

VIAS

API Reference

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Contents

1 Before You Start.....	1
1.1 Overview.....	1
1.2 Endpoints.....	1
1.3 Constraints.....	1
1.4 Concepts.....	2
2 Calling APIs.....	3
2.1 Making an API Request.....	3
2.2 Authentication.....	7
2.3 Response.....	8
3 Platform APIs.....	11
3.1 Video Center.....	11
3.1.1 Creating a Video Source.....	11
3.1.2 Modifying a Video Source.....	14
3.1.3 Deleting a Video Source.....	20
3.1.4 Obtaining Details About a Video Source.....	21
3.1.5 Obtaining Video Sources.....	26
3.1.6 Creating a Video Source Group.....	33
3.1.7 Deleting a Video Source Group.....	35
3.1.8 Updating a Video Source Group.....	36
3.1.9 Obtaining Details About a Video Source Group.....	38
3.1.10 Obtaining Video Source Groups.....	41
3.2 Task Center.....	45
3.2.1 Creating a Task.....	45
3.2.2 Starting or Stopping a Task.....	57
3.2.3 Modifying a Task.....	60
3.2.4 Obtaining Tasks.....	71
3.2.5 Deleting a Task.....	75
3.2.6 Obtaining Task Details.....	77
3.2.7 Adding a Batch Task.....	88
3.2.8 Starting or Stopping a Batch Task.....	96
3.2.9 Modifying a Batch Task.....	99
3.2.10 Deleting a Batch Task.....	107

3.2.11 Obtaining Batch Tasks.....	109
3.3 Algorithm Center.....	115
3.3.1 Deploying an Algorithm.....	115
3.3.2 Stopping Algorithm Deployment.....	117
3.3.3 Obtaining Service Details.....	119
3.3.4 Obtaining Your Algorithm Services.....	123
3.4 Operation Center.....	128
3.4.1 Creating an Edge Resource Pool.....	128
3.4.2 Deleting an Edge Resource Pool.....	131
3.4.3 Obtaining Edge Resource Pools.....	133
3.4.4 Obtaining Details About an Edge Resource Pool.....	136
4 Algorithm APIs.....	141
4.1 Edge Service APIs.....	141
4.1.1 Creating a People Flow Counting (Edge) Task.....	141
4.1.2 Creating an Intrusion Detection (Edge) task.....	158
4.1.3 Creating a Key Position On-Duty Inspection (Edge) Task.....	176
4.1.4 Creating an Abandoned Object Detection (Edge) Task.....	192
4.1.5 Creating a Crowd Density Monitoring (Edge) Task.....	209
4.1.6 Creating a Work Gear and Helmet Detection (Edge) Task.....	228
4.1.7 Creating a Smoke and Fire Detection (Edge) Task.....	243
4.1.8 Creating a Fight Detection (Edge) Task.....	259
4.1.9 Creating a Shared Bicycle Detection (Edge) Task.....	274
4.1.10 Creating an Individual Behavior Detection (Edge) Task.....	292
4.1.11 Creating an Individual Action Detection (Edge) Task.....	308
4.1.12 Creating a Mask Detection (Edge) Task.....	324
4.1.13 Creating an Abnormal Parking Detection (Edge) Task.....	339
4.1.14 Creating a Vehicle Detection (Edge) Task.....	356
4.1.15 Creating a Fire Passage Obstruction Detection (Edge) Task.....	373
4.1.16 Creating a Non-motorized Vehicle Detection (Edge) Task.....	390
4.1.17 Creating a Trash Can Anomaly Detection (Edge) Task.....	409
4.1.18 Creating a City Garbage Can Overflow Detection (Edge) Task.....	424
4.1.19 Creating a Peak Crowd Counting (Edge) Task.....	439
4.1.20 Creating a Target Attribute Recognition (Edge) Task.....	458
4.1.21 Creating an E-bike Rider Helmet Detection (Edge) Task.....	478
4.1.22 Creating an Umbrella Violation Detection (Edge) Task.....	492
4.1.23 Creating an Advertisement Violation Detection (Edge) Task.....	508
4.1.24 Creating a Messy Piles Detection (Edge) Task.....	523
4.1.25 Creating a Clothes Airing Violation Detection (Edge) Task.....	538
4.1.26 Creating a Littering Construction Waste Detection (Edge) Task.....	553
4.1.27 Creating a Missing Manhole Cover Detection (Edge) Task.....	568
4.1.28 Creating a Dynamic Manhole Cover Detection (Edge) Task.....	583
4.1.29 Creating an Urban Trash Detection (Edge) Task.....	598

4.1.30 Creating an Urban Mobile Trash Detection (Edge) Task.....	614
4.1.31 Creating an Urban Roadside Stall Detection (Edge) Task.....	628
4.1.32 Creating an Exposed Bare Soil Detection (Edge) Task.....	645
4.1.33 Creating a Wrong-Way Driving Detection (Edge) Task.....	660
4.1.34 Creating a Peak Speeding Detection (Edge) Task.....	676
4.1.35 Creating a Peak Vehicle Counting (Edge) Task.....	692
4.1.36 Creating a Vessel Intrusion Detection (Edge) Task.....	707
4.1.37 Creating a Floating Debris Detection (Edge) Task.....	722
4.1.38 Creating a Drainage Outlet Monitoring (Edge) Task.....	737
4.1.39 Creating a River Water Level Gauge Reading (Edge) Task.....	751
4.1.40 Creating a Waterlogging Detection (Edge) Task.....	768
4.2 Cloud Service APIs.....	785
4.2.1 Creating a People Flow Counting (Cloud) Task.....	785
4.2.2 Creating an Intrusion Detection (Cloud) Task.....	801
4.2.3 Creating a Key Position On-Duty Inspection (Cloud) Task.....	818
4.2.4 Creating an Abandoned Object Detection (Cloud) Task.....	834
4.2.5 Creating a Crowd Density Monitoring (Cloud) Task.....	850
4.2.6 Creating a Work Gear and Helmet Detection (Cloud) Task.....	867
4.2.7 Creating a Smoke and Fire Detection (Cloud) Task.....	881
4.2.8 Creating a Fight Detection (Cloud) Task.....	897
4.2.9 Creating a Shared Bicycle Detection (Cloud) Task.....	912
4.2.10 Creating an Individual Behavior Detection (Cloud) Task.....	929
4.2.11 Creating an Individual Action Detection (Cloud) Task.....	945
4.2.12 Creating a Mask Detection (Cloud) Task.....	961
4.2.13 Creating an Abnormal Parking Detection (Cloud) Task.....	975
4.2.14 Creating a Vehicle Detection (Cloud) Task.....	991
4.2.15 Creating a Fire Passage Obstruction Detection (Cloud) Task.....	1008
4.2.16 Creating a Non-motorized Vehicle Detection (Cloud) Task.....	1024
4.2.17 Creating a Trash Can Anomaly Detection (Cloud) Task.....	1041
4.2.18 Creating a City Garbage Can Overflow Detection (Cloud) Task.....	1055
4.2.19 Creating a Peak Crowd Counting (Cloud) Task.....	1070
4.2.20 Creating a Target Attribute Recognition (Cloud) Task.....	1090
4.2.21 Creating an E-bike Rider Helmet Detection (Cloud) Task.....	1108
4.2.22 Creating an Umbrella Violation Detection (Cloud) Task.....	1123
4.2.23 Creating an Advertisement Violation Detection (Cloud) Task.....	1137
4.2.24 Creating a Messy Piles Detection (Cloud) Task.....	1151
4.2.25 Creating a Clothes Airing Violation Detection (Cloud) Task.....	1165
4.2.26 Creating a Littering Construction Waste Detection (Cloud) Task.....	1179
4.2.27 Creating a Missing Manhole Cover Detection (Cloud) Task.....	1193
4.2.28 Creating a Dynamic Manhole Cover Detection (Cloud) Task.....	1207
4.2.29 Creating an Urban Trash Detection (Cloud) Task.....	1222
4.2.30 Creating an Urban Mobile Trash Detection (Cloud) Task.....	1237

4.2.31 Creating an Urban Roadside Stall Detection (Cloud) Task.....	1251
4.2.32 Creating an Exposed Bare Soil Detection (Cloud) Task.....	1268
4.2.33 Creating a Vessel Intrusion Detection (Cloud) Task.....	1283
4.2.34 Creating a Floating Debris Detection (Cloud) Task.....	1297
4.2.35 Creating a Drainage Outlet Monitoring (Cloud) Task.....	1311
4.2.36 Creating a River Water Level Gauge Reading (Cloud) Task.....	1325
4.2.37 Creating a Waterlogging Detection (Cloud) Task.....	1341
4.3 Public APIs.....	1356
4.3.1 Deleting a Task.....	1356
4.3.2 Obtaining Task Details.....	1358
4.3.3 This API is used to obtain tasks.....	1369
5 Alarm Information.....	1381
5.1 People Flow Counting.....	1381
5.2 Intrusion Detection.....	1385
5.3 Staff On-Duty Detection.....	1387
5.4 Abandoned Object Detection.....	1389
5.5 Crowd Density Monitoring.....	1390
5.6 Safety Suite Detection.....	1392
5.7 Fire and Smoke Detection	1394
5.8 Fight Detection.....	1396
5.9 Shared Bicycle Detection.....	1397
5.10 Individual Behavior Detection.....	1399
5.11 Individual Action Detection.....	1400
5.12 Mask Wearing Detection.....	1402
5.13 Abnormal Parking.....	1404
5.14 Vehicle Detection.....	1405
5.15 Fire Passage Obstruction Detection.....	1408
5.16 Non-motorized Vehicle Detection.....	1410
5.17 Trash Can Anomaly Detection.....	1412
5.18 Overflowing Garbage Can Detection in Cities.....	1413
5.19 Peak Crowd Counting.....	1415
5.20 Target Attribute Recognition.....	1418
5.21 E-bike Rider Helmet Detection.....	1423
5.22 Umbrella Violation Detection.....	1425
5.23 Advertisement Violation Detection.....	1426
5.24 Messy Piles Detection.....	1428
5.25 Clothes Airing Violation Detection.....	1430
5.26 Littering Construction Waste Detection.....	1431
5.27 Missing Manhole Cover Detection.....	1433
5.28 Missing Manhole Cover Detection From a Dynamic Perspective.....	1435
5.29 Urban Trash Detection.....	1436
5.30 Urban Mobile Trash Detection.....	1438

5.31 Urban Roadside Stall Detection.....	1440
5.32 Exposed Bare Soil Detection.....	1442
5.33 Wrong-Way Driving Detection.....	1443
5.34 Peak Speeding Detection.....	1445
5.35 Peak Vehicle Counting.....	1447
5.36 Vessel Intrusion Detection.....	1449
5.37 Floating Debris Detection.....	1450
5.38 Drainage Outlet Monitoring.....	1451
5.39 Water Level Gauge Reading.....	1452
5.40 Standing Water Detection.....	1455
5.41 Cyanobacteria Identification.....	1457
6 Common Parameters.....	1460
6.1 Common Algorithm Parameters.....	1460
7 Appendix.....	1462
7.1 Status Codes.....	1462
7.2 Error Codes.....	1466
7.3 Obtaining the Project ID, Account Name, and AK/SK.....	1472

1 Before You Start

1.1 Overview

VIAS applies AI technologies to the management of industrial parks, residential communities, and business parks. Utilizing technologies such as visual AI and data mining, it enables efficient video analysis in a range of campus scenarios.

1.2 Endpoints

An endpoint is the request address for calling an API. Endpoints vary depending on services and regions. For the endpoints of all services, see [Regions and Endpoints](#).

1.3 Constraints

VIAS has certain constraints and limitations, some cost-related and some technological. System-wide constraints affect all sub-services. Additionally, sub-services are subject to their respective constraints.

System-Wide Constraints

- Edge services support RTSP streams and VCN input. Cloud services support input of Industry Video Management (IVM) video streams or OBS video files.
- If the input is an OBS file, the file name extension can be **.avi**, **.wmv**, **.mpg**, **.mpeg**, **.mp4**, **.mov**, **.m4v**, or **.mkv**.
- Videos encrypted by KMS in OBS buckets are not supported.
- The size of a single video file cannot exceed 4 GB.
- Supported frame rates include 12, 24, 25, and 30 fps.
- The maximum resolution is 4096x2160 (4K). The recommended resolution is 1920x1080 (1080p).
- Decoding is supported for H.264 and H.265 videos.

Encoding Format	Resolution
H.264	720P, 1080P, 2K, 4K
H.265	720P, 1080P, 2K, 4K

1.4 Concepts

- **Account**

An account is created upon successful registration with the cloud system. The account has full access permissions for all of its cloud services and resources. It can be used to reset user passwords and grant user permissions. The account is a payment entity, which should not be used directly to perform routine management. For security purposes, create Identity and Access Management (IAM) users and grant them permissions for routine management.
- **IAM user**

An IAM user is created under an account to use cloud services. Each user has its own identity credentials (password and access keys).

An IAM user can view the account ID and user ID on the [My Credentials](#) page of the management console. The account name, username, and password will be required for API authentication.
- **Region**

A region is a physical location where a cloud service is deployed. Availability zones (AZ) in the same region can communicate with each other over an intranet but AZs in different regions cannot communicate with each other. By creating cloud resources in different regions, you can design applications to better meet customer requirements and comply with local laws and regulations.
- **Availability zone (AZ)**

An AZ contains one or more physical data centers. It has independent cooling, fire extinguishing, moisture-proof, and electricity facilities. Within an AZ, compute network, storage, and other resources are logically divided into multiple clusters. AZs within a region are interconnected using high-speed optical fibers to allow users to build cross-AZ high-availability systems.
- **Project**

A project corresponds to a region. Default projects are defined to group and physically isolate resources (including compute, storage, and network resources) across regions. Users can be granted permissions in a default project to access all resources under their accounts in the region associated with the project. For more refined access control, create subprojects under a project and purchase resources in the subprojects. Users can then be assigned permissions to access only specific resources in the subprojects.

You can obtain the project ID on the [API Credentials](#) page.

2 Calling APIs

2.1 Making an API Request

This section describes the structure of a REST API request, and calls the IAM API for **obtaining a user token** as an example. The obtained token can then be used to authenticate the calling of other APIs.

Request URI

The format of a request URI is as follows:

{URI-scheme} :// {Endpoint} / {resource-path} ? {query-string}

Table 2-1 Request URI

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.
Endpoint	Domain name or IP address of the server for the REST service endpoint. The endpoint varies depending on services in different regions. Obtain the value from Endpoints . For example, the endpoint of VIAS in region CN North-Beijing1 is iam.cn-north-1.myhuaweicloud.com .
resource-path	Access path of an API for performing a specified operation. Obtain the path from the URI of an API. For example, the resource-path of the API for obtaining a user token is /v3/auth/tokens .
query-string	Query parameter, which is optional. Ensure that a question mark (?) is included before a query parameter that is in the format of "Parameter name=Parameter value". For example, ? limit=10 indicates that a maximum of 10 data records will be displayed.

 **NOTE**

To simplify the URI display, each API is provided with only a **resource-path** and a request method. The **URI-scheme** of all APIs is HTTPS, and the endpoints of all APIs in the same region are identical.

Request Methods

HTTP-based request methods, which are also called operations or actions, specify the type of operations that you are requesting.

Table 2-2 HTTP methods

Method	Description
GET	Requests the server to return specified resources.
PUT	Requests the server to update specified resources.
POST	Requests the server to add resources or perform special operations.
DELETE	Requests the server to delete specified resources, for example, an object.
HEAD	Requests a server for the resource header.
PATCH	Requests the server to update partial content of a specified resource. If the resource is unavailable, the PATCH method is used to create a resource.

For example, in the URI for obtaining a user token, the request method is **POST**, and the request is as follows:

```
POST https://iam.cn-north-1.myhuaweicloud.com/v3/auth/tokens
```

Request Header

You can also add additional fields to a request, such as the fields required by a specified URI or an HTTP method. For example, add **Content-Type** that defines a request body type to request for the authentication information.

Table 2-3 describes the common request header fields to be added to the request.

Table 2-3 Common request header fields

Parameter	Description	Mandatory	Example
Content-type	Request body type or format. Its default value is application/json .	Yes	application/json

Parameter	Description	Mandatory	Example
Content-Length	Length of the request body, in bytes.	This parameter is mandatory for POST and PUT requests, but must be left blank for GET requests.	3495
X-Project-Id	Project ID. This parameter is used to obtain the token for each project.	No	e9993fc787d94b6c886cbaa340f9c0f4
X-Auth-Token	User token, which is a response to the API for obtaining a user token (only this API does not require authentication).	No This parameter is mandatory for token-based authentication.	N/A
X-Sdk-Date	Time when the request is sent. The time is in YYYYMMDD'T'HHMMS'Z' format. The value is the current Greenwich Mean Time (GMT) of the system.	No Mandatory for AK/SK-based authentication, but not required for PKI token-based authentication	20190307T101459Z
Authorization	Signature authentication information. The value is obtained from the request signature result and is required when the AK and SK are used to encrypt the signature. Type: string Default value: none	No Mandatory for AK/SK-based authentication	SDK-HMAC-SHA256 Credential=ZIRRKMT WPTQFQI1WKNKB/ 20150907//ec2/ sdk_request, SignedHeaders=content-type;host;x-sdk-date, Signature=55741b610f3c9fa3ae40b5a8021ebf7ebc2a28a603fc62d25cb3bfe6608e1994

Parameter	Description	Mandatory	Example
Host	Information about the requested server. The value can be obtained from the URL of the service API. The value is <i>hostname[:port]</i> . If the port number is not specified, the default port is used. The default port number for https is 443 .	No Mandatory for AK/SK-based authentication	code.test.com or code.test.com:443

 **NOTE**

In addition to supporting authentication using tokens, public cloud APIs support authentication using AK/SK, which uses SDKs to sign a request. During the signature, the **Authorization** (signature authentication) and **X-Sdk-Date** (time when a request is sent) headers are automatically added in the request. For more information about AK/SK-based authentication, see [AK/SK Signing and Authentication Guide](#).

The API for obtaining a user token does not require authentication. Therefore, this API only requires adding the **Content-Type** field. The request with the added **Content-Type** header is as follows:

```
POST https://iam.cn-north-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

Request Body

The body of a request is often sent in a structured format as specified in **Content-Type**. The request body transfers content other than the request header. If the request body contains Chinese characters, these characters must be encoded in UTF-8.

The request body varies between APIs. Some APIs do not require the request body, such as the APIs requested using the **GET** and **DELETE** methods.

In the case of the API used to [obtain a user token](#), the request parameters and parameter description can be obtained from the API request. The following provides an example request with a body included.

Replace *username*, *domainname*, and ******* with the actual username, account name, and login password, respectively. *cn-north-1* is the project name. For details, see [Obtaining Account, IAM User, and Project Information](#).

 **NOTE**

scope specifies where a token takes effect. Its value can be **project** or **domain**. In the preceding example, the value of **scope** is **project**, indicating that the token can access only resources of the specified project. If the value of **scope** is **domainname**, the token can access all resources of the specified account. For details, see [Obtaining a User Token](#).

```
POST https://iam.cn-north-1.myhuaweicloud.com/v3/auth/tokens
Content-Type:application/json
```

```
{
  "auth": {
    "identity": {
      "methods": ["password"],
      "password": {
        "user": {
          "name": "username", //Replace it with the actual username.
          "password": "*****", //Replace it with the actual password.
          "domain": {
            "name": "domiannname" //Replace it with the actual account name.
          }
        }
      }
    },
    "scope": {
      "project": {
        "name": "cn-north-1" //Replace it with the actual project name to obtain the token of the specified
project.
      }
    }
  }
}
```

If all data required for the API request is available, you can send the request to call the API through curl, Postman, or coding. If you choose to use Postman, version 7.24.0 is recommended.

In the response to the API used to [obtain a user token](#), **x-subject-token** is the desired user token. This token can then be used to authenticate the calling of other APIs.

2.2 Authentication

Requests for calling an API can be authenticated using either of the following methods:

- Token-based authentication: Requests are authenticated using a token.
- AK/SK-based authentication: Requests are encrypted using an AK/SK.

Token-based Authentication

NOTE

The validity period of a token is 24 hours. When using a token for authentication, you may cache it so there is no need to call the IAM API frequently.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to a request to get permissions for calling the API.

When calling the API to [obtain a user token](#), you must set **auth.scope** in the request body to **project**. The following is a request example:

```
{
  "auth": {
    "identity": {
      "methods": ["password"],
      "password": {
        "user": {
          "name": "username", //Replace it with the actual username.
          "password": "*****", //Replace it with the actual password.
          "domain": {
```

```
    "name": "domiannname" //Replace it with the actual account name.
  }
}
},
"scope": {
  "project": {
    "name": "cn-north-1" //Replace it with the actual project name to obtain the token of the specified
project.
  }
}
}
```

After obtaining the token, add the **X-Auth-Token** header in a request to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, add **X-Auth-Token: ABCDEFJ....** in a request as follows:

```
GET https://iam.cn-north-1.myhuaweicloud.com/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK-based Authentication

NOTE

AK/SK-based authentication supports API requests with a body not larger than 12 MB. For API requests with a larger body, token-based authentication is recommended.

In AK/SK-based authentication, the AK/SK is used to sign requests and the signature is then added to the requests for authentication.

- AK: access key ID, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- SK: secret access key used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

In AK/SK-based authentication, you can use the AK/SK to sign requests based on the signature algorithm or use a dedicated signing SDK to sign requests. For details about how to sign requests and use the signing SDK, see [AK/SK Signing and Authentication Guide](#).

NOTICE

The signing SDK is only used for signing requests and is different from the SDKs provided by services.

2.3 Response

After sending a request, you will receive a response, including the status code, response header, and response body.

Status Code

A status code is a group of digits, ranging from 1xx to 5xx. It indicates the status of a request. For more information, see [Status Codes](#).

If status code **201** is returned for calling the API used to **obtain a user token**, the request is successful.

Response Header

Similar to a request, a response also has a header, for example, **Content-Type**.

Table 2-4 Common response header fields

Parameter	Description	Mandatory
Content-Type	Media type of the message body sent to a receiver Type: string Default value: application/json; charset=UTF-8	Yes
X-request-id	This field carries the request ID for task tracing. Type: string. request_id-timestamp-hostname (request_id is the UUID generated on the server. timestamp indicates the current timestamp, and hostname is the name of the server that processes the current API.) Default value: none	No
X-ratelimit	This field carries the total number of flow control requests. Type: integer Default value: none	No
X-ratelimit-used	This field carries the number of remaining requests. Type: integer Default value: none	No
X-ratelimit-window	This field carries the flow control unit. Type: string. The unit is minute, hour, or day. Default value: hour	No

The following figure shows the response header for the API used to **obtain a user token**

x-subject-token is the desired user token. This token can then be used to authenticate the calling of other APIs.

Figure 2-1 Header of the response to the request for obtaining a user token

```

connection → keep-alive

content-type → application/json

date → Tue, 12 Feb 2019 06:52:13 GMT

server → Web Server

strict-transport-security → max-age=31536000; includeSubdomains;

transfer-encoding → chunked

via → proxy A

x-content-type-options → nosniff

x-download-options → noopen

x-frame-options → SAMEORIGIN

x-iam-trace-id → 218d45ab-d674-4995-af3a-2d0255ba41b5

x-subject-token
→ MIIYXQYJKoZIhvcNAQcCoIIYTCCEGoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOansiZXhwaXJlc19hdCI6IiwMTktMDItMTNUMD
fj3KJs6YgKnpVNRbW2eZ5eb785ZOkajACgkIQ01wi4JIGzrpd18LGXK5bdfq4lqHCYb8P4NaYONYeJcAgz/VeFYtLWT1GSO0zxKZmlQHq82HBqHdglZO9fuEbL5dMhdavj+33wEI
xHRCE9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FruooL6jggIFkNPQuFSOU8+uSsttVwRtnfSc+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUUVhVpxk8pxiX1wTEboX-
RzT6MUbpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==

x-xss-protection → 1; mode=block;

```

Response Body

The body of a response is often returned in a structured format as specified in **Content-Type**. The response body transfers content except the response header.

For the API used to **obtain a user token**, the response body is as follows:

```

{
  "token": {
    "expires_at": "2019-02-13T06:52:13.855000Z",
    "methods": [
      "password"
    ],
    "catalog": [
      {
        "endpoints": [
          {
            "region_id": "cn-north-1",
            .....

```

If an error occurs during API calling, an error code and a message will be displayed. The following shows an error response body.

```

{
  "error_msg": "The API does not exist or has not been publish in the environment",
  "error_code": "IVA.0101",
  "request_id": "8ec47b9ec686af9976bed342d5cd5e06"
}

```

In the error response body, **error_code** is an error code, and **error_msg** provides information about the error. For more information, see **Error Codes**.

3 Platform APIs

3.1 Video Center

3.1.1 Creating a Video Source

Function

This API is used to create a video source.

URI

POST /v2/{project_id}/source

Table 3-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name . Maximum: 64

Request Parameters

Table 3-2 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 3-3 Request body parameters

Parameter	Mandatory	Type	Description
video_source_name	Yes	String	Video source name. The value can contain only letters, digits, spaces, and the following special characters: .-_(). It cannot start or end with a space. Minimum: 1 Maximum: 100
access_type	Yes	String	Access type, which can be cloud or edge .
type	Yes	String	Type: obs, vcn, url, restful, and camera
latitude	No	String	Latitude of the video source. The value ranges from -90.00000 to 90.00000.
longitude	No	String	Longitude of the video source. The value ranges from -180.00000 to 180.00000.
video_group_ids	No	Array of strings	IDs of all video source groups. An ID is a string of 4 to 36 characters consisting of only lowercase letters, digits, hyphens (-), and underscores (_).

Parameter	Mandatory	Type	Description
type_config	Yes	String	XML file of video source configuration information URL format: <type>URL</type><config> <URL_ADDRESS></URL_ADDRESS> </config> VCN format: <type>VCN</type> <config> <DATA_SOURCE_ID></DATA_SOURCE_ID> <STREAM_TYPE></STREAM_TYPE> <IP></IP> <PORT></PORT> <USER_NAME></USER_NAME> <PASSWORD></PASSWORD> </config> RESTful format: <type>RESTFUL</type> <config> <HTTP_CHECK></HTTP_CHECK> <URL></URL> <RTSP_URL></RTSP_URL> </config> Camera format: <type>CAMERA</type> <config> <EDGE_CAMERA_ID></EDGE_CAMERA_ID> </config> Maximum: 1024
tag	No	Array of strings	Video source tag. A maximum of four tags can be selected. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum length: 1 character Maximum length: 10 characters

Response Parameters

Status code: 200

Table 3-4 Response body parameters

Parameter	Type	Description
video_source_id	String	Video source ID

Example Requests

Request body for creating a video source

```
/v2/{project_id}/source/sources/{video_source_id}

{
  "video_source_name": "url_test",
  "access_type": "cloud",
  "type": "url",
  "longitude": "",
  "latitude": "",
  "tag": [ ],
  "video_group_ids": [ ],
  "type_config": "<type_config>    <url_address>rtsp://12.12.12.12:333</url_address>    </type_config>"
}
```

Example Responses

Status code: 200

Video source information

```
{
  "video_source_id": "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxx"
}
```

Status Codes

Status Code	Description
200	Video source information

Error Codes

See [Error Codes](#).

3.1.2 Modifying a Video Source

Function

This API is used to modify video sources.

URI

PUT /v2/{project_id}/source/{video_source_id}

Table 3-5 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name . Maximum: 64
video_source_id	Yes	String	ID of a created video source. The value is a string of 4 to 36 characters consisting of only lowercase letters, digits, hyphens (-), and underscores (_). Maximum: 36

Request Parameters

Table 3-6 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 3-7 Request body parameters

Parameter	Mandatory	Type	Description
video_source_name	Yes	String	Video source name. The value can contain only letters, digits, spaces, and the following special characters: .-_(). It cannot start or end with a space. Minimum: 0 Maximum: 100
latitude	No	String	Latitude of the video source. The value ranges from -90.00000 to 90.00000.
longitude	No	String	Longitude of the video source. The value ranges from -180.00000 to 180.00000.

Parameter	Mandatory	Type	Description
type_config	Yes	String	XML file of video source configuration information URL format: <type>URL</type> <config> <URL_ADDRESS></URL_ADDRESS> </config> VCN format: <type>VCN</type> <config> <DATA_SOURCE_ID></DATA_SOURCE_ID> <STREAM_TYPE></STREAM_TYPE> <IP></IP> <PORT></PORT> <USER_NAME></USER_NAME> <PASSWORD></PASSWORD> </config> RESTful format: <type>RESTFUL</type> <config> <HTTP_CHECK></HTTP_CHECK> <URL></URL> <RTSP_URL></RTSP_URL> </config> Camera format: <type>CAMERA</type> <config> <EDGE_CAMERA_ID></EDGE_CAMERA_ID> </config> Maximum: 1024
tag	No	Array of strings	Video source tag. A maximum of four tags can be selected. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum length: 1 character Maximum length: 10 characters

Response Parameters

Status code: 200

Table 3-8 Response body parameters

Parameter	Type	Description
video_source_name	String	Video source name. The value can contain only letters, digits, spaces, and the following special characters: .-_(). It cannot start or end with a space. Minimum length: 1 character Maximum length: 100 characters

Parameter	Type	Description
access_type	String	Access type, which can be cloud or edge .
status	VideoSourceStatusInfoDto object	Data source status
type	String	Type: obs, vcn, url, restful, and camera
latitude	String	Latitude of the video source. The value ranges from -90.00000 to 90.00000.
longitude	String	Longitude of the video source. The value ranges from -180.00000 to 180.00000.
create_at	Long	Creation time
type_config	String	XML file of video source configuration information
video_packages	Array of VideoGroupInfoDto objects	Group to which the video source belongs
service_config_templates	Array of VideoServiceConfigTemplateDto objects	Algorithm template body
stream_path	String	Stream address
image	String	Base64-encoded video source snapshot
tag	Array of strings	Video source tag. A maximum of four tags can be selected. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum length: 1 character Maximum length: 10 characters
scene_recommend	Array of strings	Tags recommended by an intelligent algorithm
video_source_quality	Array of strings	Video source quality. Blurry : blurry image; ColorDistortion : color distortion; AbnormalLight : abnormal image light; ScreenSplash : image artifact; ScreenJitter : image jitter; ScreenMovement : image movement; SceneUpheaval : image upheaval; ScreenFreeze : image freezing; BlackScreen : black screen; SnowNoise : static noise; Occlude : blocking; GrayScreen : gray screen; ScreenSmudge : screen smudge

Table 3-9 VideoSourceStatusInfoDto

Parameter	Type	Description
status	String	Video source status
name	String	Status name
level	String	Status level (used for color matching of frontend images)

Table 3-10 VideoGroupInfoDto

Parameter	Type	Description
video_group_id	String	ID of the group to which the video source belongs
video_group_name	String	Name of the group to which the video source belongs
description	String	Description of the group to which the video source belongs
access_type	String	Access type, which can be cloud or edge .
create_at	Long	Creation time
modify_at	Long	Modification time
num_video_source	Integer	Number of video resources
group_status	GroupStatusDto object	Video source status
num_batch_task	Integer	Number of configured batch tasks

Table 3-11 GroupStatusDto

Parameter	Type	Description
num_online	Integer	Number of online video sources
num_exception	Integer	Number of abnormal video sources
num_offline	Integer	Number of offline video sources

Table 3-12 VideoServiceConfigTemplateDto

Parameter	Type	Description
name	String	Algorithm service name
roi	String	Public ROI
serviceConfig	String	Common configuration of algorithm services
createAt	Long	Creation time
modifyAt	Long	Modification time
numTask	Integer	Number of running algorithms

Example Requests

Request body for modifying a video source

```
/v2/{project_id}/source/{video_source_id}
{
  "video_source_name": "url_test",
  "access_type": "cloud",
  "type": "url",
  "longitude": "",
  "latitude": "",
  "tag": [ "1" ],
  "video_group_ids": [ ],
  "type_config": "<type_config>    <url_address>rtsp://12.12.12.12:333</url_address>    </type_config>"
}
```

Example Responses

Status code: 200

Response body for updating a video source

```
{
  "video_source_name": "url_test",
  "access_type": "cloud",
  "status": {
    "status": "Online",
    "name": "Online",
    "level": "1"
  },
  "type": "url",
  "latitude": "",
  "longitude": "",
  "create_at": 1680772763191,
  "type_config": "<type_config>    <url_address>rtsp://12.12.12.12:333</url_address>    </type_config>",
  "stream_path": "rtsp://12.12.12.12:333",
  "tag": [ "1" ],
  "device_id": "1680772763191",
  "scene_recommend": [ ],
  "video_source_quality": [ ]
}
```

Status Codes

Status Code	Description
200	Response body for updating a video source

Error Codes

See [Error Codes](#).

3.1.3 Deleting a Video Source

Function

This API is used to delete video sources.

URI

DELETE /v2/{project_id}/source/{video_source_id}

Table 3-13 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name . Maximum: 64
video_source_id	Yes	String	ID of a created video source. The value is a string of 4 to 36 characters consisting of only lowercase letters, digits, hyphens (-), and underscores (_). Maximum: 36

Request Parameters

Table 3-14 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

None

Example Requests

This request is used to delete the video source whose ID is *{video_source_id}*.

```
/v2/{project_id}/source/{video_source_id}
```

```
https://{endpoint}/v2/{project_id}/source/{video_source_id}
```

Example Responses

Status code: 200

Operation successful

```
true
```

Status Codes

Status Code	Description
200	Operation successful

Error Codes

See [Error Codes](#).

3.1.4 Obtaining Details About a Video Source

Function

This API is used to obtain details about a video source.

URI

```
GET /v2/{project_id}/source/sources/{video_source_id}
```

Table 3-15 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name . Maximum: 64

Parameter	Mandatory	Type	Description
video_source_id	Yes	String	ID of a created video source. The value is a string of 4 to 36 characters consisting of only lowercase letters, digits, hyphens (-), and underscores (_). Maximum: 36

Request Parameters

Table 3-16 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-17 Response body parameters

Parameter	Type	Description
video_source_name	String	Video source name. The value can contain only letters, digits, spaces, and the following special characters: .-_(). It cannot start or end with a space. Minimum length: 1 character Maximum length: 100 characters
access_type	String	Access type, which can be cloud or edge .
status	VideoSourceStatusInfoDto object	Data source status
type	String	Type: obs, vcn, url, restful, and camera
latitude	String	Latitude of the video source. The value ranges from -90.00000 to 90.00000.
longitude	String	Longitude of the video source. The value ranges from -180.00000 to 180.00000.
create_at	Long	Creation time

Parameter	Type	Description
type_config	String	XML file of video source configuration information
video_packages	Array of VideoGroupInfoDto objects	Group to which the video source belongs
service_config_templates	Array of VideoServiceConfigTemplateDto objects	Algorithm template body
stream_path	String	Stream address
image	String	Base64-encoded video source snapshot
tag	Array of strings	Video source tag. A maximum of four tags can be selected. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum length: 1 character Maximum length: 10 characters
scene_recommend	Array of strings	Tags recommended by an intelligent algorithm
video_source_quality	Array of strings	Video source quality. Blurry : blurry image; ColorDistortion : color distortion; AbnormalLight : abnormal image light; ScreenSplash : image artifact; ScreenJitter : image jitter; ScreenMovement : image movement; SceneUpheaval : image upheaval; ScreenFreeze : image freezing; BlackScreen : black screen; SnowNoise : static noise; Occlude : blocking; GrayScreen : gray screen; ScreenSmudge : screen smudge

Table 3-18 VideoSourceStatusInfoDto

Parameter	Type	Description
status	String	Video source status
name	String	Status name
level	String	Status level (used for color matching of frontend images)

Table 3-19 VideoGroupInfoDto

Parameter	Type	Description
video_group_id	String	ID of the group to which the video source belongs
video_group_name	String	Name of the group to which the video source belongs
description	String	Description of the group to which the video source belongs
access_type	String	Access type, which can be cloud or edge .
create_at	Long	Creation time
modify_at	Long	Modification time
num_video_source	Integer	Number of video resources
group_status	GroupStatusDto object	Video source status
num_batch_task	Integer	Number of configured batch tasks

Table 3-20 GroupStatusDto

Parameter	Type	Description
num_online	Integer	Number of online video sources
num_exception	Integer	Number of abnormal video sources
num_offline	Integer	Number of offline video sources

Table 3-21 VideoServiceConfigTemplateDto

Parameter	Type	Description
name	String	Algorithm service name
roi	String	Public ROI
serviceConfig	String	Common configuration of algorithm services
createAt	Long	Creation time
modifyAt	Long	Modification time
numTask	Integer	Number of running algorithms

Status code: 400

Table 3-22 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-23 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to obtain video source details such as the video source name, access type, and status.

```
v2/{project_id}/source/sources/{video_source_id}
https://{endpoint}/v2/{project_id}/source/sources/{video_source_id}
```

Example Responses

Status code: 200

Video source details

```
{
  "video_source_name": "url_test",
```



```

"access_type": "cloud",
"status": {
  "status": "Online",
  "name": "Online",
  "level": "1"
},
"type": "url",
"latitude": "",
"longitude": "",
"create_at": 1680772763191,
"type_config": "<type_config>    <url_address>rtsp://12.12.12.12:333</url_address>    </type_config>",
"video_packages": [],
"service_config_templates": [],
"stream_path": "rtsp://12.12.12.12:333",
"tag": [],
"device_id": "1680772763191",
"scene_recommend": [],
"video_source_quality": []
}

```

Status Codes

Status Code	Description
200	Video source details
400	Invalid parameter
500	Internal error

Error Codes

See [Error Codes](#).

3.1.5 Obtaining Video Sources

Function

This API is used to obtain video sources.

URI

GET /v2/{project_id}/source/sources

Table 3-24 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name . Maximum: 64

Table 3-25 Query Parameters

Parameter	Mandatory	Type	Description
scope	No	String	Fuzzy search parameter, which is used to search for a video source by name. This parameter is optional. Minimum: 0 Maximum: 255
scope_name	No	String	Field name of the fuzzy search parameter, which can be source_name or group_name . This parameter is optional. Default: source_name Maximum: 11
status	No	Array	Video source status. The value can be 1 (online), 2 (offline), or 9 (abnormal). This parameter is optional.
type	No	Array	Type: obs, vcn, url, restful, camera, and ivm
video_group_id	No	Array	Video source group, which is optional. If this parameter is input, the value must match the regular expression ^[0-9a-zA-Z-]{1,36}\$.
sort_name	No	String	Sorting option. Options: create_at , num_task , and num_template . This parameter is optional. Default: create_at
order_by	No	String	Sort order. This parameter is optional. The records are displayed in descending order by default. Default: desc
is_paged	No	Boolean	Whether to display records on different pages Default: false

Parameter	Mandatory	Type	Description
page_size	No	Integer	Number of records displayed on each page Minimum: 5 Maximum: 200 Default: 10
page_num	No	Integer	Page number Minimum: 1 Maximum: 100000 Default: 1
access_type	No	Array	Access type
platform_name	No	String	Platform name Minimum: 0 Maximum: 100
tag	No	String	Tag Minimum: 0 Maximum: 255

Request Parameters

Table 3-26 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-27 Response body parameters

Parameter	Type	Description
video_source_number	Integer	Number of video resources
total_number	Integer	Total number of video sources

Parameter	Type	Description
quota_number	Integer	Video source quota
video_source_list	Array of ListVideoSourceInfoDto objects	Video source list

Table 3-28 ListVideoSourceInfoDto

Parameter	Type	Description
video_source_id	String	ID of a created video source
video_source_name	String	Video source name. The value can contain only letters, digits, spaces, and the following special characters: .-_(). It cannot start or end with a space. Minimum length: 1 character Maximum length: 100 characters
status	VideoSourceStatusInfoDto object	Video source status
access_type	String	Access type, which can be cloud or edge .
type	String	Type: obs, vcn, url, restful, and camera
latitude	String	Latitude of the video source. The value ranges from -90.00000 to 90.00000.
longitude	String	Longitude of the video source. The value ranges from -180.00000 to 180.00000.
create_at	Long	Creation time
video_packages	Array of VideoGroupInfoDto objects	Group to which the video source belongs
num_tasks	Integer	Number of running algorithm tasks using the video source
num_service_config_templates	Integer	Number of algorithm service configuration templates

Parameter	Type	Description
type_config	String	XML file of video source configuration information URL format: URL <DATA_SOURCE_ID></DATA_SOURCE_ID> <STREAM_TYPE></STREAM_TYPE> <USER_NAME></USER_NAME> RESTful format: RESTFUL <HTTP_CHECK></HTTP_CHECK> <RTSP_URL></RTSP_URL> Camera format: CAMERA <EDGE_CAMERA_ID></EDGE_CAMERA_ID>
tag	Array of strings	Video source tag. A maximum of four tags can be selected. Only letters, digits, hyphens (-), and underscores (_) are allowed. Minimum length: 1 character Maximum length: 10 characters
stream_path	String	Stream address
scene_recommend	Array of strings	Tags recommended by an intelligent algorithm
video_source_quality	Array of strings	Video source quality. Blurry : blurry image; ColorDistortion : color distortion; AbnormalLight : abnormal image light; ScreenSplash : image artifact; ScreenJitter : image jitter; ScreenMovement : image movement; SceneUpheaval : image upheaval; ScreenFreeze : image freezing; BlackScreen : black screen; SnowNoise : static noise; Occlude : blocking; GrayScreen : gray screen; ScreenSmudge : screen smudge

Table 3-29 VideoSourceStatusInfoDto

Parameter	Type	Description
status	String	Video source status
name	String	Status name
level	String	Status level (used for color matching of frontend images)

Table 3-30 VideoGroupInfoDto

Parameter	Type	Description
video_group_id	String	ID of the group to which the video source belongs
video_group_name	String	Name of the group to which the video source belongs
description	String	Description of the group to which the video source belongs
access_type	String	Access type, which can be cloud or edge .
create_at	Long	Creation time
modify_at	Long	Modification time
num_video_source	Integer	Number of video resources
group_status	GroupStatusDto object	Video source status
num_batch_task	Integer	Number of configured batch tasks

Table 3-31 GroupStatusDto

Parameter	Type	Description
num_online	Integer	Number of online video sources
num_exception	Integer	Number of abnormal video sources
num_offline	Integer	Number of offline video sources

Status code: 400

Table 3-32 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1

Parameter	Type	Description
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-33 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to obtain all video sources under an account.

```
v2/{project_id}/source/sources
```

```
https://{endpoint}/v2/{project_id}/source/sources?  
is_paged=true&page_size=10&page_num=1&scope_name=source_name
```

Example Responses

Status code: 200

Response body for obtaining video sources

```
{
  "video_source_number" : 230,
  "total_number" : 230,
  "quota_number" : 5000,
  "video_source_list" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx",
    "video_source_name" : "url_test",
    "status" : {
      "status" : "Online",
      "name" : "Online",
      "level" : "1"
    }
  },
  "access_type" : "cloud",
  "type" : "url",
  "latitude" : "",
  "longitude" : "",
  "create_at" : 1680772763191,
```

```

"video_packages" : [ ],
"num_tasks" : 0,
"num_service_config_templates" : 0,
"type_config" : "<type_config>    <url_address>rtsp://12.12.12.12:333</url_address>    </type_config>",
"tag" : [ ],
"stream_path" : "rtsp://12.12.12.12:333",
"device_id" : "1680772763191",
"scene_recommend" : [ ],
"video_source_quality" : [ ]
} ]
}

```

Status Codes

Status Code	Description
200	Response body for obtaining video sources
400	Invalid parameter
500	Internal error

Error Codes

See [Error Codes](#).

3.1.6 Creating a Video Source Group

Function

This API is used to create video source groups.

URI

POST /v2/{project_id}/video-group

Table 3-34 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name . Maximum: 64

Request Parameters

Table 3-35 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 3-36 Request body parameters

Parameter	Mandatory	Type	Description
video_group_name	Yes	String	Video source group name. The value is a string of 1 to 20 characters consisting of only letters and digits. Maximum: 20
description	No	String	Video source group description Maximum: 100
access_type	Yes	String	Access type. The value can only be cloud or edge . Maximum: 5
video_source_ids	No	Array of strings	Video source IDs. An ID is a string of 4 to 36 characters consisting of lowercase letters, digits, hyphens (-), and underscores (_).

Response Parameters

Status code: 200

Table 3-37 Response body parameters

Parameter	Type	Description
video_group_id	String	Video source group ID

Example Requests

Request body for creating a video source group

```
/v2/{project_id}/video-group
```

```
{
  "video_source_ids" : [ "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxx" ],
  "video_group_name" : "test000",
  "description" : "",
  "access_type" : "cloud"
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "video_group_id" : "a9334780-a53c-454e-a3c1-259c54678ec1"
}
```

Status Codes

Status Code	Description
200	Operation successful

Error Codes

See [Error Codes](#).

3.1.7 Deleting a Video Source Group

Function

This API is used to delete video source groups.

URI

DELETE /v2/{project_id}/video-group/{video_group_id}

Table 3-38 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
video_group_id	Yes	String	ID of a video source group. The value is a string of 4 to 36 characters consisting of only lowercase letters, digits, hyphens (-), and underscores (_).

Request Parameters

Table 3-39 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

None

Example Requests

This request is used to delete the video source group whose ID is **{video_group_id}**.

```
/v2/{project_id}/video-group/{video_group_id}
```

```
https://{endpoint}/v2/{project_id}/video-group/{video_group_id}
```

Example Responses

None

Status Codes

Status Code	Description
200	The video source group has been deleted.

Error Codes

See [Error Codes](#).

3.1.8 Updating a Video Source Group

Function

This API is used to modify a video source group.

URI

```
PUT /v2/{project_id}/video-group/{video_group_id}
```

Table 3-40 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
video_group_id	Yes	String	ID of a created video source group. The value is a string of 4 to 36 characters consisting of only lowercase letters, digits, hyphens (-), and underscores (_).

Request Parameters

Table 3-41 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 3-42 Request body parameters

Parameter	Mandatory	Type	Description
video_group_name	No	String	Name of a video source group. If this parameter is not input, the name is not changed. The name is a string of 1 to 20 characters consisting of hyphens (-), underscores (_), letters, and digits. Minimum: 1 Maximum: 20
description	No	String	Description. If this parameter is not input, the description is not modified. Maximum: 100

Parameter	Mandatory	Type	Description
video_source_ids	Yes	Array of strings	IDs of video sources in a group. The number of IDs must range from 1 to 50. Each ID can contain only lowercase letters, digits, hyphens (-), and underscores (_). The length range is [4, 36]. Array Length: 1 - 50

Response Parameters

None

Example Requests

Request body for modifying a video source group

```
/v2/{project_id}/video-group/{video_group_id}

{
  "video_source_ids": [ "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx", "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx" ],
  "video_group_name": "test000",
  "description": ""
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Operation successful

Error Codes

See [Error Codes](#).

3.1.9 Obtaining Details About a Video Source Group

Function

This API is used to obtain details about a video source group.

URI

GET /v2/{project_id}/video-group/{video_group_id}

Table 3-43 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
video_group_id	Yes	String	ID of a video source group. The value is a string of 4 to 36 characters consisting of only lowercase letters, digits, hyphens (-), and underscores (_).

Request Parameters

Table 3-44 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-45 Response body parameters

Parameter	Type	Description
video_group_id	String	ID of the group to which the video source belongs
video_group_name	String	Name of the group to which the video source belongs
description	String	Description of the group to which the video source belongs
access_type	String	Access type, which can be cloud or edge .
create_at	Long	Creation time
modify_at	Long	Modification time
num_video_source	Integer	Number of video resources

Parameter	Type	Description
group_status	GroupStatus Dto object	Video source status
num_batch_task	Integer	Number of configured batch tasks

Table 3-46 GroupStatusDto

Parameter	Type	Description
num_online	Integer	Number of online video sources
num_exception	Integer	Number of abnormal video sources
num_offline	Integer	Number of offline video sources

Example Requests

This request is used to obtain video source group details, including the group name, access type, and video sources in the group.

```
/v2/{project_id}/video-group/{video_group_id}
```

```
https://{endpoint}/v2/{project_id}/video-group/{video_group_id}
```

Example Responses

Status code: 200

Video source group information

```
{
  "video_group_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxxx",
  "video_group_name": "test000",
  "description": "",
  "access_type": "cloud",
  "create_at": 1680773327730,
  "modify_at": 1680773463291,
  "num_video_source": 2,
  "group_status": {
    "num_online": 2,
    "num_exception": 0,
    "num_offline": 0
  },
  "num_batch_task": 0
}
```

Status Codes

Status Code	Description
200	Video source group information

Error Codes

See [Error Codes](#).

3.1.10 Obtaining Video Source Groups

Function

This API is used to obtain video source groups.

URI

GET /v2/{project_id}/video-group/groups

Table 3-47 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name . Maximum: 64

Table 3-48 Query Parameters

Parameter	Mandatory	Type	Description
sort_name	No	String	Sorting option, which is optional. The value can be create_at , modify_at , num_video_source , or num_task . Default: create_at
order_by	No	String	Sort order, which is optional. The value can be desc or asc . The default value is desc . Default: desc

Parameter	Mandatory	Type	Description
is_paged	No	Boolean	Whether to display records on different pages Default: false
page_size	No	Integer	Number of records displayed on each page Minimum: 5 Maximum: 200 Default: 10
page_num	No	Integer	Page number Minimum: 1 Maximum: 100000 Default: 1
name	No	String	Fuzzy search parameter, which is used to search for a video source group by group name Maximum: 20
status	No	String	Status for filtering. Options: 1 , 2 , and 9 .
access_type	No	Array	Access type used for filtering. The options include cloud and edge . Multiple options can be selected.
has_task	No	Boolean	Whether the video source has been used in a batch task Default: false
type	No	Array	Video source type for filtering. Options: obs , vcn , url , restful , and camera

Request Parameters

Table 3-49 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-50 Response body parameters

Parameter	Type	Description
video_group_number	Integer	Number of groups
total_number	Integer	Total number of video source groups
quota_number	Integer	Maximum number of video source groups
video_group_list	Array of VideoGroupListInfoDto objects	Group list

Table 3-51 VideoGroupListInfoDto

Parameter	Type	Description
video_group_id	String	ID of a video source group
video_group_name	String	Name of a video source group
num_video_source	Integer	Number of video resources
group_status	GroupStatusDto object	Status of video sources in a group
access_type	String	Access type
create_at	Long	Creation time
modify_at	Long	Last modification time
num_batch_task	Integer	Number of configured batch tasks
type	String	Type of video sources in a group

Table 3-52 GroupStatusDto

Parameter	Type	Description
num_online	Integer	Number of online video sources

Parameter	Type	Description
num_exception	Integer	Number of abnormal video sources
num_offline	Integer	Number of offline video sources

Example Requests

This request is used to obtain all video source groups under an account.

```
/v2/{project_id}/videoGroup/groups?is_paged=true&page_size=10&page_num=1
```

```
https://{endpoint}/v2/{project_id}/videoGroup/groups?is_paged=true&page_size=10&page_num=1
```

Example Responses

Status code: 200

Response body for obtaining video source groups

```
{
  "video_group_number": 23,
  "total_number": 23,
  "quota_number": 200,
  "video_group_list": [
    {
      "video_group_id": "a9334780-a53c-454e-a3c1-259c54678ec1",
      "video_group_name": "test000",
      "num_video_source": 2,
      "group_status": {
        "num_online": 2,
        "num_exception": 0,
        "num_offline": 0
      },
      "access_type": "cloud",
      "create_at": 1680773327730,
      "modify_at": 1680773463291,
      "num_batch_task": 0,
      "type": "restful"
    }
  ]
}
```

Status Codes

Status Code	Description
200	Response body for obtaining video source groups

Error Codes

See [Error Codes](#).

3.2 Task Center

3.2.1 Creating a Task

Function

This API is used to create tasks.

URI

POST /v2/{project_id}/services/{service_name}/tasks

Table 3-53 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
service_name	Yes	String	Service API name Minimum: 1 Maximum: 100

Request Parameters

Table 3-54 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 3-55 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Task name. It can contain up to 100 characters and can include letters, digits, hyphens (-), and underscores (_).

Parameter	Mandatory	Type	Description
description	No	String	Task description, which is optional. Enter a maximum of 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a task
output	Yes	TaskOutput object	Output configuration of a task
config	No	TaskServiceConfig object	Task configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9.]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save as a template Default: false
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 3-56 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The value can be weekly , indicating that the task is executed every week.

Parameter	Mandatory	Type	Description
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled tasks. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Currently, the system does not support this parameter. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly task.

Table 3-57 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge jobs) vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. The outputs of tasks whose input type is obs, url, edgcamera, or restful can be sent to webhook.</p> <p>Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies depending on the input type. Multiple inputs are allowed during creation, but only one input is allowed for update. If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0</p> <p>If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0</p> <p>If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA }</p> <p>If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkjushdgdksjshlmhscjsckjhdbnk, stream_type: 1, index: 0</p> <p>If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0.</p> <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server. This parameter is mandatory only when the input type is vcn .

Table 3-58 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 64
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .

Parameter	Mandatory	Type	Description
stream_type	No	Integer	Stream type used for analysis. This parameter is mandatory when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false . Default: false

Table 3-59 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of a VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of a VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.

Parameter	Mandatory	Type	Description
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression <code>^.{1,1000}\$</code> .

Table 3-60 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to set the output mode to Event Center . true or 1 indicates yes. false indicates no. Default: false

Table 3-61 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is ^(?![/\s])(?!./)([^\s?*"<>]{0,1023})(?<![\s])\$. Maximum: 1023

Parameter	Mandatory	Type	Description
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 3-62 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	Name of a DIS stream. This parameter is mandatory when the DIS output type is used. The verification rule is ^[-A-Za-z0-9_]{1,64}\$. Maximum: 64
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. For example, in the API for creating edge face-related tasks, the output contains dataCategory , with a value range of [FacelImage, OriginImage], indicating whether to send the face image or original image. Array Length: 0 - 10

Table 3-63 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 3-64 TaskServiceConfig

Parameter	Mandatory	Type	Description
common	No	Object	Task runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Response Parameters

Status code: 200

Table 3-65 Response body parameters

Parameter	Type	Description
id	String	ID of a created task

Status code: 400

Table 3-66 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-67 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a task whose input type is **video_source** and output type is **webhook**. The algorithm service version is **1.1**. No task startup parameters are configured. The configuration is not saved as a template.

```

/v2/{project_id}/services/{service_name}/tasks
{
  "name": "Test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "http://test",
      "headers": {
        "a": "a"
      }
    }
  }
}

```

```

    }
  },
  "config" : {
    "common" : { }
  },
  "service_version" : "1.1",
  "is_saved_as_template" : false
}

```

- This request body is used to adapt old IVA APIs.

```

/v2/{project_id}/services/{service_name}/tasks

{
  "name" : "test-alg-819",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://iuwhediue-input.com",
      "index" : 0
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://iuwhediue-output.com",
      "headers" : {
        "AA" : "AA"
      }
    }
  },
  "config" : {
    "common" : {
      "viewpoint" : 1
    }
  },
  "service_version" : "3.0",
  "is_saved_as_template" : false,
  "resource_order_id" : "029b34a69efd48769215e429deff0cec"
}

```

- This request creates a scheduled task. If the end time of one day is 23:59:00 and the start time of the next day is 00:00:00, the task does not stop until it is completed.

```

/v2/{project_id}/services/{service_name}/tasks

{
  "name" : "test-alg-819",
  "schedule" : {
    "type" : "weekly",
    "timezone" : "+08:00",
    "days_of_week" : [ 1, 2, 3, 4, 5, 6, 7 ],
    "periods" : [ [ ], [ ], [ ], [ ], [ {
      "begin_at" : "22:15:00",
      "end_at" : "23:59:00"
    } ] ], [ {
      "begin_at" : "00:00:00",
      "end_at" : "23:59:00"
    } ] ], [ {
      "begin_at" : "22:15:00",
      "end_at" : "23:59:00"
    } ] ]
  },
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://iuwhediue-input.com",
      "index" : 0
    } ]
  },
}

```

```
"output" : {  
  "webhook" : {  
    "url" : "https://iuwhediue-output.com",  
    "headers" : {  
      "AA" : "AA"  
    }  
  }  
},  
"config" : {  
  "common" : {  
    "viewpoint" : 1  
  }  
},  
"service_version" : "3.0",  
"is_saved_as_template" : false,  
"resource_order_id" : "029b34a69efd48769215e429deff0cec"  
}
```

Example Responses

Status code: 200

Operation successful

```
{  
  "tasks" : [ {  
    "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"  
  } ]  
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.2.2 Starting or Stopping a Task

Function

This API is used to start or stop a task.

URI

PUT /v2/{project_id}/tasks/{task_id}/action/{command}

Table 3-68 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
task_id	Yes	String	ID of a created task
command	Yes	String	API's action for a task, for example, stopping or starting

Request Parameters

Table 3-69 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 400

Table 3-70 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-71 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to stop the task whose ID is *{task_id}*.

```
/v2/{project_id}/tasks/{task_id}/action/{command}
```

```
{
  "id" : "String",
  "status_code" : 200,
  "status_msg" : "success"
}
```

- This request is used to start the task whose ID is *{task_id}*.

```
/v2/{project_id}/tasks/{task_id}/action/{command}
```

```
{
  "id" : "String",
  "status_code" : 200,
  "status_msg" : "success"
}
```

Example Responses

None

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.2.3 Modifying a Task

Function

This API is used to modify task configurations.

URI

PUT /v2/{project_id}/tasks/{task_id}

Table 3-72 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
task_id	Yes	String	ID of a created task

Request Parameters

Table 3-73 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 3-74 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Task name. It can contain up to 100 characters and can include letters, digits, hyphens (-), and underscores (_).
description	No	String	Task description, which is optional. Enter a maximum of 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.

Parameter	Mandatory	Type	Description
input	Yes	TaskInput object	Input configuration of a task, which is mandatory.
output	Yes	TaskOutput object	Output configuration of a task. At least one output mode must be configured.
config	No	TaskServiceConfig object	Task configuration parameters
is_saved_as_template	No	Boolean	Whether to save as a template Default: false
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> .

Table 3-75 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The value can be weekly , indicating that the task is executed every week.
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled tasks. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Currently, the system does not support this parameter. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly task.

Table 3-76 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge jobs) vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. The outputs of tasks whose input type is obs, url, edgcamera, or restful can be sent to webhook.</p> <p>Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies depending on the input type. Multiple inputs are allowed during creation, but only one input is allowed for update. If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0</p> <p>If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0</p> <p>If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA }</p> <p>If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkjushdgdksjhlmscjsckjhdbnk, stream_type: 1, index: 0</p> <p>If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0.</p> <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server. This parameter is mandatory only when the input type is vcn .

Table 3-77 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 64
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .

Parameter	Mandatory	Type	Description
stream_type	No	Integer	Stream type used for analysis. This parameter is mandatory when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false . Default: false

Table 3-78 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of a VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of a VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.

Parameter	Mandatory	Type	Description
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression <code>^.{1,1000}\$</code> .

Table 3-79 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to set the output mode to Event Center . true or 1 indicates yes. false indicates no. Default: false

Table 3-80 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is ^(?![/\s])(?!./)([^\s?*"<>]{0,1023})(?<![\s])\$. Maximum: 1023

Parameter	Mandatory	Type	Description
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 3-81 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	Name of a DIS stream. This parameter is mandatory when the DIS output type is used. The verification rule is ^[-A-Za-z0-9_]{1,64}\$. Maximum: 64
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. For example, in the API for creating edge face-related tasks, the output contains dataCategory , with a value range of [FacelImage, OriginImage], indicating whether to send the face image or original image. Array Length: 0 - 10

Table 3-82 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 3-83 TaskServiceConfig

Parameter	Mandatory	Type	Description
common	No	Object	Task runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Response Parameters

Status code: 400

Table 3-84 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1

Parameter	Type	Description
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-85 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to modify task configurations, including the task name, video source, scheduling mode, and output configuration.

```

/v2/{project_id}/tasks/{task_id}
{
  "name": "TestA",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "http://test",
      "headers": {
        "a": "a"
      }
    }
  },
  "config": {
    "common": { }
  },
  "priority": "low",
  "service_version": "1.1",
  "manufacturer": "VIAS",
  "is_saved_as_template": false
}

```

Example Responses

None

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.2.4 Obtaining Tasks

Function

This API is used to obtain tasks.

URI

GET /v2/{project_id}/tasks

Table 3-86 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .

Table 3-87 Query Parameters

Parameter	Mandatory	Type	Description
source_data_type	No	String	Task type, which is used for filtering. Only async_task and sync_task are supported.
title	No	String	Algorithm name, which must match the regular expression <code>^[a-zA-Z0-9\u4e00-\u9fa5-_\]{2,64}\$</code> .

Parameter	Mandatory	Type	Description
camera_name	No	String	Camera name Maximum: 255
task_state	No	String	Task status. Options: PENDING, RECOVERING, STARTING, UPGRADING, CREATE_FAILED, START_FAILED, RUNNING, STOPPING, STOPPED, ABNORMAL, SUCCEEDED, FAILED, DELETING, FREEZING, FROZEN, SCHEDULING, and LACK_OF_RESOURCES.
task_name	No	String	Task name Maximum: 1024
page_size	No	Integer	Number of records displayed on each page Minimum: 5 Maximum: 1000 Default: 10
page	No	Integer	Offset Default: 1
sort_dir	No	String	Sorting rule for displaying service tasks Default: desc
batch_id	No	String	Batch configuration ID, which must match the regular expression ^[a-z0-9-]{4,36}\$.
video_group_id	No	String	Video group ID. Multiple IDs are separated by commas (.). The value length must be [4,2048].
company	No	String	Vendor name. Multiple values are separated by commas (.).
alg_id	No	String	Algorithm ID, which must match the regular expression ^[0-9a-f]{8}-[0-9a-f]{4}-[4][0-9a-f]{3}-[89ab][0-9a-f]{3}-[0-9a-f]{12}\$.

Request Parameters

Table 3-88 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-89 Response body parameters

Parameter	Type	Description
count	Integer	Number of records displayed on the current page
tasks	Array of TaskInfo objects	Obtained tasks
page	Integer	Current page number
page_size	Integer	Maximum number of records displayed on a page

Table 3-90 TaskInfo

Parameter	Type	Description
id	String	Task ID
name	String	Task name
service_id	String	ID of the service corresponding to a task
created_at	String	Task creation time
state	String	Task status. The value can be PENDING , RECOVERING , STARTING , UPGRADING , CREATE_FAILED , START_FAILED , RUNNING , STOPPING , STOPPED , ABNORMAL , SUCCEEDED , FAILED , DELETING , FREEZING , or FROZEN .
video_source_name	String	Video source name

Parameter	Type	Description
title	String	Algorithm name
type	String	Task type (0 : cloud task; 1 : edge task)
algorithm_publish_id	String	Algorithm ID

Status code: 400

Table 3-91 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-92 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to obtain the tasks in the **Running, Succeeded, Stopped, Pending, Failed, or Abnormal** state.

```
/v2/{project_id}/tasks  
https://{endpoint}/v2/{project_id}/tasks?page=1&page_size=10
```

Example Responses

Status code: 200

Response body for obtaining tasks

```
{  
  "count" : 2,  
  "tasks" : [ {  
    "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",  
    "name" : "qqqq_task",  
    "service_id" : "xxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx",  
    "created_at" : "1686034773024",  
    "state" : "PENDING",  
    "video_source_name" : "url_test",  
    "title" : "testwjh",  
    "type" : "0",  
    "algorithm_publish_id" : "xxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"  
  }, {  
    "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",  
    "name" : "task_test1",  
    "service_id" : "xxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx",  
    "created_at" : "1686027880205",  
    "state" : "STOPPED",  
    "video_source_name" : "test_g11",  
    "title" : "alg_test",  
    "type" : "0",  
    "algorithm_publish_id" : "xxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"  
  } ],  
  "page" : 1,  
  "page_size" : 10  
}
```

Status Codes

Status Code	Description
200	Response body for obtaining tasks
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.2.5 Deleting a Task

Function

This API is used to delete tasks.

URI

DELETE /v2/{project_id}/tasks/{task_id}

Table 3-93 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
task_id	Yes	String	Task ID

Request Parameters

Table 3-94 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 400

Table 3-95 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-96 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to delete the task whose ID is *{task_id}*.

```
/v2/{project_id}/tasks/{task_id}
```

```
https://{endpoint}/v2/{project_id}/tasks/{task_id}?
```

Example Responses

None

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.2.6 Obtaining Task Details

Function

This API is used to obtain details about intelligent video analysis tasks.

URI

```
GET /v2/{project_id}/tasks/{task_id}
```

Table 3-97 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
task_id	Yes	String	Task ID

Request Parameters

Table 3-98 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-99 Response body parameters

Parameter	Type	Description
id	String	Task ID
name	String	Task name
creator	String	Username of the task creator
project_id	String	Project ID of the task creator
description	String	Task description Minimum: 0 Maximum: 500
release_id	String	ID of the service corresponding to a task
service_id	String	ID of the service corresponding to a task
created_at	String	Task creation time
updated_at	String	Time when the latest task status was updated

Parameter	Type	Description
state	String	Task status. The value can be PENDING , RECOVERING , STARTING , UPGRADING , CREATE_FAILED , START_FAILED , RUNNING , STOPPING , STOPPED , ABNORMAL , SUCCEEDED , FAILED , DELETING , FREEZING , or FROZEN .
status	String	Details about a task status (for some statuses only) Minimum: 0 Maximum: 4096
error	error object	Error information
schedule_status	String	Status of a scheduled task. The value can be ACTIVATED or INACTIVATED .
schedule	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	TaskInput object	Input configuration of a task, which is mandatory.
output	TaskOutputF orDisplay object	Output configuration of a task
config	TaskServiceC onfig object	Task runtime parameters customized by the service publisher
video_source_name	String	Video source name
title	String	Algorithm name (CN)
group_name	String	Group name. Multiple values are separated by commas (,).
company	String	Vendor
task_config	String	Task algorithm configuration
type	String	Cloud or edge
resource_order_id	String	Resource order ID
package_id	String	Algorithm package ID
device_id	String	Device ID
access_addresses	String	Access address

Parameter	Type	Description
algorithm_publish_id	String	Algorithm ID

Table 3-100 error

Parameter	Type	Description
code	String	Error code Minimum: 8 Maximum: 36
message	String	Error description Minimum: 2 Maximum: 512

Table 3-101 TaskSchedule

Parameter	Type	Description
type	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The value can be weekly , indicating that the task is executed every week.
timezone	String	Time zone where a user is located. This parameter is mandatory for scheduled tasks. The value is accurate to the minute.
days_of_week	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Currently, the system does not support this parameter. Minimum: 1 Maximum: 31

Parameter	Type	Description
periods	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly task.

Table 3-102 TaskInput

Parameter	Type	Description
type	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge jobs) vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. The outputs of tasks whose input type is obs, url, edgcamera, or restful can be sent to webhook. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Type	Description
data	Array of TaskInputData objects	Input details of a task, which is mandatory. The configuration varies depending on the input type. Multiple inputs are allowed during creation, but only one input is allowed for update. If the input type is obs , you must configure bucket , path , and index . Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url , you must configure url and index . Example: url: https://xxx-xxx.com, index: 0 If the input type is restful , you must configure certificate_check , rtsp_path_in_response , url , index , and headers . Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn , you must configure device_id , stream_type , and index . Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera , you must configure id and index . Example: id: 007cdfc-6000-47ce-b0e3-870b4a0db65e, index: 0 . Array Length: 1 - 50
vcn	TaskInputVcn object	VCN server. This parameter is mandatory only when the input type is vcn .

Table 3-103 TaskInputData

Parameter	Type	Description
video_source_id	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	String	Name of a video stream
bucket	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 64
path	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023

Parameter	Type	Description
url	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
rtsp_path_in_response	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	Integer	Stream type used for analysis. This parameter is mandatory when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63
certificate_check	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false . Default: false

Table 3-104 TaskInputVcn

Parameter	Type	Description
ip	String	IP address of a VCN server. This parameter is mandatory only when the input type is vcn .

Parameter	Type	Description
port	Integer	Port number of a VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535
username	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 3-105 TaskOutputForDisplay

Parameter	Type	Description
obs	TaskOutputObs object	Configuration information when the output type is obs .
dis	TaskOutputDis object	Configuration information when the output type is dis .
webhook	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	Boolean	Whether to associate the event center with task outputs

Table 3-106 TaskOutputObs

Parameter	Type	Description
bucket	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: " ^[a-z0-9](?![-./])([a-z0-9-]{1,61})[a-z0-9]\$ "). Maximum: 63
path	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is ^(?![/\s])(?!./)([^\s?*<> \]{0,1023})?<![\s])\$. Maximum: 1023

Parameter	Type	Description
data_category	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 3-107 TaskOutputDis

Parameter	Type	Description
stream_name	String	Name of a DIS stream. This parameter is mandatory when the DIS output type is used. The verification rule is <code>^[-A-Za-z0-9_]{1,64}\$</code> . Maximum: 64
data_category	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. For example, in the API for creating edge face-related tasks, the output contains dataCategory , with a value range of [FacelImage, OriginImage] , indicating whether to send the face image or original image. Array Length: 0 - 10

Table 3-108 TaskOutputWebhook

Parameter	Type	Description
url	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000
headers	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 3-109 TaskServiceConfig

Parameter	Type	Description
common	Object	Task runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Status code: 400

Table 3-110 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-111 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to obtain task details including the task name, input mode, and output mode.

```
/v2/{project_id}/tasks/{task_id}
https://{endpoint}/v2/{project_id}/tasks/{task_id}?
```

Example Responses

Status code: 200

Task details

```
{
  "id": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "name": "qqqq_task",
  "creator": "test",
  "project_id": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "release_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxxx",
  "service_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxxx",
  "created_at": "2023-06-06T06:59:33.024Z",
  "updated_at": "2023-06-06T06:59:33.024Z",
  "event_type": 0,
  "priority": "low",
  "steal": 0,
  "state": "PENDING",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxxx"
    } ]
  },
  "output": {
    "event_center": true
  },
  "config": {
    "common": { }
  },
  "video_source_name": "url_test",
  "task_config": "<?xml version='1.0' encoding='UTF-8'?><algorithm><config><common><param titleCn='platform' name='platform' required='false' titleEn='platform' type='Object'><param titleCn='project_id' name='project_id' required='false' titleEn='project_id' type='String'><param titleCn='domain_name' name='domain_name' required='false' titleEn='domain_name' type='String'><param titleCn='agency_name' name='agency_name' required='false' titleEn='agency_name' type='String'><param titleCn='domain_id' name='domain_id' required='false' titleEn='domain_id' type='String'><param titleCn='task_id' name='task_id' required='false' titleEn='task_id' type='String'></param></common></config></algorithm>",
  "type": "0",
  "package_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxxx"
}
```

Status Codes

Status Code	Description
200	Task details
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.2.7 Adding a Batch Task

Function

This API is used to add a batch task.

URI

POST /v2/{project_id}/batch-tasks

Table 3-112 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .

Request Parameters

Table 3-113 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 3-114 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Task name. It can contain up to 100 characters and can include letters, digits, hyphens (-), and underscores (_).
description	No	String	Task description, which is optional. Enter a maximum of 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.

Parameter	Mandatory	Type	Description
batch_input	Yes	BatchTaskInputDto object	Batch task input
output	Yes	TaskOutput object	Output configuration of a task. At least one output mode must be configured.
config	No	TaskServiceConfig object	Task configuration parameters
service_name	Yes	String	Algorithm API ID, which must match the regular expression $^[\u4E00-\u9FA5a-zA-Z0-9_-]{1,100}$$. Minimum: 1 Maximum: 100
service_version	Yes	String	Service version. The value must match the regular expression $^[a-z0-9.]{3,32}$$. Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save as a template Default: false
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression $^[a-z0-9_-]{4,36}$$. Minimum: 4 Maximum: 36

Table 3-115 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The value can be weekly , indicating that the task is executed every week.

Parameter	Mandatory	Type	Description
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled tasks. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Currently, the system does not support this parameter. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly task.

Table 3-116 BatchTaskInputDto

Parameter	Mandatory	Type	Description
video_source_group	No	Array of BatchTaskVideoSourceGroupDto objects	Video source group information Array Length: 1 - 100

Table 3-117 BatchTaskVideoSourceGroupDto

Parameter	Mandatory	Type	Description
video_source_group_id	Yes	String	Video source group ID

Parameter	Mandatory	Type	Description
video_source_list	Yes	Array of BatchTaskInputVideoSourceDto objects	Video sources Array Length: 0 - 100

Table 3-118 BatchTaskInputVideoSourceDto

Parameter	Mandatory	Type	Description
video_source_id	Yes	String	Video source ID
target_roi	No	String	ROI Minimum: 0 Maximum: 2048

Table 3-119 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to set the output mode to Event Center . true or 1 indicates yes. false indicates no. Default: false

Table 3-120 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is ^(?![./\s])(?!./)([^\:*?"<> \]{0,1023})(?<![\s])\$. Maximum: 1023
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 3-121 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	Name of a DIS stream. This parameter is mandatory when the DIS output type is used. The verification rule is ^[-A-Za-z0-9_]{1,64}\$. Maximum: 64

Parameter	Mandatory	Type	Description
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. For example, in the API for creating edge face-related tasks, the output contains dataCategory , with a value range of [FacelImage, OriginImage] , indicating whether to send the face image or original image. Array Length: 0 - 10

Table 3-122 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 3-123 TaskServiceConfig

Parameter	Mandatory	Type	Description
common	No	Object	Task runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Response Parameters

Status code: 200

Table 3-124 Response body parameters

Parameter	Type	Description
total_count	Integer	Total number of tasks
failed_count	Integer	Number of failed tasks
succeed_count	Integer	Number of successfully executed tasks
id	String	Batch task ID
error_list	Array of strings	Error information list

Status code: 400

Table 3-125 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-126 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request adds a batch task named **wdwd**. The smoke and fire detection algorithm is used, with version 1.0. The vendor is **VIAS**. The configuration is not saved as a template. The input mode is **video_source**. The output mode is **webhook**. The task startup parameters are configured.

```

/v2/{project_id}/batch-tasks
{
  "name" : "wdwd",
  "service_name" : "Smoke and fire detection algorithm",
  "service_version" : "1.0",
  "manufacturer" : "VIAS",
  "is_saved_as_template" : false,
  "description" : "",
  "priority" : "low",
  "batch_input" : {
    "video_source_group" : [ {
      "video_source_group_id" : "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx",
      "video_source_list" : [ {
        "video_source_id" : "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
      } ]
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "http://test",
      "headers" : {
        "a" : "a"
      }
    }
  },
  "config" : {
    "common" : {
      "render_result_sw" : 1,
      "fire_detection_sw" : 1,
      "smoke_detection_sw" : 1
    }
  }
}

```

Example Responses

Status code: 200

Response to a batch operation request

```
{
  "total_count" : 1,
  "failed_count" : 0,
  "succeed_count" : 1,
  "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "error_list" : []
}
```

Status Codes

Status Code	Description
200	Response to a batch operation request
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.2.8 Starting or Stopping a Batch Task

Function

This API is used to start or stop a batch task.

URI

PUT /v2/{project_id}/batch-tasks/{id}/action/{command}

Table 3-127 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
id	Yes	String	Batch task ID
command	Yes	String	API's action for a batch task. The value can be start or stop .

Request Parameters

Table 3-128 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-129 Response body parameters

Parameter	Type	Description
total_count	Integer	Total number of tasks
failed_count	Integer	Number of failed tasks
succeed_count	Integer	Number of successfully executed tasks
id	String	Batch task ID
error_list	Array of strings	Error information list

Status code: 400

Table 3-130 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-131 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to start or stop the batch task whose ID is *{id}*.

```
/v2/{project_id}/batch-tasks/{id}/action/{command}
```

```
https://{endpoint}/v2/{project_id}/batch-tasks/0d47bbf52962414bb7ae27fb6ea24230/action/{command}?
```

Example Responses

Status code: 200

Response to a batch operation request

```
{
  "total_count" : 1,
  "failed_count" : 0,
  "succeed_count" : 1,
  "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "error_list" : [ ]
}
```

Status Codes

Status Code	Description
200	Response to a batch operation request
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.2.9 Modifying a Batch Task

Function

This API is used to modify a batch task.

URI

PUT /v2/{project_id}/batch-tasks/{id}

Table 3-132 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
id	Yes	String	Batch task ID

Request Parameters

Table 3-133 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 3-134 Request body parameters

Parameter	Mandatory	Type	Description
name	No	String	Task name, which is mandatory. Enter 1 to 100 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed.
description	No	String	Task description, which is optional. Enter a maximum of 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Scheduled task parameters

Parameter	Mandatory	Type	Description
batch_input	No	BatchTaskInputDto object	Input configuration of a task
output	No	TaskOutput object	Output configuration of a task
config	No	TaskServiceConfig object	Task configuration parameters
is_saved_as_template	No	Boolean	Whether to save as a template Default: false
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> .

Table 3-135 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The value can be weekly , indicating that the task is executed every week.
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled tasks. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Currently, the system does not support this parameter. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly task.

Table 3-136 BatchTaskInputDto

Parameter	Mandatory	Type	Description
video_source_group	No	Array of BatchTaskVideoSourceGroupDto objects	Video source group information Array Length: 1 - 100

Table 3-137 BatchTaskVideoSourceGroupDto

Parameter	Mandatory	Type	Description
video_source_group_id	Yes	String	Video source group ID
video_source_list	Yes	Array of BatchTaskInputVideoSourceDto objects	Video sources Array Length: 0 - 100

Table 3-138 BatchTaskInputVideoSourceDto

Parameter	Mandatory	Type	Description
video_source_id	Yes	String	Video source ID

Parameter	Mandatory	Type	Description
target_roi	No	String	ROI Minimum: 0 Maximum: 2048

Table 3-139 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to set the output mode to Event Center . true or 1 indicates yes. false indicates no. Default: false

Table 3-140 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./[-./])([a-z0-9-]{1,61})[a-z0-9]\$ ") . Maximum: 63
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is ^(?![./\s])(?!./)([^\s?*<>]{0,1023})?<![./\s]\$. Maximum: 1023

Parameter	Mandatory	Type	Description
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 3-141 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	Name of a DIS stream. This parameter is mandatory when the DIS output type is used. The verification rule is ^[-A-Za-z0-9_]{1,64}\$. Maximum: 64
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. For example, in the API for creating edge face-related tasks, the output contains dataCategory , with a value range of [FacelImage, OriginImage], indicating whether to send the face image or original image. Array Length: 0 - 10

Table 3-142 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of task output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 3-143 TaskServiceConfig

Parameter	Mandatory	Type	Description
common	No	Object	Task runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Response Parameters

Status code: 200

Table 3-144 Response body parameters

Parameter	Type	Description
total_count	Integer	Total number of tasks
failed_count	Integer	Number of failed tasks
succeed_count	Integer	Number of successfully executed tasks
id	String	Batch task ID

Parameter	Type	Description
error_list	Array of strings	Error information list

Status code: 400

Table 3-145 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-146 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request modifies a batch task named **wdwd**. The smoke and fire detection algorithm is used, with version 1.0. The vendor is **VIAS**. The configuration is not saved as a template. The input mode is **video_source**. The output mode is **webhook**. The task startup parameters are configured.

```
/v2/{project_id}/batch-tasks/{id}
```



```
{
  "name" : "wdwdx",
  "service_name" : "Smoke and fire detection algorithm",
  "service_version" : "1.0",
  "manufacturer" : "VIAS",
  "priority" : "low",
  "is_saved_as_template" : false,
  "description" : "",
  "batch_input" : {
    "video_source_group" : [ {
      "video_source_group_id" : "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx",
      "video_source_list" : [ {
        "video_source_id" : "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
      } ]
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "http://test",
      "headers" : {
        "a" : "a"
      }
    }
  },
  "config" : {
    "common" : {
      "render_result_sw" : 1,
      "fire_detection_sw" : 1,
      "smoke_detection_sw" : 1
    }
  }
}
```

Example Responses

Status code: 200

Response to a batch operation request

```
{
  "total_count" : 1,
  "failed_count" : 0,
  "succeed_count" : 1,
  "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "error_list" : [ ]
}
```

Status Codes

Status Code	Description
200	Response to a batch operation request
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.2.10 Deleting a Batch Task

Function

This API is used to delete a batch task.

URI

DELETE /v2/{project_id}/batch-tasks/{id}

Table 3-147 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
id	Yes	String	Batch task ID

Request Parameters

Table 3-148 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-149 Response body parameters

Parameter	Type	Description
total_count	Integer	Total number of tasks
failed_count	Integer	Number of failed tasks
succeed_count	Integer	Number of successfully executed tasks
id	String	Batch task ID
error_list	Array of strings	Error information list

Status code: 400

Table 3-150 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-151 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to delete the batch task whose ID is *{id}*.

`https://xxxxt/v2/xxx/batch-tasks/xxx?`

Example Responses

Status code: 200

Response to a batch operation request

```
{
  "total_count" : 2,
  "failed_count" : 0,
  "succeed_count" : 2,
  "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
}
```

```
"error_list" : [ ]
}
```

Status Codes

Status Code	Description
200	Response to a batch operation request
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.2.11 Obtaining Batch Tasks

Function

This API is used to obtain batch tasks.

URI

GET /v2/{project_id}/batch-tasks

Table 3-152 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .

Table 3-153 Query Parameters

Parameter	Mandatory	Type	Description
is_paged	No	Boolean	Whether to display records on different pages Default: true
page_size	No	Integer	Number of records displayed on each page Minimum: 5 Maximum: 200 Default: 10

Parameter	Mandatory	Type	Description
page_num	No	Integer	Page number Minimum: 1 Maximum: 10000 Default: 1
order_by	No	String	Ascending or descending order. The value can be asc or desc . Default: desc
sort_name	No	String	Sorting field. The value can be task_count or created_at . Default: created_at
video_group	No	String	Video source group list. Use commas (,) to separate multiple groups. The value must match the regular expression ^[a-zA-Z0-9\u4e00-\u9fa5,-]{1,1000}\$. Minimum: 1 Maximum: 1000
task_state	No	String	Task status. The value can be pending, recovering, starting, upgrading, create_failed, start_failed, running, stopping, stopped, abnormal, succeeded, failed, deleting, freezing, frozen, stopped_no_service, scheduling, or lack_of_resources .
type_like	No	String	Fuzzy search field. The value can be batch_task_name or publish_service_name .
name_like	No	String	Name for fuzzy search. This parameter must be used together with type_like to determine whether to perform fuzzy search based on batch_task_name or publish_service_name . Minimum: 0 Maximum: 100

Parameter	Mandatory	Type	Description
manufacturer	No	String	Filter by vendor. The value must match the regular expression <code>^[a-zA-Z0-9\u4e00-\u9fa5,-_]{2,64}\$</code> . Minimum: 2 Maximum: 64
title	No	String	Algorithm name, which must match the regular expression <code>^[a-zA-Z0-9\u4e00-\u9fa5,-_]{2,64}\$</code> . Minimum: 2 Maximum: 64

Request Parameters

Table 3-154 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-155 Response body parameters

Parameter	Type	Description
count	Integer	Total number of records
batch_task_list	Array of BatchTaskDto objects	Batch tasks

Table 3-156 BatchTaskDto

Parameter	Type	Description
id	String	Batch task ID

Parameter	Type	Description
batch_task_name	String	Batch task name
video_source_name	String	Video source name
video_group_name	String	Group name
alg_name	String	Algorithm name
company	String	Vendor name
type	String	Task type
num_task	Integer	Total number of batch tasks
created_at	Long	Creation time
batch_task_status_info	BatchTaskStatusInfoDto object	Batch task status information

Table 3-157 BatchTaskStatusInfoDto

Parameter	Type	Description
pending	Integer	Number of pending tasks
recovering	Integer	Number of tasks being restored
starting	Integer	Number of tasks being started
upgrading	Integer	Number of tasks being upgraded
create_failed	Integer	Number of tasks that failed to be created
start_failed	Integer	Number of tasks that failed to be started
running	Integer	Number of running tasks
stopping	Integer	Number of tasks being stopped
stopped	Integer	Number of stopped tasks
abnormal	Integer	Number of abnormal tasks
succeeded	Integer	Number of successfully executed tasks
failed	Integer	Number of failed tasks
deleting	Integer	Number of tasks being deleted
freezing	Integer	Number of tasks being frozen
frozen	Integer	Number of frozen tasks

Parameter	Type	Description
stopped_no_service	Integer	Number of tasks that are pending after the service is redeployed
scheduling	Integer	Scheduling
lack_of_resources	Integer	Failed to create the batch task due to insufficient resources.

Status code: 400

Table 3-158 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-159 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to obtain batch task information, including the batch task name, video source group, algorithm service name, configuration type, number of tasks, creation time, and task status.

```
https://xxx/v2/xxx/batch-tasks?page_num=1&page_size=10
```

Example Responses

Status code: 200

Response to a batch operation request

```
{
  "count" : 2,
  "batch_task_list" : [ {
    "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "batch_task_name" : "qqqq",
    "video_group_name" : "2312,1889,927,914",
    "alg_name" : "testwjh",
    "type" : "0",
    "priority" : "low",
    "num_task" : 3,
    "created_at" : 1685667905165,
    "batch_task_status_info" : {
      "stopped" : 3
    }
  }, {
    "id" : "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "batch_task_name" : "qqq",
    "video_group_name" : "2312",
    "alg_name" : "testwjh",
    "type" : "0",
    "priority" : "low",
    "num_task" : 1,
    "created_at" : 1685667856283,
    "batch_task_status_info" : {
      "running" : 1
    }
  }
}]
```

Status Codes

Status Code	Description
200	Response to a batch operation request
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.3 Algorithm Center

3.3.1 Deploying an Algorithm

Function

This API is used to deploy an algorithm.

URI

POST /v2/{project_id}/algorithm/{alg_id}/deploy

Table 3-160 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
alg_id	Yes	String	Algorithm ID

Request Parameters

Table 3-161 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 3-162 Request body parameters

Parameter	Mandatory	Type	Description
pool_id	No	String	Resource pool ID. This parameter is mandatory when the service status is Not deployed .
stream_count	Yes	Integer	Number of video stream channels Minimum: 1 Maximum: 10000

Parameter	Mandatory	Type	Description
deploy_config	No	Object	Service startup parameter, which must be configured based on the model deployment constraints. The type is Map<String, Object> . This parameter is optional and is left blank by default. To ensure data security, do not enter sensitive information, such as plaintext passwords, in environment variables.
envs	No	Object	Environment variable key-value pair required for running a service. The type is Map<String, String> . This parameter is optional and is left blank by default. To ensure data security, do not enter sensitive information, such as plaintext passwords, in environment variables.

Response Parameters

Status code: 200

Table 3-163 Response body parameters

Parameter	Type	Description
alg_name	String	Algorithm name

Example Requests

This request is used to deploy an algorithm. In the request body, the resource pool ID, maximum number of stream channels, and service startup parameters are configured.

```
GET https://{endpoint}/v2/{project_id}/algorithm/068ed4d8-077e-4ec9-aa19-bc*****e925/deploy
{
  "pool_id" : "ed9f128bf7d04f5683f0ef*****a255",
  "stream_count" : 1,
  "deploy_config" : {
    "sub_scene" : "common"
  }
}
```

Example Responses

Status code: 200

Response body for deploying an algorithm

```
{  
  "alg_name" : "Intrusion detection"  
}
```

Status Codes

Status Code	Description
200	Response body for deploying an algorithm
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.3.2 Stopping Algorithm Deployment

Function

This API is used to stop algorithm deployment.

URI

PUT /v2/{project_id}/algorithm/{alg_id}/deploy/stop

Table 3-164 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
alg_id	Yes	String	Algorithm ID

Request Parameters

Table 3-165 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-166 Response body parameters

Parameter	Type	Description
alg_id	String	Algorithm ID

Example Requests

This request is used to stop algorithm deployment.

```
GET https://{endpoint}/v2/{project_id}/algorithm/068ed4d8-077e-4ec9-aa19-bc*****e925/deploy/stop
```

Example Responses

Status code: 200

Response body for stopping algorithm deployment

```
{
  "alg_id" : "068ed4d8-077e-4ec9-aa19-bc*****e925"
}
```

Status Codes

Status Code	Description
200	Response body for stopping algorithm deployment
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.3.3 Obtaining Service Details

Function

This API is used to obtain service details.

URI

GET /v2/{project_id}/algorithm/services/{service_id}

Table 3-167 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
service_id	Yes	String	Service ID

Request Parameters

Table 3-168 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-169 Response body parameters

Parameter	Type	Description
service_id	String	Service ID
service_name	String	Service name
logo	String	Algorithm logo, which is a Base64-encoded string. This parameter is returned when it is not empty.
function_version	String	Service version

Parameter	Type	Description
release_flag	Boolean	Whether the service has been released. The value can be true or false .
description	String	Algorithm description. This parameter is returned when it is not empty.
created_at	Long	Creation time
updated_at	Long	Update time
release_at	Long	Release time
api	String	API
pool_id	String	Resource pool ID
alg_name	String	Algorithm name
alg_id	String	Algorithm ID
request_mode	String	Request mode. The value can be sync or async .
package_name	String	Algorithm package name
package_id	String	Algorithm package ID
alg_version	String	Algorithm version
alg_versions	Array of strings	Algorithm versions
diagram	String	Algorithm scenario diagram, which is a Base64-encoded string. This parameter is returned when it is not empty.
service_api_list	Array of ServiceApiDto objects	Service API list
deployment_constraints	DeploymentConstraintsDto object	Model deployment constraints
company	String	Vendor name
tags	Array of strings	Application scenario tag
deploy_type	String	Deployment type. The value can be cloud or edge .
alg_class	String	Algorithm type. The value can be self or partner .

Parameter	Type	Description
alg_status	String	Algorithm status. The value can be service_running , service_deploying , service_failed , service_stopping , service_stopped , service_upgrading , service_finished , service_concerning or "not_deployed".
error_msg	String	Service exception information. This parameter is returned when it is not empty.

Table 3-170 ServiceApiDto

Parameter	Type	Description
request_type	String	Request type, which can be get or post .
zh	String	Description (CN)
en	String	Description
request_url	String	Request URL

Table 3-171 DeploymentConstraintsDto

Parameter	Type	Description
request_mode	String	Request mode. The value can be sync or async .
cpu_type	String	CPU type. The value can be x86_64 or aarch64 .
accelerators	Array of Accelerators Dto objects	Inference accelerator
input_types	Array of strings	Supported input type. The value can be OBS , URL , Restful , VCN , or EdgeCamera .
output_types	Array of strings	Supported output type. The value can be OBS , DIS , or Webhook .
service_config	String	Service startup parameters
task_config	String	Task configuration parameters

Table 3-172 AcceleratorsDto

Parameter	Type	Description
type	String	Accelerator card type Minimum: 1 Maximum: 256
name	String	Accelerator card name Minimum: 1 Maximum: 256
cuda_version	String	CUDA version Minimum: 1 Maximum: 256
driver_version_section	String	Ascend driver version Minimum: 1 Maximum: 256

Example Requests

This request is used to obtain service details.

```
GET https://{endpoint}/v2/{project_id}/algorithm/services/331bcb4a-5b3c-4e67-87cc-6c*****d77b
```

Example Responses

Status code: 200

Response body for obtaining service details

```
{
  "service_id" : "331bcb4a-5b3c-4e67-87cc-6c*****d77b",
  "service_name" : "Edge Intrusion Detection",
  "logo" : "data:image/png;base64,xxxxxx",
  "function_version" : "1.0",
  "release_flag" : true,
  "created_at" : 1680008856502,
  "updated_at" : 1680004378199,
  "release_at" : 1680004378199,
  "api" : "c-int*****ion-edge",
  "pool_id" : "ed9f128bf7d04f5683f0ef*****a255",
  "alg_name" : "Edge Intrusion Detection",
  "alg_id" : "068ed4d8-077e-4ec9-aa19-bc*****e925",
  "package_id" : "9a2423e3-02d3-4305-b491-d6*****51bd",
  "alg_version" : "1.0.1",
  "alg_versions" : [ ],
  "diagram" : "data:image/png;base64,xxxxxx",
  "service_api_list" : [ {
    "request_type" : "POST",
    "zh" : "Creating a Task",
    "en" : "create task",
    "request_url" : "/v2/41be0da3412b4a569409dcec43983908/services/c-int*****ion-edge/tasks"
  }, {
    "request_type" : "GET",
    "zh" : "Task details",
    "en" : "task detail",
  } ]
}
```

```

"request_url" : "/v2/41be0da3412b4a569409dcec43983908/tasks/{task_id}"
}, {
  "request_type" : "GET",
  "zh" : "Task list",
  "en" : "task list",
  "request_url" : "/v2/41be0da3412b4a569409dcec43983908/tasks"
}, {
  "request_type" : "DELETE",
  "zh" : "Deleting a Task",
  "en" : "delete task",
  "request_url" : "/v2/41be0da3412b4a569409dcec43983908/tasks/{task_id}"
}, {
  "request_type" : "PUT",
  "zh" : "Starting a task",
  "en" : "start task",
  "request_url" : "/v2/41be0da3412b4a569409dcec43983908/tasks/{task_id}/action/start"
}, {
  "request_type" : "PUT",
  "zh" : "Stopping a task",
  "en" : "stop task",
  "request_url" : "/v2/41be0da3412b4a569409dcec43983908/tasks/{task_id}/action/stop"
} ],
"deployment_constraints" : {
  "request_mode" : "async",
  "cpu_type" : "x86_64",
  "accelerators" : [ {
    "type" : "gp",
    "name" : "Tnt004",
    "cuda_version" : "cuda 10.2"
  } ],
  "input_types" : [ "Restful", "VCN", "EdgeCamera" ],
  "output_types" : [ "Webhook" ],
  "service_config" : "<?xml version='1.0' encoding='UTF-8'?><algorithm><deployConfig> <param
name='sub_scene' titleCn='Sub scenario' titleEn='sub scene' required='false' type='String'
default='common'/></deployConfig></algorithm>",
  "task_config" : "<algorithm><config><common/></config></algorithm>"
},
"alg_scene" : "other",
"deploy_type" : "edge"
}

```

Status Codes

Status Code	Description
200	Response body for obtaining service details
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.3.4 Obtaining Your Algorithm Services

Function

This API is used to obtain your algorithm services.

URI

GET /v2/{project_id}/algorithm/services/user

Table 3-173 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .

Table 3-174 Query Parameters

Parameter	Mandatory	Type	Description
name_like	No	String	Service name. Fuzzy match is supported.
is_paged	No	Boolean	Whether to display records on different pages Default: false
page_size	No	Integer	Maximum number of records on each page Minimum: 5 Maximum: 200 Default: 10
page_num	No	Integer	Page number Minimum: 1 Maximum: 10000 Default: 1
order_by	No	String	Sorting order. The value can be asc or desc , indicating ascending or descending order. Default: desc
sort_name	No	String	Sorting parameter. The value can be created_at or function_version . Default: created_at

Parameter	Mandatory	Type	Description
alg_status	No	Array	Service status. Multiple options can be selected. Options: service_running , service_deploying , service_failed , service_stopping , service_stopped , service_upgrading , service_finished , service_concerning , and not_deployed .

Request Parameters

Table 3-175 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-176 Response body parameters

Parameter	Type	Description
count	Integer	Number of filtered algorithms
service_list	Array of ServicesListInfoDto objects	Service list
total	Integer	Total number of your algorithms

Table 3-177 ServicesListInfoDto

Parameter	Type	Description
alg_id	String	Algorithm ID
service_id	String	Service ID

Parameter	Type	Description
service_name	String	Service name
package_id	String	Algorithm service package ID
package_name	String	Algorithm service package name
company	String	Vendor name
alg_version	String	Algorithm version
function_version	String	Service version
tags	Array of strings	Application scenario tag
created_at	Long	Creation time
alg_status	String	Algorithm status. The value can be service_running , service_deploying , service_failed , service_stopping , service_stopped , service_upgrading , service_finished , service_concerning or "not_deployed".
deploy_type	String	Deployment type. The value can be cloud or edge .
alg_class	String	Algorithm type. The value can be self or partner .
request_mode	String	Request mode. The value can be sync or async .
description	String	Algorithm description. This parameter is returned when it is not empty.
error_msg	String	Service exception information. This parameter is returned when it is not empty.
can_update	Boolean	Whether the algorithm can be upgraded. This parameter is returned when the value is true .
new_alg_id	String	Algorithm ID after the upgrade. This parameter is returned when the algorithm can be upgraded.

Example Requests

This request is used to obtain algorithm services in **Running**, **Stop**, or **Deployment failed**.

```
GET https://{endpoint}/v2/{project_id}/algorithm/services/user?
alg_status=service_running&alg_status=service_stopped&alg_status=service_failed
```

Example Responses

Status code: 200

Request body for obtaining algorithm services

```
{
  "count" : 3,
  "service_list" : [ {
    "alg_id" : "068ed4d8-077e-4ec9-aa19-bc*****e925",
    "service_id" : "331bcb4a-5b3c-4e67-87cc-6c*****d77b",
    "service_name" : "Edge Intrusion Detection",
    "function_version" : "1.0",
    "created_at" : 1680008856502,
    "alg_status" : "service_running",
    "deploy_type" : "edge",
    "alg_class" : "self",
    "request_mode" : "async",
    "can_update" : true,
    "new_alg_id" : "3320b2b9-562b-4bee-bfee-0e*****01c1"
  }, {
    "alg_id" : "5c73bd3f-6498-40e5-a40f-7b*****1139",
    "service_id" : "04dc08b7-da07-46ee-83e7-c3*****f668",
    "service_name" : "test-event-01",
    "function_version" : "1.0",
    "created_at" : 1680005185627,
    "alg_status" : "service_stopped",
    "deploy_type" : "cloud",
    "alg_class" : "self",
    "request_mode" : "async"
  }, {
    "alg_id" : "c01ec07f-874f-42f1-ba1d-15*****d71b",
    "service_id" : "db1ec2d2-d023-4d20-ab6f-bc*****4eeb",
    "service_name" : "TEST-CLOUD-ALG",
    "function_version" : "1.0",
    "created_at" : 1680008219078,
    "alg_status" : "service_failed",
    "deploy_type" : "cloud",
    "alg_class" : "self",
    "request_mode" : "async",
    "description" : "Cloud algorithm for testing"
  } ],
  "total" : 3
}
```

Status Codes

Status Code	Description
200	Request body for obtaining algorithm services
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.4 Operation Center

3.4.1 Creating an Edge Resource Pool

Function

This API is used to create an edge resource pool.

URI

POST /v2/{project_id}/edge-pools

Table 3-178 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .

Request Parameters

Table 3-179 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 3-180 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Name of an edge resource pool. The value is a string of 4 to 32 characters consisting of lowercase letters, digits, and hyphens (-). It must start with a lowercase letter and ends with a lowercase letter or digit.

Parameter	Mandatory	Type	Description
description	No	String	Task description Minimum: 0 Maximum: 255
ief_service_instance_id	No	String	ID of a platinum IEF instance Minimum: 0 Maximum: 255
nodes	Yes	Array of strings	IEF edge nodes Array Length: 1 - 10

Response Parameters

Status code: 201

Table 3-181 Response body parameters

Parameter	Type	Description
id	String	ID of a created edge pool

Status code: 400

Table 3-182 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-183 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to create an edge resource pool named *xxx* with the node *xxx* selected.

POST https://{endpoint}/v2/{project_id}/edge-pools

```
{
  "name": "xxx",
  "description": "xxx",
  "iefServiceInstanceId": "xxx",
  "nodes": [
    {
      "xxx"
    }
  ]
}
```

Example Responses

Status code: 201

Response body for creating an edge resource pool

```
{
  "id": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
}
```

Status Codes

Status Code	Description
201	Response body for creating an edge resource pool
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.4.2 Deleting an Edge Resource Pool

Function

This API is used to delete an edge resource pool.

URI

DELETE /v2/{project_id}/edge-pools/{id}

Table 3-184 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
id	Yes	String	ID of an edge resource pool

Request Parameters

Table 3-185 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 400

Table 3-186 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1

Parameter	Type	Description
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-187 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to delete the edge resource pool whose ID is *xxx*.

```
DELETE https://{endpoint}/v2/{project_id}/edge-pools/xxx
```

Example Responses

None

Status Codes

Status Code	Description
204	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.4.3 Obtaining Edge Resource Pools

Function

This API is used to obtain edge resource pools.

URI

GET /v2/{project_id}/edge-pools

Table 3-188 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .

Table 3-189 Query Parameters

Parameter	Mandatory	Type	Description
is_paged	No	Boolean	Whether to display records on different pages Default: false
page_size	No	Integer	Page number Minimum: 1 Maximum: 1000 Default: 100
page_num	No	Integer	Number of records displayed on each page Minimum: 1 Maximum: 10000 Default: 1
name_like	No	String	Name for fuzzy search
order_by	No	String	Sorting mode. Data is sorted in ascending or descending order based on the value of sort_name . asc indicates the ascending order, and desc indicates the descending order. Options: <ul style="list-style-type: none"> • asc • desc Default: desc

Parameter	Mandatory	Type	Description
sort_name	No	String	Sorting field. Options: <ul style="list-style-type: none"> • created_at • updated_at Default: created_at
state	No	String	Status for filtering. You can select only one option. Options: <ul style="list-style-type: none"> • Running • Abnormal

Request Parameters

Table 3-190 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-191 Response body parameters

Parameter	Type	Description
count	Integer	Total number of edge resource pools
edge_pools	Array of EdgePoolListItemDto objects	Response body for obtaining edge resource pools

Table 3-192 EdgePoolListItemDto

Parameter	Type	Description
id	String	Edge pool ID
name	String	Name of an edge resource pool
state	String	Edge pool status

Parameter	Type	Description
project_id	String	Project ID
workspace_id	String	Workspace ID
created_at	Long	Creation time
updated_at	Long	Update time
description	String	Description

Status code: 400

Table 3-193 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-194 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to obtain edge resource pools, which are displayed on one page containing a maximum of 10 records.

```
GET https://{endpoint}/v2/{project_id}/edge-pools?is_paged=true&page_size=10&page_num=1
```

Example Responses

Status code: 200

Response body for obtaining edge resource pools

```
{
  "count" : 2,
  "edge_pools" : [ {
    "id" : "xxx",
    "name" : "test1",
    "state" : "Running",
    "project_id" : "xxx",
    "workspace_id" : "0",
    "created_at" : 1685611513591,
    "updated_at" : 1685611513591
  }, {
    "id" : "xxx",
    "name" : "test2",
    "state" : "Running",
    "project_id" : "xxx",
    "workspace_id" : "0",
    "created_at" : 1683344661036,
    "updated_at" : 1683344661036
  } ]
}
```

Status Codes

Status Code	Description
200	Response body for obtaining edge resource pools
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

3.4.4 Obtaining Details About an Edge Resource Pool

Function

This API is used to obtain details about an edge resource pool.

URI

```
GET /v2/{project_id}/edge-pools/{id}
```

Table 3-195 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
id	Yes	String	ID of an edge resource pool

Request Parameters

Table 3-196 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 3-197 Response body parameters

Parameter	Type	Description
id	String	Edge pool ID
name	String	Name of an edge resource pool
description	String	Description
state	String	Edge pool status
project_id	String	Project ID
workspace_id	String	Workspace ID
created_at	Long	Creation time
updated_at	Long	Update time
nodes	Array of EdgeNodeInfoDto objects	Edge node list

Table 3-198 EdgeNodeInfoDto

Parameter	Type	Description
id	String	Edge node ID
name	String	Name of an edge resource pool
description	String	Description. If the description is empty, this parameter is not returned.
state	String	Edge pool status
cpu	Integer	Number of CPU cores
arch	String	Computer architecture
enable_gpu	Boolean	Whether to use GPUs
enable_npu	Boolean	Whether to use NPUs
memory	Integer	Memory size
gpu_info	Array of GpuInfo objects	GPU information
npu_info	Array of NpuInfo objects	NPU information

Table 3-199 GpuInfo

Parameter	Type	Description
name	String	GPU name
driver_version	String	GPU driver version
type	String	GPU type
capacity	String	GPU capacity

Table 3-200 NpuInfo

Parameter	Type	Description
name	String	NPU name
driver_version	String	NPU driver version
type	String	NPU type
capacity	String	NPU capacity

Status code: 400

Table 3-201 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 3-202 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to obtain details about the edge resource pool whose ID is *xxx*.

```
GET https://{endpoint}/v2/{project_id}/edge-pools/xxx
```

Example Responses

Status code: 200

Response body for obtaining details about an edge resource pool

```
{
  "id": "xxx",
  "name": "yundao2",
```

```

"state": "Running",
"project_id": "xxx",
"workspace_id": "0",
"created_at": 1683344661036,
"updated_at": 1683344661036,
"nodes": [ {
  "id": "xxx",
  "name": "Edge node 2 for testing",
  "state": "Running",
  "cpu": 16,
  "arch": "x86_64",
  "enable_gpu": true,
  "enable_npu": false,
  "memory": 64263,
  "gpu_info": [ {
    "name": "gp0",
    "driver_version": "418.67",
    "type": "Tnt004",
    "capacity": "15079Mi"
  } ],
  "npu_info": [ ]
} ]
}

```

Status Codes

Status Code	Description
200	Response body for obtaining details about an edge resource pool
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4 Algorithm APIs

4.1 Edge Service APIs

4.1.1 Creating a People Flow Counting (Edge) Task

Function

This API is used to create a people flow counting (edge) task.

URI

POST /v2/{project_id}/services/c-flowcount-edge/tasks

Table 4-1 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-2 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-3 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	FlowCountServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-4 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-5 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-6 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-7 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-8 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-9 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-10 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-11 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-12 FlowCountServiceConfig

Parameter	Mandatory	Type	Description
common	No	FlowCountCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-13 FlowCountCommon

Parameter	Mandatory	Type	Description
line_count_interval	No	Integer	Interval for collecting the number of people per second who cross a particular straight line in a video. The value ranges from 1 to 86400 and the default value is 2 . Minimum: 1 Maximum: 86400 Default: 2

Parameter	Mandatory	Type	Description
region_count_interval	No	Integer	Interval for collecting the number of people per second who cross through a particular area. The value ranges from 1 to 86400 and the default value is 2. Minimum: 1 Maximum: 86400 Default: 2
line_detection_sw	No	Integer	Whether to collect the number of people who cross a particular straight line in a video. 0 : disabled. 1 : enabled. The default value is 1. Minimum: 0 Maximum: 1 Default: 1
region_detection_sw	No	Integer	Whether to collect the number of people who cross through a particular area. 0 : disabled. 1 : enabled. The default value is 1. Minimum: 0 Maximum: 1 Default: 1
heatmap_detection_sw	No	Integer	Whether to enable heatmap detection. 0 : disabled. 1 : enabled. The default value is 0. Minimum: 0 Maximum: 1 Default: 0
heatmap_detection_interval	No	Integer	Heatmap detection period, in seconds. The value ranges from 10 to 86400 and the default value is 10. Minimum: 10 Maximum: 86400 Default: 10

Parameter	Mandatory	Type	Description
heatmap_point_interval	No	Integer	Hotspot update period, in frames. In a heatmap detection period, hotspot values gradually accumulate. The value ranges from 1 to 10000 and the default value is 4 . Minimum: 1 Maximum: 10000 Default: 4

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: <code>{"lines":[{"data": [[560,680], [1185,506]],"properties":{"side1_name":"Side1","side2_name":"Side2"}],"polygons":[{"data": [[0,0], [0,1080], [1920,1080], [1920,0]]}]}</code> If the line configuration is not specified, the default value is used. By default, the line is horizontal and drawn at the position where the height is 50% of the image height. If the image width is w and the image height is h, the default position of the line is $[[1/4w, 1/2h], [3/4w, 1/2h]]$. If the area configuration is not specified, the default value is used. By default, the area is a rectangle, which is 1/4 of the middle of the entire video frame. If the image width is w and the image height is h, the positions of the four endpoints of the area are $[[1/4w, 1/4h], [3/4w, 1/4h], [1/4w, 3/4h], [3/4w, 3/4h]]$.

Response Parameters

Status code: 200

Table 4-14 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-15 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-16 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-17 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause

Parameter	Type	Description
advice	String	Suggestion

Example Requests

- This request is used to create a people flow counting (edge) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-flowcount-edge/tasks

```
{
  "name": "flowcount-task",
  "description": "flowcount task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "line_count_interval": 2,
      "region_count_interval": 2,
      "line_detection_sw": 1,
      "region_detection_sw": 1,
      "target_roi": "{\"lines\":{\"data\":[[560,680],[1185,506]],\"properties\":{\"side1_name\": \"Side1\", \"side2_name\": \"Side2\"}}, \"polygons\":{\"data\":[[0,0],[0,1080],[1920,1080],[1920,0]]}}",
      "heatmap_detection_sw": 0,
      "heatmap_detection_interval": 60,
      "heatmap_point_interval": 4
    }
  }
}
```

- This request is used to create a people flow counting task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-flowcount-edge/tasks

```
{
  "name": "flowcount-task",
  "description": "flowcount task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  }
}
```

```

},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "line_count_interval" : 2,
    "region_count_interval" : 2,
    "line_detection_sw" : 1,
    "region_detection_sw" : 1,
    "target_roi" : "{\"lines\":{\"data\":[[560,680],[1185,506]],\"properties\":{\"side1_name\":"Side1\", \"side2_name\":\"Side2\"}},\"polygons\":{\"data\":[[0,0],[0,1080],[1920,1080],[1920,0]]}}",
    "heatmap_detection_sw" : 0,
    "heatmap_detection_interval" : 60,
    "heatmap_point_interval" : 4
  }
}
}

```

- This request is used to create a people flow counting task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-flowcount-edge/tasks

```

{
  "name" : "flowcount-task",
  "description" : "flowcount task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "line_count_interval" : 2,
      "region_count_interval" : 2,
      "line_detection_sw" : 1,
      "region_detection_sw" : 1,
      "target_roi" : "{\"lines\":{\"data\":[[560,680],[1185,506]],\"properties\":{\"side1_name\":"Side1\", \"side2_name\":\"Side2\"}},\"polygons\":{\"data\":[[0,0],[0,1080],[1920,1080],[1920,0]]}}xyf",
      "heatmap_detection_sw" : 0,
      "heatmap_detection_interval" : 60,
      "heatmap_point_interval" : 4
    }
  }
}

```

- This request is used to create a people flow counting (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-flowcount-edge/tasks

```

{
  "name" : "flowcount-task",
  "description" : "flowcount task test",
  "input" : {
    "type" : "vcn",
    "data" : [ {
      "device_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type" : 2
    } ],
  },

```

```

"vcn" : {
  "ip" : "127.0.0.1",
  "port" : 8080,
  "username" : "vcntest",
  "password" : "123456abcd"
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "line_count_interval" : 2,
    "region_count_interval" : 2,
    "line_detection_sw" : 1,
    "region_detection_sw" : 1,
    "target_roi" : "{\"lines\":{\\\"data\\\":[[560,680],[1185,506]],\\\"properties\\\":{\\\"side1_name\\\":\\\"Side1\\\",\\\"side2_name\\\":\\\"Side2\\\"}},\\\"polygons\\\":{\\\"data\\\":[[0,0],[0,1080],[1920,1080],[1920,0]]}}\",
    "heatmap_detection_sw" : 0,
    "heatmap_detection_interval" : 60,
    "heatmap_point_interval" : 4
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.2 Creating an Intrusion Detection (Edge) task

Function

This API is used to create an intrusion detection (edge) task.

URI

POST /v2/{project_id}/services/c-intrusiondetection-edge/tasks

Table 4-18 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-19 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-20 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.

Parameter	Mandatory	Type	Description
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	IntrusionServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9.]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-21 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-22 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-23 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-24 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-25 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-26 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-27 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-28 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-29 IntrusionServiceConfig

Parameter	Mandatory	Type	Description
common	No	IntrusionCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-30 IntrusionCommon

Parameter	Mandatory	Type	Description
car_detection_sw	No	Integer	Corresponds to the Car Detection Switch parameter on the console. 0 : disabled. 1 : enabled. The default value is 0 . Minimum: 0 Maximum: 1 Default: 0

Parameter	Mandatory	Type	Description
person_detection_sw	No	Integer	Corresponds to the Person Detection Switch parameter on the console. 0 : disabled. 1 : enabled. The default value is 1 . Minimum: 0 Maximum: 1 Default: 1
detection_min_size	No	Integer	Corresponds to the Detection Minimum Size parameter on the console. This parameter specifies the minimum pixel value of the detection object. The value ranges from 60 to 4000 and the default value is 60 . Minimum: 60 Maximum: 4000 Default: 60
detection_max_size	No	Integer	Corresponds to the Detection Maximum Size parameter on the console. This parameter specifies the maximum pixel value of the detection object. The value ranges from 640 to 4000 and the default value is 1080 . Minimum: 640 Maximum: 4000 Default: 1080
line_detection_sw	No	Integer	Corresponds to the Line Detection Switch parameter on the console. 0 : disabled. 1 : enabled. The default value is 1 . Minimum: 0 Maximum: 1 Default: 1

Parameter	Mandatory	Type	Description
region_detection_sw	No	Integer	Corresponds to the Region Detection Switch parameter on the console. 0 : disabled. 1 : enabled. The default value is 1 . Minimum: 0 Maximum: 1 Default: 1
loitering_detection_sw	No	Integer	Corresponds to the Loitering Detection Switch parameter on the console. 0 : disabled. 1 : enabled. The default value is 0 . Minimum: 0 Maximum: 1 Default: 0
loitering_send_interval	No	Integer	Corresponds to the Loitering Send Interval parameter on the console. The value range is [5, 21600], in seconds. The default value is 300 , indicating that a loitering detection alarm is triggered when a pedestrian stays in the specified area for more than 300 seconds. Minimum: 5 Maximum: 21600 Default: 300
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
all_print_sw	No	Integer	<p>Corresponds to the All Print Switch parameter on the console. This parameter is valid only for intrusion detection. It specifies whether to include historical intrusion alarms in the output. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No historical alarms are contained in the output. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"lines":[{"data": [[560,680], [1185,506]],"properties": {"side1_name":"Side1","side2_name":"Side2"}],"polygons":[{"data": [[0,0], [0,1080], [1920,1080], [1920,0]]}]} If this parameter is not specified, the detection area is the entire video frame. By default, the line is drawn at the position where the height is 50% of the image height. If the image width is w and the image height is h, the default position of the line is $[[1/4w, 1/2h], [3/4w, 1/2h]]$.

Response Parameters

Status code: 200

Table 4-31 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-32 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-33 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-34 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an intrusion detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-intrusiondetection-edge/tasks
{
  "name": "intrusiondetection-task",
```

```
"description" : "intrusiondetection task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "car_detection_sw" : 0,
    "person_detection_sw" : 1,
    "detection_min_size" : 60,
    "detection_max_size" : 1080,
    "line_detection_sw" : 1,
    "region_detection_sw" : 1,
    "loitering_detection_sw" : 0,
    "loitering_send_interval" : 300,
    "image_compression_ratio" : 90,
    "render_result_sw" : 1,
    "all_print_sw" : 0,
    "render_roi_sw" : 1,
    "target_roi" : "{\lines\":[{\data\":[[560,680],[1185,506]],\properties\:{\side1_name
\":"Side1\","\side2_name\":"Side2\"}],\polygons\":[{\data\":[[0,0],[0,1080],[1920,1080],[1920,0]]}]}"
  }
}
}
```

- This request is used to create an intrusion detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-intrusiondetection-edge/tasks

```
{
  "name" : "intrusiondetection-task",
  "description" : "intrusiondetection task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "car_detection_sw" : 0,
      "person_detection_sw" : 1,
      "detection_min_size" : 60,
      "detection_max_size" : 1080,
      "line_detection_sw" : 1,
      "region_detection_sw" : 1,
      "loitering_detection_sw" : 0,
      "loitering_send_interval" : 300,
      "image_compression_ratio" : 90,
      "render_result_sw" : 1,
      "all_print_sw" : 0,

```

```

    "render_roi_sw" : 1,
    "target_roi" : "{\\"lines\\":[{\\\"data\\\":[[560,680],[1185,506]],\\"properties\\":{\\\"side1_name\\\":\\\"Side1\\\",\\\"side2_name\\\":\\\"Side2\\\"}},\\"polygons\\":[{\\\"data\\\":[[0,0],[0,1080],[1920,1080],[1920,0]]}]}"}
  }
}

```

- This request is used to create an intrusion detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-intrusiondetection-edge/tasks

```

{
  "name": "intrusiondetection-task",
  "description": "intrusiondetection task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "car_detection_sw": 0,
      "person_detection_sw": 1,
      "detection_min_size": 60,
      "detection_max_size": 1080,
      "line_detection_sw": 1,
      "region_detection_sw": 1,
      "loitering_detection_sw": 0,
      "loitering_send_interval": 300,
      "image_compression_ratio": 90,
      "render_result_sw": 1,
      "all_print_sw": 0,
      "render_roi_sw": 1,
      "target_roi": "{\\"lines\\":[{\\\"data\\\":[[560,680],[1185,506]],\\"properties\\":{\\\"side1_name\\\":\\\"Side1\\\",\\\"side2_name\\\":\\\"Side2\\\"}},\\"polygons\\":[{\\\"data\\\":[[0,0],[0,1080],[1920,1080],[1920,0]]}]}"}
    }
  }
}

```

- This request is used to create an intrusion detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-intrusiondetection-edge/tasks

```

{
  "name": "intrusiondetection-task",
  "description": "intrusiondetection task test",
  "input": {
    "type": "vcn",
    "data": [ {
      "device_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type": 2
    } ],
    "vcn": {

```

```

    "ip" : "127.0.0.1",
    "port" : 8080,
    "username" : "vcntest",
    "password" : "123456abcd"
  }
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "car_detection_sw" : 0,
    "person_detection_sw" : 1,
    "detection_min_size" : 60,
    "detection_max_size" : 1080,
    "line_detection_sw" : 1,
    "region_detection_sw" : 1,
    "loitering_detection_sw" : 0,
    "loitering_send_interval" : 300,
    "image_compression_ratio" : 90,
    "render_result_sw" : 1,
    "all_print_sw" : 0,
    "render_roi_sw" : 1,
    "target_roi" : "{\"lines\":[{\"data\":[[560,680],[1185,506]],\"properties\":{\"side1_name \\\": \"Side1\\\", \"side2_name\\\": \"Side2\\\"}}, \"polygons\":[{\"data\":[[0,0],[0,1080],[1920,1080],[1920,0]]}]}"
  }
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.3 Creating a Key Position On-Duty Inspection (Edge) Task

Function

This API is used to create a key position on-duty inspection (edge) task.

URI

POST /v2/{project_id}/services/c-staffonduty-edge/tasks

Table 4-35 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-36 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-37 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.

Parameter	Mandatory	Type	Description
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	StaffOnDuty ServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9.]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-38 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-39 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-40 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-41 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression <code>^.{1,100}\$</code> .
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression <code>^.{1,1000}\$</code> .

Table 4-42 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-43 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: " <code>^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$</code> "). Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-44 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-45 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-46 StaffOnDutyServiceConfig

Parameter	Mandatory	Type	Description
common	No	StaffOnDuty Common object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-47 StaffOnDutyCommon

Parameter	Mandatory	Type	Description
key_region_detection_sw	No	Integer	Corresponds to the Key Region Detection Switch parameter on the console. This parameter specifies whether to enable detection alarms. The options are as follows: <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. Minimum: 0 Maximum: 1 Default: 1
key_region_person_count	No	Integer	Corresponds to the Key Region Person Count parameter on the console. This parameter specifies the minimum number of on-duty staffs in a detection area. The value ranges from 1 to 100 and the default value is 2. Minimum: 1 Maximum: 100 Default: 2
key_region_detection_interval	No	Integer	Corresponds to the Key Region Detection Interval parameter on the console. This parameter specifies the detection interval of the specified area, in seconds. The value ranges from 1 to 3600 and the default value is 1. When the time is an integral multiple of the detection period, the algorithm is triggered to detect the number of on-duty staffs. Minimum: 1 Maximum: 3600 Default: 1

Parameter	Mandatory	Type	Description
key_region_detect_threshold	No	Integer	<p>Corresponds to the Key Region Detection Threshold parameter on the console.</p> <ul style="list-style-type: none"> Alarm triggering threshold, in the unit of the number of detection periods. The value ranges from 1 to 3600 and the default value is 60. If the alarm triggering threshold is N, when the number of on-duty staffs is less than the minimum number in N consecutive detection periods, an alarm is triggered. When an alarm is triggered or the number of on-duty staffs reaches the minimum number, the counting restarts until the number reaches the alarm triggering threshold again. <p>Minimum: 1 Maximum: 3600 Default: 60</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter indicates the detection area, which is a JSON string. An escape character must be added in an API call. You need to set the coordinates and names of the areas. Multi-area detection is supported. You need to enter different names for different areas. The default area name is Central_Area. The area is marked with a yellow bounding box in the alarm image. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[694,83], [718,406],[1202,422], [1204,78]], "name": "region-1"}, {"data": [[1379,164], [1407,649],[1872,700], [1844,206]], "name": "region-2"}, {"data": [[701,640], [718,918],[1296,921], [1286,634]], "name": "region-3"}]} If this parameter is not specified, the detection area is 1/4 of the entire video frame. If the image width is w and the image height is h, the positions of the four endpoints of the area are [[1/4w, 1/4h], [3/4w, 1/4h], [1/4w, 3/4h], [3/4w, 3/4h]].

Response Parameters

Status code: 200

Table 4-48 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-49 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-50 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-51 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause

Parameter	Type	Description
advice	String	Suggestion

Example Requests

- This request is used to create a key position on-duty inspection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-staffonduty-edge/tasks

```
{
  "name": "staffonduty-task",
  "description": "staffonduty task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{ \"polygons\": [{ \"data\": [[484,465],[1850,450],[1905,1013],[515,1050]] }, { \"data\": [[484,125],[1800,125],[1800,677],[495,677]] } ] }",
      "image_compression_ratio": 90,
      "key_region_detection_sw": 1,
      "key_region_detect_interval": 2,
      "key_region_detect_threshold": 2,
      "key_region_person_count": 50
    }
  }
}
```

- This request is used to create a key position on-duty inspection (edge) task, with the input type set to **edgecameras** and the output type set to **dis**.

POST /v2/{project_id}/services/c-staffonduty-edge/tasks

```
{
  "name": "staffonduty-task",
  "description": "staffonduty task test",
  "input": {
    "type": "edgecameras",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{ \"polygons\": [{ \"data\": [[484,465],[1850,450],[1905,1013],[515,1050]] }, { \"data\": [[484,125],[1800,125],[1800,677],[495,677]] } ] }",
      "image_compression_ratio": 90,
    }
  }
}
```

```

    "key_region_detection_sw" : 1,
    "key_region_detect_interval" : 2,
    "key_region_detect_threshold" : 2,
    "key_region_person_count" : 50
  }
}

```

- This request is used to create a key position on-duty inspection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-staffonduty-edge/tasks

```

{
  "name": "staffonduty-task",
  "description": "staffonduty task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[484,465],[1850,450],[1905,1013],[515,1050]]}, {\"data\": [[484,125],[1800,125],[1800,677],[495,677]]}]}",
      "image_compression_ratio": 90,
      "key_region_detection_sw": 1,
      "key_region_detect_interval": 2,
      "key_region_detect_threshold": 2,
      "key_region_person_count": 50
    }
  }
}

```

- This request is used to create a key position on-duty inspection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-staffonduty-edge/tasks

```

{
  "name": "staffonduty-task",
  "description": "staffonduty task test",
  "input": {
    "type": "vcn",
    "data": [ {
      "device_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type": 2
    } ],
    "vcn": {
      "ip": "127.0.0.1",
      "port": 8080,
      "username": "vcntest",
      "password": "123456abcd"
    }
  },
  "output": {
    "dis": {

```

```

    "stream_name" : "dis-test"
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "target_roi" : "{\"polygons\": [{\"data\": [[484,465],[1850,450],[1905,1013],[515,1050]]}, {\"data\": [[484,125],[1800,125],[1800,677],[495,677]]}]",
      "image_compression_ratio" : 90,
      "key_region_detection_sw" : 1,
      "key_region_detect_interval" : 2,
      "key_region_detect_threshold" : 2,
      "key_region_person_count" : 50
    }
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.4 Creating an Abandoned Object Detection (Edge) Task

Function

This API is used to create an abandoned object detection (edge) task.

URI

POST /v2/{project_id}/services/c-abandon-detection-edge/tasks

Table 4-52 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-53 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-54 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	AbandonServiceConfig object	Job configuration parameters.

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-55 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-56 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-57 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-58 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-59 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-60 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-61 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-62 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-63 AbandonServiceConfig

Parameter	Mandatory	Type	Description
common	No	AbandonCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-64 AbandonCommon

Parameter	Mandatory	Type	Description
detection_min_size	No	Integer	Corresponds to the Detection Minimum Size parameter on the console. This parameter specifies the minimum pixel value of the detection object. The value is in direct proportion to the resolution. In the 1080p resolution, the value ranges from 50 to 400 and the default value is 50 . Minimum: 50 Maximum: 400 Default: 50
alert_time_threshold	No	Integer	Corresponds to the Alert Time Threshold parameter on the console. This parameter specifies the threshold for generating an alarm for an abandoned object. When the duration that an object is abandoned exceeds the threshold (in the unit of seconds), an alarm will be generated. The value ranges from 10 to 300 and the default value is 10 . Minimum: 10 Maximum: 300 Default: 10

Parameter	Mandatory	Type	Description
alert_detection_interval	No	Integer	<p>Corresponds to the Alert Detection Interval parameter on the console. This parameter specifies the interval for detecting abandoned object alarms. If multiple alarms are generated in an interval (in the unit of seconds), they are combined into one alarm. The value ranges from 1 to 150 and the default value is 5. The recommended value ranges from 1 to 1/2 of the alert_time_threshold value.</p> <p>Minimum: 1 Maximum: 150 Default: 5</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> • This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. • Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} • If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-65 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-66 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-67 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-68 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details

Parameter	Type	Description
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an abandoned object detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-abandon-detection-edge/tasks
{
  "name": "abandon-detection-task",
  "description": "Abandon Detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "detection_min_size": 50,
      "alert_time_threshold": 10,
      "alert_detection_interval": 5,
      "image_compression_ratio": 80,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
      "render_result_sw": 1,
      "render_roi_sw": 1
    }
  }
}
```

- This request is used to create an abandoned object detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-abandon-detection-edge/tasks
{
  "name": "abandon-detection-task",
  "description": "Abandon Detection task test",
  "input": {
    "type": "vcn",
    "data": [ {
      "device_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type": 2
    } ],
    "vcn": {
      "ip": "127.0.0.1",
      "port": 8080,
    }
  }
}
```

```

    "username" : "vcntest",
    "password" : "123456abcd"
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "detection_min_size" : 50,
      "alert_time_threshold" : 10,
      "alert_detection_interval" : 5,
      "image_compression_ratio" : 80,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
      "render_result_sw" : 1,
      "render_roi_sw" : 1
    }
  }
}

```

- This request is used to create an abandoned object detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-abandon-detection-edge/tasks

```

{
  "name" : "abandon-detection-task",
  "description" : "Abandon Detection task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "detection_min_size" : 50,
      "alert_time_threshold" : 10,
      "alert_detection_interval" : 5,
      "image_compression_ratio" : 80,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
      "render_result_sw" : 1,
      "render_roi_sw" : 1
    }
  }
}

```

- This request is used to create an abandoned object detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-abandon-detection-edge/tasks

```

{
  "name" : "abandon-detection-task",
  "description" : "Abandon Detection task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "url" : "https://restfultest",

```

```

    "certificate_check" : false,
    "node_id" : "aec5857c-222f-4aa9-be39-23654e118886",
    "rtsp_path_in_response" : "http://testpath"
  } ]
},
"output" : {
  "webhook" : {
    "url" : "https://127.0.0.1:8080/webhook",
    "headers" : {
      "x-auth-token" : "tokentest"
    }
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "detection_min_size" : 50,
    "alert_time_threshold" : 10,
    "alert_detection_interval" : 5,
    "image_compression_ratio" : 80,
    "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]]}]",
    "render_result_sw" : 1,
    "render_roi_sw" : 1
  }
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.5 Creating a Crowd Density Monitoring (Edge) Task

Function

This API is used to create a crowd density monitoring (edge) task.

URI

POST /v2/{project_id}/services/c-crowdcount-edge/tasks

Table 4-69 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-70 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-71 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.

Parameter	Mandatory	Type	Description
config	No	CrowdCountsServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-72 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-73 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-74 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-75 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-76 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-77 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-78 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-79 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-80 CrowdCountServiceConfig

Parameter	Mandatory	Type	Description
common	No	CrowdCount Common object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-81 CrowdCountCommon

Parameter	Mandatory	Type	Description
alarm_threshold	No	String	<p>People count alarm thresholds. Default value: 50. The value must be a positive integer. When the number of people in a video frame is greater than or equal to the threshold, the video image is output in JSON format for alarm. You can enter different alarm thresholds for each ROI. The alarm thresholds are separated by spaces.</p> <ul style="list-style-type: none"> • If the number of alarm thresholds within the list is greater than the actual number of ROIs, the first alarm thresholds matching the number of ROIs are used. • If the number of alarm thresholds within the list is less than the actual number of ROIs, use the default value for the rest part. • For example, if there are three ROIs and three threshold values (25 30 20) are entered, the image is sent as long as one ROI alarm is generated. When there are only two values (25 15) are entered, the threshold of the third ROI will be defaulted to 50. When there are more than three threshold values (such as 25 36 23 40) are entered, the first three values (25 36 23) are automatically selected.

Parameter	Mandatory	Type	Description
sampling_time_interval	No	Integer	<p>Interval at which video sampling is performed. The default value is 10s. The value range is [5, 3600], seconds. By default, a video image is sampled every 10 seconds, and N frames will be skipped between every two image samplings.</p> <ul style="list-style-type: none"> $N = \text{sampling_time_interval} \times \text{Frame rate (fps)}$. For example, if the frame rate is 25 fps and the sampling interval is 1 second, 25 frames will be skipped between every two image samplings. <p>Minimum: 5 Maximum: 3600 Default: 10</p>
alert_mode	No	String	<p>Alarming mode. Default value: single. There are two alarm modes:</p> <ul style="list-style-type: none"> single: event alarming. An alarm is reported only when a new alarm event is generated and the number of people reaches the alarm threshold. periodic: periodic alarming. An alarm is reported each time a video sampling interval expires. <p>Default: single</p>
banner_detection_sw	No	Integer	<p>Whether to enable protest banner detection. The value ranges from 0 to 1 and the default value is 0. When the function is enabled, the system detects banners in the ROI area of video images.</p> <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
banner_thresh old	No	String	List of banner detection alarm thresholds. The default value is 1 . The value must be a positive integer. For details about how to use this parameter, see alarm_threshold .
visualization_ output_sw	No	Integer	Whether to send the edited video image with scenario information in it. The value ranges from 0 to 1 and the default value is 0 . By default, when the number of people in each ROI exceeds the alarm threshold, only the structured information of the original image is sent. The detected people and banners can be displayed only after the visualization function is enabled. The visualized alarm information in images for different scenarios is as follows: <ul style="list-style-type: none"> • Banners for protests are marked in red boxes. • If a densely populated area is detected, the area is rendered in different colors. • Each ROI is marked with a yellow polygon in the image. Minimum: 0 Maximum: 1 Default: 0

Parameter	Mandatory	Type	Description
density_sw	No	Integer	<p>Density estimation status. You can customize whether to use a density estimation model to evaluate the number of people. Use a density estimation model if the number of people is large and the alarm threshold is large.</p> <ul style="list-style-type: none"> A density estimation model is used by default. The value ranges from 0 to 1 and the default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-82 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-83 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-84 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-85 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details

Parameter	Type	Description
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a crowd density monitoring (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-crowdcount-edge/tasks

```
{
  "name": "crowdcount-edge-task",
  "description": "Crowdcountdetection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "banner_detection_sw": 1,
      "banner_threshold": "2",
      "alarm_threshold": "5",
      "sampling_time_interval": 8,
      "density_sw": 1,
      "visualization_output_sw": 1,
      "image_compression_ratio": 80,
      "target_roi": "{ \"polygons\": [ { \"data\": [ [100,100],[1800,100],[1800,1000],[100,1000]] } ] }"
    }
  }
}
```

- This request is used to create a crowd density monitoring (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-crowdcount-edge/tasks

```
{
  "name": "crowdcount-edge-task",
  "description": "Crowdcountdetection task test",
  "input": {
    "type": "vcn",
    "data": [ {
      "device_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type": 2
    } ],
    "vcn": {
      "ip": "127.0.0.1",

```



```

    "port" : 8080,
    "username" : "vcntest",
    "password" : "123456abcd"
  }
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "banner_detection_sw" : 1,
    "banner_threshold" : "2",
    "alarm_threshold" : "5",
    "sampling_time_interval" : 8,
    "density_sw" : 1,
    "visualization_output_sw" : 1,
    "image_compression_ratio" : 80,
    "target_roi" : "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
  }
}
}

```

- This request is used to create a crowd density monitoring (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-crowdcount-edge/tasks

```

{
  "name" : "crowdcount-edge-task",
  "description" : "Crowdcountdetection task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "crowdcount-edge"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "banner_detection_sw" : 1,
      "banner_threshold" : "2",
      "alarm_threshold" : "5",
      "sampling_time_interval" : 8,
      "density_sw" : 1,
      "visualization_output_sw" : 1,
      "image_compression_ratio" : 80,
      "target_roi" : "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
    }
  }
}

```

- This request is used to create a crowd density monitoring (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-crowdcount-edge/tasks

```

{
  "name" : "crowdcount-edge-task",
  "description" : "Crowdcountdetection task test",
  "input" : {

```

```

"type": "restful",
"data": [ {
  "url": "https://restfultest",
  "certificate_check": false,
  "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
  "rtsp_path_in_response": "http://testpath"
} ]
},
"output": {
  "webhook": {
    "url": "https://127.0.0.1:8080/webhook",
    "headers": {
      "x-auth-token": "tokentest"
    }
  }
},
"service_version": "3.0",
"resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config": {
  "common": {
    "banner_detection_sw": 1,
    "banner_threshold": "2",
    "alarm_threshold": "5",
    "sampling_time_interval": 8,
    "density_sw": 1,
    "visualization_output_sw": 1,
    "image_compression_ratio": 80,
    "target_roi": "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.6 Creating a Work Gear and Helmet Detection (Edge) Task

Function

This API is used to create a work gear and helmet detection (edge) task.

URI

POST /v2/{project_id}/services/c-safetysuitedetection-edge/tasks

Table 4-86 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-87 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-88 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.

Parameter	Mandatory	Type	Description
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	SafetySuitServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-89 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-90 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-91 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-92 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-93 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-94 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-95 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-96 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-97 SafetySuitServiceConfig

Parameter	Mandatory	Type	Description
common	No	SafetySuitCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-98 SafetySuitCommon

Parameter	Mandatory	Type	Description
hat_detection_sw	No	Integer	Corresponds to the Hat Detection Switch parameter on the console. The options are as follows: <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. Minimum: 0 Maximum: 1 Default: 1

Parameter	Mandatory	Type	Description
cloth_detection_sw	No	Integer	<p>Corresponds to the Clothes Detection Switch parameter on the console. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-99 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-100 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-101 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-102 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a work gear and helmet detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-safetysuitedetection-edge/tasks
```

```
{
  "name": "safetysuite-detection-task",
```

```

"description" : "safetysuite detection task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxxx"
  } ]
},
"output" : {
  "webhook" : {
    "url" : "https://127.0.0.1:8080/webhook",
    "headers" : {
      "x-auth-token" : "tokentest"
    }
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "hat_detection_sw" : 0,
    "cloth_detection_sw" : 1,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [84,389],[1840,349],[1824,526],[78,526]]}",
    "image_compression_ratio" : 90
  }
}
}

```

- This request is used to create a work gear and helmet detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-safetysuitedetection-edge/tasks

```

{
  "name" : "safetysuite-detection-task",
  "description" : "safetysuite detection task test",
  "input" : {
    "type" : "vcn",
    "data" : [ {
      "device_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type" : 2
    } ],
    "vcn" : {
      "ip" : "127.0.0.1",
      "port" : 8080,
      "username" : "vcntest",
      "password" : "123456abcd"
    }
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "hat_detection_sw" : 0,
      "cloth_detection_sw" : 1,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [84,389],[1840,349],[1824,526],[78,526]]}",
      "image_compression_ratio" : 90
    }
  }
}
}

```


- This request is used to create a work gear and helmet detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-safetysuitedetection-edge/tasks

```
{
  "name": "safetysuite-detection-task",
  "description": "safetysuite detection task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "hat_detection_sw": 0,
      "cloth_detection_sw": 1,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
      "image_compression_ratio": 90
    }
  }
}
```

- This request is used to create a work gear and helmet detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-safetysuitedetection-edge/tasks

```
{
  "name": "safetysuite-detection-task",
  "description": "safetysuite detection task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "hat_detection_sw": 0,
      "cloth_detection_sw": 1,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
      "image_compression_ratio": 90
    }
  }
}
```

```
}  
}
```

Example Responses

Status code: 200

Operation successful

```
{  
  "tasks": [ {  
    "id": "20690c67d71549c39085a3b28c18f24f"  
  } ]  
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.7 Creating a Smoke and Fire Detection (Edge) Task

Function

This API is used to create a smoke and fire detection (edge) task.

URI

POST /v2/{project_id}/services/c-smoke-and-fire-edge/tasks

Table 4-103 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-104 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-105 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	SmokeAndFireServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-106 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-107 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-108 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-109 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-110 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-111 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-112 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-113 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-114 SmokeAndFireServiceConfig

Parameter	Mandatory	Type	Description
common	No	SmokeAndFireCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-115 SmokeAndFireCommon

Parameter	Mandatory	Type	Description
video_sampl ing_interval	No	Integer	Corresponds to the Video Sampling Interval parameter on the console. The value ranges from 1 to 10 in the unit of seconds and the default value is 1 . Note: This parameter determines the detection frequency of the algorithm. If the interval increases, the maximum delay from smoke or fire occurrence to detection increases. Configure this parameter based on the acceptable response delay. Minimum: 1 Maximum: 10 Default: 1
fire_detection _sw	No	Integer	Corresponds to the Fire Detection Switch parameter on the console. The options are as follows: <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. Minimum: 0 Maximum: 1 Default: 1
smoke_detecti on_sw	No	Integer	Corresponds to the Smoke Detection Switch parameter on the console. The options are as follows: <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. Minimum: 0 Maximum: 1 Default: 1

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: When the alarm is for smoke, the alarm object border is drawn in purple. When the alarm is for fire, the alarm object border is drawn in red. <p>• The default value is 0. Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. <p>• The default value is 0. Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-116 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-117 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-118 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-119 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a smoke and fire detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-smoke-and-fire-edge/tasks

```
{
  "name": "fireandsmoke-detection-task",
  "description": "fireandsmoke detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
}
```

```
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_result_sw" : 1,
    "video_sampling_interval" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],
[228,24]]}]}",
    "render_roi_sw" : 1,
    "fire_detection_sw" : 1,
    "smoke_detection_sw" : 1
  }
}
```

- This request is used to create a smoke and fire detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-smoke-and-fire-edge/tasks

```
{
  "name" : "fireandsmoke-detection-task",
  "description" : "fireandsmoke detection task test",
  "input" : {
    "type" : "vcn",
    "data" : [ {
      "device_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type" : 2
    } ],
    "vcn" : {
      "ip" : "127.0.0.1",
      "port" : 8080,
      "username" : "vcntest",
      "password" : "123456abcd"
    }
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_result_sw" : 1,
      "video_sampling_interval" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],
[228,24]]}]}",
      "render_roi_sw" : 1,
      "fire_detection_sw" : 1,
      "smoke_detection_sw" : 1
    }
  }
}
```

- This request is used to create a smoke and fire detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-smoke-and-fire-edge/tasks

```
{
  "name" : "fireandsmoke-detection-task",
  "description" : "fireandsmoke detection task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_result_sw" : 1,
      "video_sampling_interval" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],
[228,24]]}]}",
      "render_roi_sw" : 1,
      "fire_detection_sw" : 1,
      "smoke_detection_sw" : 1
    }
  }
}
```



```
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_result_sw" : 1,
    "video_sampling_interval" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],[228,24]]}]}",
    "render_roi_sw" : 1,
    "fire_detection_sw" : 1,
    "smoke_detection_sw" : 1
  }
}
}
```

- This request is used to create a smoke and fire detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-smoke-and-fire-edge/tasks

```
{
  "name" : "fireandsmoke-detection-task",
  "description" : "fireandsmoke detection task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "url" : "https://restfultest",
      "certificate_check" : false,
      "node_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response" : "http://testpath"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://127.0.0.1:8080/webhook",
      "headers" : {
        "x-auth-token" : "tokentest"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_result_sw" : 1,
      "video_sampling_interval" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],[228,24]]}]}",
      "render_roi_sw" : 1,
      "fire_detection_sw" : 1,
      "smoke_detection_sw" : 1
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks" : [ {
```

```
"id" : "20690c67d71549c39085a3b28c18f24f"
}]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.8 Creating a Fight Detection (Edge) Task

Function

This API is used to create a fight detection (edge) task.

URI

POST /v2/{project_id}/services/c-fightdetect-edge/tasks

Table 4-120 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-121 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-122 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	FightDetectServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-123 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-124 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-125 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-126 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-127 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-128 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-129 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-130 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-131 FightDetectServiceConfig

Parameter	Mandatory	Type	Description
common	No	FightDetectCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-132 FightDetectCommon

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-133 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-134 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-135 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-136 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a fight detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-fightdetect-edge/tasks

```
{
  "name": "fight-detection-task",
  "description": "fight detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
}
```

```
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\" : [{\"data\" : [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],
[228,24]]}]}",
    "render_roi_sw" : 1
  }
}
```

- This request is used to create a fight detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-fightdetect-edge/tasks

```
{
  "name" : "fight-detection-task",
  "description" : "fight detection task test",
  "input" : {
    "type" : "vcn",
    "data" : [ {
      "device_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type" : 2
    } ],
    "vcn" : {
      "ip" : "127.0.0.1",
      "port" : 8080,
      "username" : "vcntest",
      "password" : "123456abcd"
    }
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\" : [{\"data\" : [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],
[228,24]]}]}",
      "render_roi_sw" : 1
    }
  }
}
```

- This request is used to create a fight detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-fightdetect-edge/tasks

```
{
  "name" : "fight-detection-task",
  "description" : "fight detection task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],[228,24]]}]}",
    "render_roi_sw" : 1
  }
}
```

- This request is used to create a fight detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-fightdetect-edge/tasks

```
{
  "name" : "fight-detection-task",
  "description" : "fight detection task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "url" : "https://restfultest",
      "certificate_check" : false,
      "node_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response" : "http://testpath"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://127.0.0.1:8080/webhook",
      "headers" : {
        "x-auth-token" : "tokentest"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],[228,24]]}]}",
      "render_roi_sw" : 1
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```


Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.9 Creating a Shared Bicycle Detection (Edge) Task

Function

This API is used to create a shared bicycle detection (edge) task.

URI

POST /v2/{project_id}/services/c-sharedbicycledetection-edge/tasks

Table 4-137 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-138 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-139 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	SharedBicycleServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-140 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-141 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-142 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-143 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-144 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-145 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-146 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-147 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-148 SharedBicycleServiceConfig

Parameter	Mandatory	Type	Description
common	No	SharedBicycleCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-149 SharedBicycleCommon

Parameter	Mandatory	Type	Description
alert_mode	No	String	Alarming mode. There are two alarm modes: <ul style="list-style-type: none"> • single: one-off alarming. When a specific event occurs, an alarm is generated and the event information is reported. • periodic: periodic alarming. An alarm is reported each time a detection period expires. • The default value is single.
alert_detection_interval	No	Integer	Corresponds to the Alert Detection Interval parameter on the console. This parameter specifies a parking violation detection period for shared bicycles, in seconds. The value ranges from 1 to 3600. Minimum: 1 Maximum: 3600 Default: 60
illegal_park_alert_threshold	No	Integer	Corresponds to the Illegal Park Alert Threshold parameter on the console. This parameter specifies an alarm triggering threshold, in seconds. The value ranges from 10 to 300. If a shared bicycle stays longer than the specified time, an alarm is reported. Minimum: 10 Maximum: 300 Default: 30

Parameter	Mandatory	Type	Description
all_print	No	Integer	<p>Whether to render all alarm objects in an output image. The value ranges from 0 to 1 and the default value is 0.</p> <ul style="list-style-type: none"> • 0: Draw the border of the target object for the current alarm only. For details about the rendering mode, see normal_render. • 1: Draw all alarmed shared bicycles with parking violations in an image. The color of the new alarm object is different from that of other rendered objects. • When normal_render is set to 0, the current alarm object is rendered in red boxes, a warning flag, and red background, and historical alarm objects are rendered in yellow boxes and yellow background. • When normal_render is set to 1, the current alarm object is rendered in light red boxes, and historical alarm objects are rendered in dark red boxes. • This field takes effect only when target box rendering is enabled. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to render the detection box in an output image. For details about the rendering mode, see normal_render. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
normal_rende r	No	Integer	<p>Classic rendering status. The value ranges from 0 to 1 and the default value is 0. When all_print is set to 0, the options for rendering an image object are as follows:</p> <ul style="list-style-type: none"> • When the value is 1, the object is marked in a red box. • When the value is 0, the object is marked in a red box with a red background, and a warning flag is marked in the upper left corner of the box. • When the value is 1, render the image based on the all_print value. For details, see all_print. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> • A parking-prohibited area is identified by "name":"illegal*". When a vehicle parks in the parking-prohibited area, a parking violation event is triggered. Other fields can be added after illegal as the flag of roi, for example, illegal01. • If the value of name is not starting with illegal, the area is a valid parking area by default. • The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. • Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "illegal01"}]} • If this parameter is not specified, the entire video frame is parking-prohibited by default.

Response Parameters

Status code: 200

Table 4-150 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-151 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-152 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-153 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a shared bicycle detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-sharedbicycledetection-edge/tasks
```

```
{
  "name": "shared-bicycle-detection-task",
```



```

"description" : "shared-bicycle detection task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxxx"
  } ]
},
"output" : {
  "webhook" : {
    "url" : "https://127.0.0.1:8080/webhook",
    "headers" : {
      "x-auth-token" : "tokentest"
    }
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "alert_mode" : "single",
    "alert_detection_interval" : 60,
    "illegal_park_alert_threshold" : 30,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"illegal01\"}]}",
    "image_compression_ratio" : 90
  }
}
}

```

- This request is used to create a shared bicycle detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-sharedbicycledetection-edge/tasks

```

{
  "name" : "shared-bicycle-detection-task",
  "description" : "shared-bicycle detection task test",
  "input" : {
    "type" : "vcn",
    "data" : [ {
      "device_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type" : 2
    } ],
    "vcn" : {
      "ip" : "127.0.0.1",
      "port" : 8080,
      "username" : "vcntest",
      "password" : "123456abcd"
    }
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alert_mode" : "single",
      "alert_detection_interval" : 60,
      "illegal_park_alert_threshold" : 30,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"illegal01\"}]}",
      "image_compression_ratio" : 90
    }
  }
}

```

- This request is used to create a shared bicycle detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-sharedbicycledetection-edge/tasks

```
{
  "name": "shared-bicycle-detection-task",
  "description": "shared-bicycle detection task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alert_mode": "single",
      "alert_detection_interval": 60,
      "illegal_park_alert_threshold": 30,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"illegal01\"}]}",
      "image_compression_ratio": 90
    }
  }
}
```

- This request is used to create a shared bicycle detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-sharedbicycledetection-edge/tasks

```
{
  "name": "shared-bicycle-detection-task",
  "description": "shared-bicycle detection task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alert_mode": "single",
      "alert_detection_interval": 60,
      "illegal_park_alert_threshold": 30,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"illegal01\"}]}",
    }
  }
}
```

```

    "image_compression_ratio" : 90
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.10 Creating an Individual Behavior Detection (Edge) Task

Function

This API is used to create an individual behavior detection (edge) task.

URI

POST /v2/{project_id}/services/c-event-action-recog-edge/tasks

Table 4-154 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-155 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-156 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	EventActionServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-157 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-158 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-159 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-160 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-161 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-162 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-163 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-164 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-165 EventActionServiceConfig

Parameter	Mandatory	Type	Description
common	No	EventActionCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-166 EventActionCommon

Parameter	Mandatory	Type	Description
smoking_detection_sw	No	Integer	<p>Corresponds to the Smoking Detection Switch parameter on the console. This parameter specifies whether to detect smoking for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. <p>Minimum: 0 Maximum: 1 Default: 1</p>
phoning_detection_sw	No	Integer	<p>Corresponds to the Phoning Detection Switch parameter on the console. This parameter specifies whether to detect phone calling for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. <p>Minimum: 0 Maximum: 1 Default: 0</p>
suspected_output_sw	No	Integer	<p>Corresponds to the Suspected Output Switch parameter on the console. This parameter determines whether to output alarms for suspected events. The options are as follows:</p> <ul style="list-style-type: none"> • 0: Alarms are not generated for suspected events. • 1: Alarms are generated for suspected events. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-167 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-168 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-169 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-170 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an individual behavior detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-event-action-recog-edge/tasks

```
{
  "name": "event-action-detection-task",
  "description": "event-action detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
}
```



```
"config" : {
  "common" : {
    "smoking_detection_sw" : 1,
    "phoning_detection_sw" : 0,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
    "image_compression_ratio" : 90,
    "suspected_output_sw" : 1
  }
}
```

- This request is used to create an individual behavior detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-event-action-recog-edge/tasks

```
{
  "name" : "event-action-detection-task",
  "description" : "event-action detection task test",
  "input" : {
    "type" : "vcn",
    "data" : [ {
      "device_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type" : 2
    } ],
    "vcn" : {
      "ip" : "127.0.0.1",
      "port" : 8080,
      "username" : "vcntest",
      "password" : "123456abcd"
    }
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "smoking_detection_sw" : 1,
      "phoning_detection_sw" : 0,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
      "image_compression_ratio" : 90,
      "suspected_output_sw" : 1
    }
  }
}
```

- This request is used to create an individual behavior detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-event-action-recog-edge/tasks

```
{
  "name" : "event-action-detection-task",
  "description" : "event-action detection task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {

```

```

    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "smoking_detection_sw" : 1,
    "phoning_detection_sw" : 0,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
    "image_compression_ratio" : 90,
    "suspected_output_sw" : 1
  }
}
}
}

```

- This request is used to create an individual behavior detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

```

POST /v2/{project_id}/services/c-event-action-recog-edge/tasks

{
  "name" : "event-action-detection-task",
  "description" : "event-action detection task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "url" : "https://restfultest",
      "certificate_check" : false,
      "node_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response" : "http://testpath"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://127.0.0.1:8080/webhook",
      "headers" : {
        "x-auth-token" : "tokentest"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "smoking_detection_sw" : 1,
      "phoning_detection_sw" : 0,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
      "image_compression_ratio" : 90,
      "suspected_output_sw" : 1
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.11 Creating an Individual Action Detection (Edge) Task

Function

This API is used to create an individual action detection (edge) task.

URI

POST /v2/{project_id}/services/c-pose-action-recog-edge/tasks

Table 4-171 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-172 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-173 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	PoseActionServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-174 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-175 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-176 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-177 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-178 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-179 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-180 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-181 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-182 PoseActionServiceConfig

Parameter	Mandatory	Type	Description
common	No	PoseActionCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-183 PoseActionCommon

Parameter	Mandatory	Type	Description
climb_detection_sw	No	Integer	<p>Corresponds to the Climb Detection Switch parameter on the console. This parameter specifies whether to detect climbing for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
fall_detection_sw	No	Integer	<p>Corresponds to the Fall Detection Switch parameter on the console. This parameter specifies whether to detect falling for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
wave_detection_sw	No	Integer	<p>Corresponds to the Wave Detection Switch parameter on the console. This parameter specifies whether to detect waving for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
bend_detection_sw	No	Integer	<p>Corresponds to the Bend Detection Switch parameter on the console. This parameter specifies whether to detect bending for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-184 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-185 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-186 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-187 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an individual action detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-pose-action-recog-edge/tasks
{
  "name": "pose-action-detection-task",
```



```

"description" : "pose-action detection task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxx"
  } ]
},
"output" : {
  "webhook" : {
    "url" : "https://127.0.0.1:8080/webhook",
    "headers" : {
      "x-auth-token" : "tokentest"
    }
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "climb_detection_sw" : 1,
    "fall_detection_sw" : 0,
    "wave_detection_sw" : 0,
    "bend_detection_sw" : 0,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
    "image_compression_ratio" : 90
  }
}
}

```

- This request is used to create an individual action detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-pose-action-recog-edge/tasks

```

{
  "name" : "pose-action-detection-task",
  "description" : "pose-action detection task test",
  "input" : {
    "type" : "vcn",
    "data" : [ {
      "device_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type" : 2
    } ],
    "vcn" : {
      "ip" : "127.0.0.1",
      "port" : 8080,
      "username" : "vcntest",
      "password" : "123456abcd"
    }
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "climb_detection_sw" : 1,
      "fall_detection_sw" : 0,
      "wave_detection_sw" : 0,
      "bend_detection_sw" : 0,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
      "image_compression_ratio" : 90
    }
  }
}

```

- This request is used to create an individual action detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-pose-action-recog-edge/tasks

```
{
  "name": "pose-action-detection-task",
  "description": "pose-action detection task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "climb_detection_sw": 1,
      "fall_detection_sw": 0,
      "wave_detection_sw": 0,
      "bend_detection_sw": 0,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
      "image_compression_ratio": 90
    }
  }
}
```

- This request is used to create an individual action detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-pose-action-recog-edge/tasks

```
{
  "name": "pose-action-detection-task",
  "description": "pose-action detection task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "climb_detection_sw": 1,
      "fall_detection_sw": 0,
      "wave_detection_sw": 0,
    }
  }
}
```

```

    "bend_detection_sw" : 0,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]",
    "image_compression_ratio" : 90
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.12 Creating a Mask Detection (Edge) Task

Function

This API is used to create a mask detection (edge) task.

URI

POST /v2/{project_id}/services/c-wear-mask-recog-edge/tasks

Table 4-188 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-189 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-190 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	WearMaskServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-191 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-192 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-193 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-194 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-195 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-196 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([^\:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-197 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-198 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-199 WearMaskServiceConfig

Parameter	Mandatory	Type	Description
common	No	WearMaskCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-200 WearMaskCommon

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-201 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-202 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-203 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-204 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a mask detection (cloud) task., with the input type set to **video_source** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-wear-mask-recog-edge/tasks

```
{
  "name": "wearmask-task",
  "description": "wearmask detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
}
```

```
"config" : {
  "common" : {
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
    "image_compression_ratio" : 90
  }
}
```

- This request is used to create a mask detection (cloud) task., with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-wear-mask-recog-edge/tasks

```
{
  "name": "wearmask-task",
  "description": "wearmask detection task test",
  "input": {
    "type": "vcn",
    "data": [ {
      "device_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type": 2
    } ],
    "vcn": {
      "ip": "127.0.0.1",
      "port": 8080,
      "username": "vcntest",
      "password": "123456abcd"
    }
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
      "image_compression_ratio" : 90
    }
  }
}
```

- This request is used to create a mask detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-wear-mask-recog-edge/tasks

```
{
  "name": "wearmask-task",
  "description": "wearmask detection task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
```



```

"common" : {
  "render_result_sw" : 1,
  "render_roi_sw" : 1,
  "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
  "image_compression_ratio" : 90
}
}
}

```

- This request is used to create a mask detection (cloud) task., with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-wear-mask-recog-edge/tasks

```

{
  "name": "wearmask-task",
  "description": "wearmask detection task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
      "image_compression_ratio" : 90
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error

Status Code	Description
500	Internal error

Error Codes

See [Error Codes](#).

4.1.13 Creating an Abnormal Parking Detection (Edge) Task

Function

This API is used to create an abnormal parking detection (edge) task.

URI

POST /v2/{project_id}/services/c-traffic-abnormal-park-edge/tasks

Table 4-205 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-206 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-207 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	AbnormalParkServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-208 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-209 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-210 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-211 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-212 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-213 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-214 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-215 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-216 AbnormalParkServiceConfig

Parameter	Mandatory	Type	Description
common	No	AbnormalParkCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-217 AbnormalParkCommon

Parameter	Mandatory	Type	Description
license_plate	No	LicensePlate object	License plate information.

Parameter	Mandatory	Type	Description
abnormal_park_threshold	No	Integer	<p>Parking time threshold, in seconds. If a vehicle is parked longer than this value, an abnormal parking alarm is reported. The value range is [20, 3600]. The maximum parking threshold can be 1 hour.</p> <p>Minimum: 20 Maximum: 3600 Default: 20</p>
abnormal_park_output_interval	No	Integer	<p>Interval for reporting the same abnormal parking alarm again, in seconds. The default value is 30. The value range is [30,86400]. The maximum interval is 24 hours. Note: The value is max (abnormal_park_threshold, abnormal_park_output_interval).</p> <p>Minimum: 30 Maximum: 86400 Default: 30</p>
output_image_sw	No	Integer	<p>Whether to output an image. Value 1 means to output an image, and 0 means the opposite. Other values are invalid. The default value is 1.</p> <p>Minimum: 0 Maximum: 1 Default: 1</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
event_disappear_alert_sw	No	Integer	<p>Corresponds to the Event Disappear Alert Switch parameter on the console. This parameter specifies whether to generate an alarm if a misparked vehicle moves. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Image compression ratio. The value range is [20, 100] and the default value is 95. If the value is 80, the definition of the output image is 80% of that of the original image. A smaller value indicates a more blurred image and a smaller amount of image data to be received.</p> <p>Minimum: 20 Maximum: 100 Default: 95</p>

Parameter	Mandatory	Type	Description
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi.</p> <ul style="list-style-type: none"> • Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}, {"name": "polygon"}]} • If this parameter is not specified, the detection area is the entire video frame.

Table 4-218 LicensePlate

Parameter	Mandatory	Type	Description
local_city	No	String	Default city abbreviation. The value ranges from A to Z. The default value is A .

Parameter	Mandatory	Type	Description
local_province	No	String	Default province abbreviation. Range set: (Jing, Jin, Ji, Meng, Jin, Hu, *Wan, Su, Zhe, Lu, Min, Gan, Yue, Gui, Qiong, Yu, E, Xiang, Hei, Ji, Liao, Shan, Gan, Ning, Qing, Xin, Yu, Chuan, Yun, Gui, Zang, Gang, Ao, Tai).

Response Parameters

Status code: 200

Table 4-219 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-220 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-221 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-222 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an abnormal parking detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-traffic-abnormal-park-edge/tasks

```
{
  "name": "abnormalpark-task",
  "description": "abnormalpark detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[50,756],[50,756],[50,756],[100,616]], \"name\": \"a\"}, {\"data\": [[50,256],[50,756],[50,756],[100,116]], \"name\": \"b\"}]}",
      "license_plate": {
        "local_city": "B",
        "local_province": "Jin"
      }
    },
    "abnormal_park_threshold": 180,
    "abnormal_park_output_interval": 180,
    "output_image_sw": 1,
    "render_result_sw": 1,
    "render_roi_sw": 1,
    "event_disappear_alert_sw": 0,
    "image_compression_ratio": 100
  }
}
```


- This request is used to create an abnormal parking detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-traffic-abnormal-park-edge/tasks

```
{
  "name": "abnormalpark-task",
  "description": "abnormalpark detection task test",
  "input": {
    "type": "vcn",
    "data": [ {
      "device_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type": 2
    } ],
    "vcn": {
      "ip": "127.0.0.1",
      "port": 8080,
      "username": "vcntest",
      "password": "123456abcd"
    }
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[50,756],[50,756],[50,756],[100,616]], \"name\": \"a\"}, {\"data\": [[50,256],[50,756],[50,756],[100,116]], \"name\": \"b\"}]}",
      "license_plate": {
        "local_city": "B",
        "local_province": "Jin"
      },
      "abnormal_park_threshold": 180,
      "abnormal_park_output_interval": 180,
      "output_image_sw": 1,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "event_disappear_alert_sw": 0,
      "image_compression_ratio": 100
    }
  }
}
```

- This request is used to create an abnormal parking detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-traffic-abnormal-park-edge/tasks

```
{
  "name": "abnormalpark-task",
  "description": "abnormalpark detection task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
```

```

"common" : {
  "target_roi" : "{\"polygons\": [{\"data\": [[50,756],[50,756],[50,756],[100,616]], \"name\": \"a\"}, {\"data\": [[50,256],[50,756],[50,756],[100,116]], \"name\": \"b\"}]}",
  "license_plate" : {
    "local_city" : "B",
    "local_province" : "Jin"
  },
  "abnormal_park_threshold" : 180,
  "abnormal_park_output_interval" : 180,
  "output_image_sw" : 1,
  "render_result_sw" : 1,
  "render_roi_sw" : 1,
  "event_disappear_alert_sw" : 0,
  "image_compression_ratio" : 100
}
}
}

```

- This request is used to create an abnormal parking detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-traffic-abnormal-park-edge/tasks

```

{
  "name" : "abnormalpark-task",
  "description" : "abnormalpark detection task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "url" : "https://restfultest",
      "certificate_check" : false,
      "node_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response" : "http://testpath"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://127.0.0.1:8080/webhook",
      "headers" : {
        "x-auth-token" : "tokentest"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "target_roi" : "{\"polygons\": [{\"data\": [[50,756],[50,756],[50,756],[100,616]], \"name\": \"a\"}, {\"data\": [[50,256],[50,756],[50,756],[100,116]], \"name\": \"b\"}]}",
      "license_plate" : {
        "local_city" : "B",
        "local_province" : "Jin"
      },
      "abnormal_park_threshold" : 180,
      "abnormal_park_output_interval" : 180,
      "output_image_sw" : 1,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "event_disappear_alert_sw" : 0,
      "image_compression_ratio" : 100
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.14 Creating a Vehicle Detection (Edge) Task

Function

This API is used to create a vehicle detection (edge) task.

URI

POST /v2/{project_id}/services/c-vehicle-detection-edge/tasks

Table 4-223 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-224 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-225 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	VehicleServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-226 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-227 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-228 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-229 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-230 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-231 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-232 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-233 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-234 VehicleServiceConfig

Parameter	Mandatory	Type	Description
common	No	VehicleCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-235 VehicleCommon

Parameter	Mandatory	Type	Description
license_plate	No	LicensePlate object	License plate information.

Parameter	Mandatory	Type	Description
output_vehicle_type	No	String	<p>Vehicle model information. Separate multiple vehicle models by spaces. If this parameter is left blank, all vehicle models are displayed by default. For example, 0 1 2 indicates that only information about vehicle models 0, 1, and 2 is output. Currently, the options are as follows:</p> <ul style="list-style-type: none"> ● 0: car ● 1: dump truck ● 2: trailer ● 3: cement mixer ● 4: sanitation vehicle ● 5: crane ● 6: pickup truck ● 7: bus ● 8: fuel tanker ● 9: others
output_image_sw	No	Integer	<p>Whether to output an image. Value 1 means to output an image, and 0 means the opposite. Other values are invalid. The default value is 1.</p> <p>Minimum: 0 Maximum: 1 Default: 1</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> ● 0: No border will be drawn. ● 1: A red border will be drawn. ● The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. If the value is 80 , the definition of the output image is 80% of that of the original image. A smaller value indicates a more blurred image and a smaller amount of image data to be received. Minimum: 20 Maximum: 100 Default: 100

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter defines the vehicle detection area with a departure line and a parking line. You use type of the lines to distinguish a departure line from a parking line. The value 0 indicates the parking line, and the value 1 indicates the departure line. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi.</p> <ul style="list-style-type: none"> • By default, the parking line is below the departure line. When a vehicle is parking and touches the parking line, the detection result is reported. When the vehicle is departing and touches the departure line, the detection result is reported. • The parking line is horizontal by default and is drawn at the position where the height from the top of the ROI area accounts for 70% of the height of the ROI area. Assume that the image width is w, the height of the ROI area is h, and the Y coordinate of the top of the ROI area is y. The default position of the parking line is [[0,y+h*0.7-1],[w-1,y+h*0.7-1]]. • The departure line is horizontal by default and is drawn at the position where the distance between the departure line and the top of the image accounts for 50% of the image height. Assume that

Parameter	Mandatory	Type	Description
			<p>the image width is w, the height of the ROI area is h, and the Y coordinate of the top of the ROI area is y. The default position of the departure line is [[0,y+h0.5-1],[w-1,y+h0.5-1]].</p> <ul style="list-style-type: none"> Example value: {"lines": [{"data": [[50,756], [100,616]], "properties": {"type": "0"}}, {"data": [[50,256], [100,116]], "properties": {"type": "1"}}, {"polygons": [{"data": [[487,465], [1850,450], [1905,1013], [515,1050]]}]}

Table 4-236 LicensePlate

Parameter	Mandatory	Type	Description
local_city	No	String	Default city abbreviation. The value ranges from A to Z. The default value is A .
local_province	No	String	Default province abbreviation. Range set: (Jing, Jin, Ji, Meng, Jin, Hu, *Wan, Su, Zhe, Lu, Min, Gan, Yue, Gui, Qiong, Yu, E, Xiang, Hei, Ji, Liao, Shan, Gan, Ning, Qing, Xin, Yu, Chuan, Yun, Gui, Zang, Gang, Ao, Tai).

Response Parameters

Status code: 200

Table 4-237 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-238 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-239 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-240 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a vehicle detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-vehicle-detection-edge/tasks
```

```
{
  "name": "vehicle-task",
```

```

"description" : "vehicle detection task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxx-xxxxxx-xxxxx-xxxxxx"
  } ]
},
"output" : {
  "webhook" : {
    "url" : "https://127.0.0.1:8080/webhook",
    "headers" : {
      "x-auth-token" : "tokentest"
    }
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "target_roi" : "{\"lines\":{\"data\":[[50,756],[100,616]],\"properties\":{\"type\":\"0\"},{\"data\":[[50,256],[100,116]],\"properties\":{\"type\":\"1\"}},\"polygons\":{\"data\":[[487,465],[1850,450],[1905,1013],[515,1050]]}}",
    "license_plate" : {
      "local_city" : "B",
      "local_province" : "Jin"
    },
    "output_image_sw" : 1,
    "image_compression_ratio" : 100
  }
}
}

```

- This request is used to create a vehicle detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-vehicle-detection-edge/tasks

```

{
  "name" : "vehicle-task",
  "description" : "vehicle detection task test",
  "input" : {
    "type" : "vcn",
    "data" : [ {
      "device_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type" : 2
    } ],
    "vcn" : {
      "ip" : "127.0.0.1",
      "port" : 8080,
      "username" : "vcntest",
      "password" : "123456abcd"
    }
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "target_roi" : "{\"lines\":{\"data\":[[50,756],[100,616]],\"properties\":{\"type\":\"0\"},{\"data\":[[50,256],[100,116]],\"properties\":{\"type\":\"1\"}},\"polygons\":{\"data\":[[487,465],[1850,450],[1905,1013],[515,1050]]}}",
      "license_plate" : {
        "local_city" : "B",
        "local_province" : "Jin"
      },
      "output_image_sw" : 1,

```

```

    "image_compression_ratio" : 100
  }
}

```

- This request is used to create a vehicle detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-vehicle-detection-edge/tasks

```

{
  "name": "vehicle-task",
  "description": "vehicle detection task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"lines\": [{\"data\": [[50,756],[100,616]], \"properties\": {\"type\": \"0\"}}, {\"data\": [[50,256],[100,116]], \"properties\": {\"type\": \"1\"}}, {\"polygons\": [{\"data\": [[487,465],[1850,450],[1905,1013],[515,1050]]}]}",
      "license_plate": {
        "local_city": "B",
        "local_province": "Jin"
      },
      "output_image_sw": 1,
      "image_compression_ratio": 100
    }
  }
}

```

- This request is used to create a vehicle detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-vehicle-detection-edge/tasks

```

{
  "name": "vehicle-task",
  "description": "vehicle detection task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {

```

```

        "target_roi" : "{ \"lines\": [{ \"data\": [[50,756],[100,616]], \"properties\": { \"type\": \"0\" }, { \"data\": [[50,256],[100,116]], \"properties\": { \"type\": \"1\" } } ], \"polygons\": [{ \"data\": [[487,465],[1850,450],[1905,1013],[515,1050]] } ] }",
        "license_plate" : {
            "local_city" : "B",
            "local_province" : "Jin"
        },
        "output_image_sw" : 1,
        "image_compression_ratio" : 100
    }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.15 Creating a Fire Passage Obstruction Detection (Edge) Task

Function

This API is used to create a fire passage obstruction detection (edge) task.

URI

POST /v2/{project_id}/services/c-fire-exit-occupation-edge/tasks

Table 4-241 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-242 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-243 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	FireExitServiceConfig object	Job configuration parameters.

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-244 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-245 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-246 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-247 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-248 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-249 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-250 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-251 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-252 FireExitServiceConfig

Parameter	Mandatory	Type	Description
common	No	FireExitCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-253 FireExitCommon

Parameter	Mandatory	Type	Description
stacking_occupation_sw	No	Integer	Corresponds to the Stacking Occupation Switch parameter on the console. The options are as follows: <ul style="list-style-type: none"> ● 0: This function is disabled. ● 1: This function is enabled. ● The default value is 1. Minimum: 0 Maximum: 1 Default: 1

Parameter	Mandatory	Type	Description
vehicle_occupation_sw	No	Integer	<p>Corresponds to the Detect Vehicle on the console. Available values are as follows:</p> <ul style="list-style-type: none"> • 0: Detection at night is disabled. • 1: Detection at night is enabled. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
stacking_residence_time	No	Integer	<p>Corresponds to the Stacking Residence Time parameter on the console. This parameter specifies the maximum duration (in seconds) that stock can be kept on the roadside (when there are no obstacles). The value range is [10, 3600], and the default value is 40.</p> <p>Minimum: 10 Maximum: 3600 Default: 40</p>
vehicle_residence_time	No	Integer	<p>Corresponds to the Vehicle Residence Time parameter on the console. This parameter specifies the maximum period (in seconds) that a vehicle can stay (when there are no obstacles). The value range is [10, 3600], and the default value is 50.</p> <p>Minimum: 10 Maximum: 3600 Default: 50</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: The algae area will be rendered. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: The algae area will be rendered. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
event_disappear_alert_sw	No	Integer	<p>Corresponds to the Event Disappear Alert Switch parameter on the console. Options:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value range is [20, 100]. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi.</p> <ul style="list-style-type: none"> You can set a name for each region, for example, {"polygons":[{"data": [[84,389], [1840,349], [1824,526], and [78,526]], "name": "polygon"}]}. The region name will be displayed in the result. If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-254 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-255 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-256 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-257 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a fire passage obstruction detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-fire-exit-occupation-edge/tasks
```

```
{
  "name": "fireexit-task",
```

```

"description" : "fireexit task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxx-xxxxxx-xxxxx-xxxxxx"
  } ]
},
"output" : {
  "webhook" : {
    "url" : "https://127.0.0.1:8080/webhook",
    "headers" : {
      "x-auth-token" : "tokentest"
    }
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "event_disappear_alert_sw" : 0,
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "stacking_occupation_sw" : 1,
    "vehicle_occupation_sw" : 1,
    "stacking_residence_time" : 40,
    "vehicle_residence_time" : 50,
    "target_roi" : "{\"polygons\": [{\"data\": [[0, 0], [0, 1000], [1920, 1000], [1920, 0]]}]}"
  }
}
}

```

- This request is used to create a fire passage obstruction detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-fire-exit-occupation-edge/tasks

```

{
  "name" : "fireexit-task",
  "description" : "fireexit task test",
  "input" : {
    "type" : "vcn",
    "data" : [ {
      "device_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type" : 2
    } ],
    "vcn" : {
      "ip" : "127.0.0.1",
      "port" : 8080,
      "username" : "vcntest",
      "password" : "123456abcd"
    }
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "event_disappear_alert_sw" : 0,
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "stacking_occupation_sw" : 1,
      "vehicle_occupation_sw" : 1,
      "stacking_residence_time" : 40,
      "vehicle_residence_time" : 50,
    }
  }
}

```

```

    "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 0, 0 ], [ 0, 1000 ], [ 1920, 1000 ], [ 1920, 0 ] ] } ] }"
  }
}

```

- This request is used to create a fire passage obstruction detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-fire-exit-occupation-edge/tasks

```

{
  "name": "fireexit-task",
  "description": "fireexit task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "event_disappear_alert_sw": 0,
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "stacking_occupation_sw": 1,
      "vehicle_occupation_sw": 1,
      "stacking_residence_time": 40,
      "vehicle_residence_time": 50,
      "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 0, 0 ], [ 0, 1000 ], [ 1920, 1000 ], [ 1920, 0 ] ] } ] }"
    }
  }
}

```

- This request is used to create a fire passage obstruction detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-fire-exit-occupation-edge/tasks

```

{
  "name": "fireexit-task",
  "description": "fireexit task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {

```

```
"event_disappear_alert_sw" : 0,  
"image_compression_ratio" : 90,  
"render_roi_sw" : 1,  
"render_result_sw" : 1,  
"stacking_occupation_sw" : 1,  
"vehicle_occupation_sw" : 1,  
"stacking_residence_time" : 40,  
"vehicle_residence_time" : 50,  
"target_roi" : "{\"polygons\": [{\"data\": [[0, 0], [0, 1000], [1920, 1000], [1920, 0]]}]}"  
}  
}
```

Example Responses

Status code: 200

Operation successful

```
{  
  "tasks" : [ {  
    "id" : "20690c67d71549c39085a3b28c18f24f"  
  } ]  
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.16 Creating a Non-motorized Vehicle Detection (Edge) Task

Function

This API is used to create a non-motorized vehicle detection (edge) task.

URI

POST /v2/{project_id}/services/c-non-motor-detection-edge/tasks

Table 4-258 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-259 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-260 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	NonMotorServiceConfig object	Job configuration parameters.

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-261 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-262 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-263 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-264 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-265 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-266 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-267 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-268 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-269 NonMotorServiceConfig

Parameter	Mandatory	Type	Description
common	No	NonMotorCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-270 NonMotorCommon

Parameter	Mandatory	Type	Description
illegal_park_detection_sw	No	Integer	<p>Corresponds to the Illegal Park Detection Switch parameter on the console. This parameter specifies whether to enable parking violation detection. The value range is [0,1].</p> <ul style="list-style-type: none"> • 0: Parking violation detection is disabled. • 1: Parking violation detection is enabled. • Default value: 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
illegal_park_alert_threshold	No	Integer	<p>Corresponds to the Illegal Park Alert Threshold parameter on the console. This parameter specifies the time threshold for triggering an alarm. It takes effect only when illegal_park_detection_sw=1 is set. The unit is second. The value range is [10,3600]. If an electric vehicle stays longer than the specified time, an alarm is reported. The default value is 30.</p> <p>Minimum: 10 Maximum: 3600 Default: 30</p>
intrusion_detection_sw	No	Integer	<p>Corresponds to the Intrusion Detection Switch parameter on the console.</p> <ul style="list-style-type: none"> • 0: Intrusion events detection is disabled. • 1: Intrusion events detection is enabled. • Default value: 0 <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
electromobile_detect_sw	No	Integer	<p>Corresponds to the Electromobile Detect Switch parameter on the console.</p> <ul style="list-style-type: none"> • 0: Electric scooter detection is disabled. • 1: Electric scooter detection is enabled. • Default value: 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
bicycle_detect_sw	No	Integer	<p>Corresponds to Bicycle Detect Switch on the console.</p> <ul style="list-style-type: none"> • 0: Bicycle detection is disabled. • 1: Bicycle detection is enabled. • Default value: 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A parking area will be drawn in green, and a no parking area set by the user will be drawn in yellow. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
event_disappear_alert_sw	No	Integer	<p>Corresponds to the Event Disappear Alert Switch parameter on the console. Options:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value range is [20, 100]. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies an ROI that consists of parking area, no parking area, and no entry area.</p> <ul style="list-style-type: none"> • Parking area, which is identified by "name":"legal_area". If an electric scooter parks outside the parking area, a parking violation event is reported. • No parking area, which is identified by "name":"illegal_area". If an electric scooter parks in a no parking area, a parking violation event is reported. • No entry area, which is identified by "name":"prohibit_entering_area". If an electric scooter intrudes into this area, an intrusion event is reported. • The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. • Example value: {"polygons": [{"data": [[43,266], [42,645], [472,644], [416,212]], "name": "legal_area"}, {"data": [[311,182], [282,670], [941,661], [835,170]], "name": "prohibit_entering_area"}, {"data": [[1272,592], [1481,813], [1623,638], [1293,356]], "name": "illegal_area"}]}. If both legal_area and illegal_area are set, illegal_area will be used. In this case, only the no parking area is rendered.

Parameter	Mandatory	Type	Description
			<ul style="list-style-type: none"> If this parameter is left blank, the entire area is an no parking area by default, and the entire area is a no entry area.

Response Parameters

Status code: 200

Table 4-271 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-272 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-273 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-274 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a non-motorized vehicle detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-non-motor-detection-edge/tasks
```

```
{
  "name": "nonmotor-task",
  "description": "nonmotor task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "event_disappear_alert_sw": 0,
      "illegal_park_detection_sw": 1,
      "illegal_park_alert_threshold": 30,
      "intrusion_detection_sw": 0,
      "electromobile_detect_sw": 1,
      "bicycle_detect_sw": 1,
      "target_roi": "{ \"polygons\": [{ \"data\": [[43,266],[42,645],[472,644],[416,212]], \"name\": \"legal_area\" }, { \"data\": [[311,182],[282,670],[941,661],[835,170]], \"name\": \"prohibit_entering_area\" } ] }",
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "image_compression_ratio": 90
    }
  }
}
```

- This request is used to create a non-motorized vehicle detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-non-motor-detection-edge/tasks
```

```
{
  "name": "nonmotor-task",
  "description": "nonmotor task test",
  "input": {
    "type": "vcn",
    "data": [ {
      "device_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type": 2
    } ],
    "vcn": {
      "ip": "127.0.0.1",
      "port": 8080,
      "username": "vcntest",
      "password": "123456abcd"
    }
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "event_disappear_alert_sw": 0,
      "illegal_park_detection_sw": 1,
      "illegal_park_alert_threshold": 30,
      "intrusion_detection_sw": 0,
      "electromobile_detect_sw": 1,
      "bicycle_detect_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[43,266],[42,645],[472,644],[416,212]],\"name\": \"legal_area\"}], {\"data\": [[311,182],[282,670],[941,661],[835,170]],\"name\": \"prohibit_entering_area\"}}\",
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "image_compression_ratio": 90
    }
  }
}
```

- This request is used to create a non-motorized vehicle detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-non-motor-detection-edge/tasks

```
{
  "name": "nonmotor-task",
  "description": "nonmotor task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "event_disappear_alert_sw": 0,
      "illegal_park_detection_sw": 1,
      "illegal_park_alert_threshold": 30,
      "intrusion_detection_sw": 0,
      "electromobile_detect_sw": 1,

```

```

        "bicycle_detect_sw" : 1,
        "target_roi" : "{\\"polygons\\":{\\"data\\":[[43,266],[42,645],[472,644],[416,212]],\\"name
\\":\\"legal_area\\"},{\\"data\\":[[311,182],[282,670],[941,661],[835,170]],\\"name
\\":\\"prohibit_entering_area\\"}}}",
        "render_result_sw" : 1,
        "render_roi_sw" : 1,
        "image_compression_ratio" : 90
    }
}
}

```

- This request is used to create a non-motorized vehicle detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-non-motor-detection-edge/tasks

```

{
  "name": "nonmotor-task",
  "description": "nonmotor task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "event_disappear_alert_sw": 0,
      "illegal_park_detection_sw": 1,
      "illegal_park_alert_threshold": 30,
      "intrusion_detection_sw": 0,
      "electromobile_detect_sw": 1,
      "bicycle_detect_sw": 1,
      "target_roi": "{\\"polygons\\":{\\"data\\":[[43,266],[42,645],[472,644],[416,212]],\\"name
\\":\\"legal_area\\"},{\\"data\\":[[311,182],[282,670],[941,661],[835,170]],\\"name
\\":\\"prohibit_entering_area\\"}}}",
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "image_compression_ratio": 90
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.17 Creating a Trash Can Anomaly Detection (Edge) Task

Function

This API is used to create a trash can anomaly detection (edge) task.

URI

POST /v2/{project_id}/services/c-trash-abnormal-detect-edge/tasks

Table 4-275 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-276 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-277 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	TrashAbnormalServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-278 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-279 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-280 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-281 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-282 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-283 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-284 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-285 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-286 TrashAbnormalServiceConfig

Parameter	Mandatory	Type	Description
common	No	TrashAbnormalCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-287 TrashAbnormalCommon

Parameter	Mandatory	Type	Description
alert_time_threshold	No	Integer	Corresponds to the Alert Time Threshold on the console. An alarm is reported if a trash can status is abnormal for the duration specified by this parameter. Value range: [30, 3600] (in seconds) Default value: 30 Minimum: 30 Maximum: 3600 Default: 30

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies the area for trash can detection. If an abnormal status of a trash can in this area is detected, an alarm is triggered.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[43,266], [42,645], [472,644], [416,212]]}, {"data": [[311,182], [282,670], [941,661], [835,170]]}]} If this parameter is left blank, the entire area is the detection area by default.

Response Parameters

Status code: 200

Table 4-288 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-289 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-290 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-291 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a trash can anomaly detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-trash-abnormal-detect-edge/tasks
```

```
{
  "name": "trashabnormal-task",
  "description": "trashabnormal task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  }
}
```

```

    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alert_time_threshold": 30,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[43,266],[42,645],[472,644],[416,212]]}, {\"data\": [[311,182],[282,670],[941,661],[835,170]]}]}",
      "image_compression_ratio": 80
    }
  }
}

```

- This request is used to create a trash can anomaly detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

```

POST /v2/{project_id}/services/c-trash-abnormal-detect-edge/tasks

{
  "name": "trashabnormal-task",
  "description": "trashabnormal task test",
  "input": {
    "type": "vcn",
    "data": [ {
      "device_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type": 2
    } ],
    "vcn": {
      "ip": "127.0.0.1",
      "port": 8080,
      "username": "vcntest",
      "password": "123456abcd"
    }
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alert_time_threshold": 30,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[43,266],[42,645],[472,644],[416,212]]}, {\"data\": [[311,182],[282,670],[941,661],[835,170]]}]}",
      "image_compression_ratio": 80
    }
  }
}

```

- This request is used to create a trash can anomaly detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

```

POST /v2/{project_id}/services/c-trash-abnormal-detect-edge/tasks

{
  "name": "trashabnormal-task",
  "description": "trashabnormal task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },

```

```

"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "alert_time_threshold" : 30,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\polygons\":[{\data\":[43,266],[42,645],[472,644],[416,212]],[{\data\":[311,182],[282,670],[941,661],[835,170]]}}",
    "image_compression_ratio" : 80
  }
}
}

```

- This request is used to create a trash can anomaly detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-trash-abnormal-detect-edge/tasks

```

{
  "name" : "trashabnormal-task",
  "description" : "trashabnormal task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "url" : "https://restfultest",
      "certificate_check" : false,
      "node_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response" : "http://testpath"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://127.0.0.1:8080/webhook",
      "headers" : {
        "x-auth-token" : "tokentest"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alert_time_threshold" : 30,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\polygons\":[{\data\":[43,266],[42,645],[472,644],[416,212]],[{\data\":[311,182],[282,670],[941,661],[835,170]]}}",
      "image_compression_ratio" : 80
    }
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.18 Creating a City Garbage Can Overflow Detection (Edge) Task

Function

This API is used to create an overflowing garbage can detection in cities (edge) task.

URI

POST /v2/{project_id}/services/c-urban-trash-overflow-edge/tasks

Table 4-292 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-293 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-294 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	UrbanTrashOverflowServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-295 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-296 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-297 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-298 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-299 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-300 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-301 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-302 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-303 UrbanTrashOverflowServiceConfig

Parameter	Mandatory	Type	Description
common	No	UrbanTrashOverflowCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-304 UrbanTrashOverflowCommon

Parameter	Mandatory	Type	Description
alert_time_threshold	No	Integer	Corresponds to Alert Time Threshold on the console. An alarm is reported if a trash can status is abnormal for the duration specified by this parameter. Value range: [30, 3600] (in seconds) Default value: 30 Minimum: 30 Maximum: 3600 Default: 30

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies the area for garbage bin detection. If an abnormal status of a garbage bin in this area is detected, an alarm is triggered.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[43,266], [42,645], [472,644], [416,212]]}, {"data": [[311,182], [282,670], [941,661], [835,170]]}]} If this parameter is left blank, the entire area is the detection area by default.

Response Parameters

Status code: 200

Table 4-305 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-306 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-307 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-308 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a city garbage can overflow detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-trash-overflow-edge/tasks

```
{
  "name": "urban-trash-task",
  "description": "urban-trash task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
```

```

    "x-auth-token" : "tokentest"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "alert_time_threshold" : 30,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\":{\"data\":[[43,266],[42,645],[472,644],[416,212]]},{\"data\":[311,182],[282,670],[941,661],[835,170]]}}",
    "image_compression_ratio" : 80
  }
}
}

```

- This request is used to create a city garbage can overflow detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-trash-overflow-edge/tasks

```

{
  "name" : "urban-trash-task",
  "description" : "urban-trash task test",
  "input" : {
    "type" : "vcn",
    "data" : [ {
      "device_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type" : 2
    } ],
    "vcn" : {
      "ip" : "127.0.0.1",
      "port" : 8080,
      "username" : "vcntest",
      "password" : "123456abcd"
    }
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alert_time_threshold" : 30,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\":{\"data\":[[43,266],[42,645],[472,644],[416,212]]},{\"data\":[311,182],[282,670],[941,661],[835,170]]}}",
      "image_compression_ratio" : 80
    }
  }
}

```

- This request is used to create a city garbage can overflow detection (edge) task, with the input type set to **edgecamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-trash-overflow-edge/tasks

```

{
  "name" : "urban-trash-task",
  "description" : "urban-trash task test",
  "input" : {
    "type" : "edgecamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  }
}

```

```

    }
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alert_time_threshold" : 30,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[43,266],[42,645],[472,644],[416,212]]}, {\"data\": [[311,182],[282,670],[941,661],[835,170]]}]}",
      "image_compression_ratio" : 80
    }
  }
}

```

- This request is used to create a city garbage can overflow detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-trash-overflow-edge/tasks

```

{
  "name" : "urban-trash-task",
  "description" : "urban-trash task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "url" : "https://restfultest",
      "certificate_check" : false,
      "node_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response" : "http://testpath"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://127.0.0.1:8080/webhook",
      "headers" : {
        "x-auth-token" : "tokentest"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alert_time_threshold" : 30,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[43,266],[42,645],[472,644],[416,212]]}, {\"data\": [[311,182],[282,670],[941,661],[835,170]]}]}",
      "image_compression_ratio" : 80
    }
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

```
}]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.19 Creating a Peak Crowd Counting (Edge) Task

Function

This API is used to create a peak crowd counting (edge) task.

URI

POST /v2/{project_id}/services/c-highpoint-crowdcount-edge/tasks

Table 4-309 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-310 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-311 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	HighpointCrowdcountServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9.]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-312 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-313 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-314 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-315 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-316 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-317 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-318 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-319 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-320 HighpointCrowdcountServiceConfig

Parameter	Mandatory	Type	Description
common	No	HighpointCrowdcountCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-321 HighpointCrowdcountCommon

Parameter	Mandatory	Type	Description
alarm_threshold	No	String	<p>People count alarm thresholds. Default value: 50. The value must be a positive integer. When the number of people in a video frame exceeds the threshold, an alarm is triggered and an alarm image is output in JSON format.</p> <ul style="list-style-type: none"> • If the value of grid_x_number is greater than 0 and the value of grid_y_number is greater than 0, the grid ROI settings are enabled. If you enter more than one value, only the first value is used as the alarm threshold for all grid areas. For example, if you enter 25 36 23 40, the algorithm automatically selects the first value, that is, 25, as the alarm threshold. If the number of people in any grid exceeds this threshold, an alarm image is output. • If the value of grid_x_number or grid_y_number is 0, the classic ROI settings are enabled. You can enter different alarm thresholds for each ROI and separate them with spaces. If the alarm threshold list entered by the user is greater than the actual number of ROIs, the alarm threshold within the list is used. If the number of alarm thresholds within the list is less than the actual number of ROIs, use the default value for the rest part. For example, if there are three ROIs and three threshold values (25 30 20)

Parameter	Mandatory	Type	Description
			<p>are input, the image is sent as long as one ROI alarm is generated. When there are only two values (25 15) are entered, the threshold of the third ROI will be defaulted to 50. When there are more than three threshold values (such as 25 36 23 40) are entered, the first three values (25 36 23) are automatically selected.</p> <ul style="list-style-type: none"> Note: The value cannot be an empty string. Otherwise, Postman cannot deliver jobs.
sampling_time_interval	No	Integer	<p>Interval at which video sampling is performed. The default value is 5s. The value range is [5, 3600], seconds.</p> <p>Minimum: 5 Maximum: 3600 Default: 5</p>
alert_mode	No	String	<p>Alarming mode. Default value: single. There are two alarm modes:</p> <ul style="list-style-type: none"> single: event alarming. An alarm is reported only when a new alarm event is generated and the number of people reaches the alarm threshold. periodic: periodic alarming. An alarm is reported each time a video sampling interval expires.

Parameter	Mandatory	Type	Description
visualization_output_sw	No	Integer	<p>Whether to send the edited video image with scenario information on it. The default value is 0, and the value range is [0 1]. By default, when the number of people in each ROI exceeds the alarm threshold, only the structured information of the original image is sent. The detected pedestrians are displayed in video image after this function is enabled. The visualized alarm information on images for different scenarios is as follows:</p> <ul style="list-style-type: none"> • 1. If a pedestrian is detected, it is marked with a red box. • 1. Each ROI is marked with a yellow polygon in the image. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[43,266], [42,645], [472,644], [416,212]]}, {"data": [[311,182], [282,670], [941,661], [835,170]]}]} If this parameter is left blank, the entire area is the detection area by default.

Parameter	Mandatory	Type	Description
grid_x_number	No	Integer	<p>Corresponds to the Grid X Number parameter on the console. The default value is 0.</p> <ul style="list-style-type: none"> If the value of grid_y_number is 0, the value of this field is 0, indicating that the classic ROI settings are used, which is subject to target_roi. Values other than 0 indicates the number of grids in the horizontal direction, and each grid corresponds to an independent detection area. For example, if the value is 3, there are three grids in the horizontal direction corresponding to three independent detection areas. Assume that the width of an image is W, the width of grids in a rightmost column are equal to a difference between W and the number $(W//3)*2$ is rounded down to, and the width of grids in other columns are respectively the number $(W//3)$ is rounded down to. The width of each grid must be greater than 10 pixels, that is, the value range of the number of grids in a horizontal direction is $[0, \min(\text{the number } (W//10) \text{ is rounded down to, } 500)]$. <p>Default: 0</p>

Parameter	Mandatory	Type	Description
grid_y_number	No	Integer	<p>Corresponds to the Grid Y Number parameter on the console. The default value is 0.</p> <ul style="list-style-type: none"> If the value of grid_x_number is 0, the value of this field is 0, indicating that the classic ROI settings are used, which is subject to target_roi. Values other than 0 indicates the number of grids in the vertical direction, and each grid corresponds to an independent detection area. For example, if the value is 5, there are five grids in the vertical direction corresponding to five independent detection areas. Assume that the height of an image is H, and the height of a grid in a bottom row is equal to a difference between H and the number $(H/5)*4$ is rounded down to. The height of each grid must be greater than 10 pixels, that is, the value range of the number of grids in a vertical direction is $[0, \min(\text{the number } (H/10) \text{ is rounded down to, } 500)]$. <p>Default: 0</p>

Response Parameters

Status code: 200

Table 4-322 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-323 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-324 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-325 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause

Parameter	Type	Description
advice	String	Suggestion

Example Requests

- This request is used to create a peak crowd counting (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-highpoint-crowdcount-edge/tasks

```
{
  "name": "highpoint-crowdcount-task",
  "description": "highpoint-crowdcount task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alarm_threshold": "5",
      "sampling_time_interval": 8,
      "visualization_output_sw": 1,
      "image_compression_ratio": 80,
      "alert_mode": "single",
      "target_roi": "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
    }
  }
}
```

- This request is used to create a peak crowd counting (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-highpoint-crowdcount-edge/tasks

```
{
  "name": "highpoint-crowdcount-task",
  "description": "highpoint-crowdcount task test",
  "input": {
    "type": "vcn",
    "data": [ {
      "device_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type": 2
    } ],
    "vcn": {
      "ip": "127.0.0.1",
      "port": 8080,
      "username": "vcntest",
      "password": "123456abcd"
    }
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  }
}
```

```

},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "alarm_threshold" : "5",
    "sampling_time_interval" : 8,
    "visualization_output_sw" : 1,
    "image_compression_ratio" : 80,
    "alert_mode" : "single",
    "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 100, 100 ], [ 1800, 100 ], [ 1800, 1000 ], [ 100, 1000 ] ] } ] }"
  }
}
}

```

- This request is used to create a peak crowd counting (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-highpoint-crowdcount-edge/tasks

```

{
  "name" : "highpoint-crowdcount-task",
  "description" : "highpoint-crowdcount task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alarm_threshold" : "5",
      "sampling_time_interval" : 8,
      "visualization_output_sw" : 1,
      "image_compression_ratio" : 80,
      "alert_mode" : "single",
      "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 100, 100 ], [ 1800, 100 ], [ 1800, 1000 ], [ 100, 1000 ] ] } ] }"
    }
  }
}

```

- This request is used to create a peak crowd counting (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-highpoint-crowdcount-edge/tasks

```

{
  "name" : "highpoint-crowdcount-task",
  "description" : "highpoint-crowdcount task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "url" : "https://restfultest",
      "certificate_check" : false,
      "node_id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response" : "http://testpath"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://127.0.0.1:8080/webhook",
      "headers" : {
        "x-auth-token" : "tokentest"
      }
    }
  }
}

```



```

    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alarm_threshold": "5",
      "sampling_time_interval": 8,
      "visualization_output_sw": 1,
      "image_compression_ratio": 80,
      "alert_mode": "single",
      "target_roi": "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
    }
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.20 Creating a Target Attribute Recognition (Edge) Task

Function

This API is used to create a target attribute recognition (edge) task.

URI

POST /v2/{project_id}/services/c-object-attrib-recog-edge/tasks

Table 4-326 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-327 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-328 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	ObjectAttrRecogServiceConfig object	Job configuration parameters.

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-329 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-330 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-331 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-332 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-333 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-334 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-335 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-336 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-337 ObjectAttriRecogServiceConfig

Parameter	Mandatory	Type	Description
common	No	ObjectAttriRecogCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-338 ObjectAttriRecogCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
pedes_attri_switch	No	String	<p>Corresponds to the Pedes Attri Switch parameter on the console. Pedestrian attributes you want the algorithm to output. The current algorithm supports the recognition of the following pedestrian attributes:</p> <ul style="list-style-type: none"> • gender: [male, female] • age: [juvenile, youth, middle age, old age] • hair - hairstyle: [short, long, bald] • glasses - Eyes: [with glasses, without glasses] • hat: [hat, helmet, neither] • mask-mask: [with a mask, without a mask] • backbag-backpack: [with a backpack, without a backpack] • handbag-handbag: [with a handbag, without a handbag] • single_shoulder_bag-one shoulder bag: [with a one shoulder bag, without a one shoulder bag] • upper_color-tops color: [black, white (including gray and silver), blue, green, yellow (including orange and gold), red (including pink and purple)] • upper_style-tops style: [short sleeves, long sleeves] • upper_texture-tops texture: [solid color, stripes, grids, patterns] • lower_color-bottoms color: [black, white (including gray and silver), blue, green, yellow (including orange and gold), red (including pink and purple)]

Parameter	Mandatory	Type	Description
			<ul style="list-style-type: none"> • lower_style-bottoms style: [shorts, trousers, short skirts, long skirts] • orientation-orientation: [front, back, left, right] • For example, if the value of pedes_attri_switch is gender,age, only the gender and age attributes of pedestrians are displayed in the output. • If this parameter is left blank, all attributes are displayed by default. If there is a space on both sides of the comma (,), the space will be ignored. If all attributes are incorrectly set, all attributes are displayed. If some attributes are correctly set, only the correct attributes are displayed. • Vehicle types can be identified, including bicycles, battery trucks, cars, dump trucks, trailers, cement mixers, buses, and others. The display of the vehicle type is not affected by this parameter.
alert_attri	No	AlertAttri object	<p>Corresponds to the AlertAttri parameter on the console.</p> <ul style="list-style-type: none"> • This parameter specifies alarm types and attributes. The algorithm generates alarms only of these types and attributes. • If this parameter is left blank, the algorithm reports alarms for all monitored objects by default. • Each monitored object information contains the result of the attributes specified by pedes_attri_switch.

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Table 4-339 AlertAttri

Parameter	Mandatory	Type	Description
type	No	String	<p>Corresponds to the Type parameter on the console. Type of an alarm. The options are as follows: pedestrian, bicycle, electromobile, car, slag_car, trailer, concrete_mixer, bus, other_vehicle.</p> <ul style="list-style-type: none"> • The algorithm generates alarms of the specified type. • If there is a space on both sides of the comma (,), the space will be ignored. If all types are incorrectly set, all types of alarms are reported. If some types are correctly set, only alarms of the correct types are reported. • The default value is default, indicating that alarms of all types are reported.

Parameter	Mandatory	Type	Description
attribute	No	String	<ul style="list-style-type: none"> • Corresponds to Attribute on the console. • The algorithm checks the specified attributes of the monitored object. An alarm is reported only when the value of the attribute is within the specified range. • If this parameter is left blank, the algorithm does not check the attributes and directly reports alarms based on the alarm types. • Separate multiple attributes by commas (.). For example, if you want to generate alarms only for juveniles and youth, set this parameter to child,young. • For details about the value range, see the "attribute parameter description" in Detection Result. • If there is a space on both sides of the comma (,), the space will be ignored. If all attributes are incorrectly set, alarms are reported based on the alarm types. If some attributes are correctly set, only the alarms of correct attributes are reported.

Response Parameters

Status code: 200

Table 4-340 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-341 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-342 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-343 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This API is used to create a target attribute recognition (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-object-attrib-recog-edge/tasks
```

```
{
  "name": "attri-task",
```

```
"description": "attri task test",
"input": {
  "type": "video_source",
  "data": [ {
    "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
  } ]
},
"output": {
  "webhook": {
    "url": "https://127.0.0.1:8080/webhook",
    "headers": {
      "x-auth-token": "tokentest"
    }
  }
},
"service_version": "3.0",
"resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config": {
  "common": {
    "image_compression_ratio": 90,
    "render_roi_sw": 1,
    "render_result_sw": 1,
    "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
  }
}
}
```

- This API is used to create a target attribute recognition (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-object-attri-recog-edge/tasks

```
{
  "name": "attri-task",
  "description": "attri task test",
  "input": {
    "type": "vcn",
    "data": [ {
      "device_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "stream_type": 2
    } ],
    "vcn": {
      "ip": "127.0.0.1",
      "port": 8080,
      "username": "vcntest",
      "password": "123456abcd"
    }
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
    }
  }
}
```

- This API is used to create a target attribute recognition (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-object-attri-recog-edge/tasks

{
  "name": "attri-task",
  "description": "attri task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\\\"}]}"
    }
  }
}
```

- This API is used to create a target attribute recognition (edge) task, with the input type set to **restful** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-object-attri-recog-edge/tasks

{
  "name": "attri-task",
  "description": "attri task test",
  "input": {
    "type": "restful",
    "data": [ {
      "url": "https://restfultest",
      "certificate_check": false,
      "node_id": "aec5857c-222f-4aa9-be39-23654e118886",
      "rtsp_path_in_response": "http://testpath"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://127.0.0.1:8080/webhook",
      "headers": {
        "x-auth-token": "tokentest"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\\\"}]}"
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.21 Creating an E-bike Rider Helmet Detection (Edge) Task

Function

This API is used to create an e-bike rider helmet detection (edge) task.

URI

POST /v2/{project_id}/services/c-helmet-elec-recog-edge/tasks

Table 4-344 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-345 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-346 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	HelmetElecRecogServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-347 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-348 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-349 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-350 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-351 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-352 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-353 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-354 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-355 HelmetElecRecogServiceConfig

Parameter	Mandatory	Type	Description
common	No	HelmetElecRecogCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-356 HelmetElecRecogCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> • The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. • Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} • If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-357 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-358 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-359 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-360 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information

Parameter	Type	Description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an e-bike rider helmet detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-helmet-elec-recog-edge/tasks

```
{
  "name": "helmet-task",
  "description": "helmet task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}
```

- This request is used to create an e-bike rider helmet detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-helmet-elec-recog-edge/tasks

```
{
  "name": "helmet-task",
  "description": "helmet task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  }
}
```

```

    }
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}

```

- This request is used to create an e-bike rider helmet detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-helmet-elec-recog-edge/tasks

```

{
  "name": "helmet-task",
  "description": "helmet task test",
  "input": {
    "type": "restful",
    "data": [ {
      "index": 0,
      "url": "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check": false,
      "rtsp_path_in_response": "data/url"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}

```

- This request is used to create an e-bike rider helmet detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-helmet-elec-recog-edge/tasks

```

{
  "name": "helmet-task",
  "description": "helmet task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },

```

```

"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.22 Creating an Umbrella Violation Detection (Edge) Task

Function

This API is used to create an umbrella violation detection (edge) task.

URI

POST /v2/{project_id}/services/c-urban-umbrella-edge/tasks

Table 4-361 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-362 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-363 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	UmbrellaServiceConfig object	Job configuration parameters.

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-364 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-365 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> ● video_source ● obs (not recommended and will be discontinued) ● url (not recommended and will be discontinued) ● edgcamera (not recommended and will be discontinued) ● restful (not recommended and will be discontinued) ● vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-366 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-367 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-368 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-369 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-370 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-371 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-372 UmbrellaServiceConfig

Parameter	Mandatory	Type	Description
common	No	UmbrellaCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-373 UmbrellaCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-374 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-375 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-376 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-377 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an umbrella violation detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/c-urban-umbrella-edge/tasks
```

```
{
  "name": "umbrella-task",
  "description": "umbrella task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  }
}
```



```

    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
    \"]}]}"
  }
}

```

- This request is used to create an umbrella violation detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-umbrella-edge/tasks

```

{
  "name": "umbrella-task",
  "description": "umbrella task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
    \"]}]}"
  }
}

```

- This request is used to create an umbrella violation detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-umbrella-edge/tasks

```

{
  "name": "umbrella-task",
  "description": "umbrella task test",
  "input": {
    "type": "restful",
    "data": [ {
      "index": 0,
      "url": "http://xxx.xxx.xxx.xxx/test/data",
      "certificate_check": false,
      "rtsp_path_in_response": "data/url"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  }
}

```

```

    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
    \"]}]}"
  }
}

```

- This request is used to create an umbrella violation detection (edge) task, with the input type set to **vcn** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-umbrella-edge/tasks

```

{
  "name": "umbrella-task",
  "description": "umbrella task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
    \"]}]}"
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.23 Creating an Advertisement Violation Detection (Edge) Task

Function

This API is used to create an advertisement violation detection (edge) task.

URI

POST /v2/{project_id}/services/c-urban-sign-detect-edge/tasks

Table 4-378 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-379 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-380 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	SignDetectServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-381 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-382 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-383 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-384 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-385 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-386 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-387 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-388 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-389 SignDetectServiceConfig

Parameter	Mandatory	Type	Description
common	No	SignDetectCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-390 SignDetectCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-391 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-392 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-393 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-394 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an advertisement violation detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-sign-detect-edge/tasks
```

```
{
  "name": "sign-detect-task",
  "description": "sign task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
  }
}
```

- This request is used to create an advertisement violation detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-sign-detect-edge/tasks

```
{
  "name" : "sign-detect-task",
  "description" : "sign task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "index" : 0,
      "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check" : false,
      "rtsps_path_in_response" : "data/url"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://apigw.huawei.com/xxx/xxx/callback",
      "headers" : {
        "content-type" : "application/json"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
    }
  }
}
```

- This request is used to create an advertisement violation detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-sign-detect-edge/tasks

```
{
  "name" : "sign-detect-task",
  "description" : "sign task test",
  "input" : {
    "type" : "vcn",
    "vcn" : {
      "ip" : "xxx.xxx.xxx.xxx",
      "password" : "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port" : "xxx",
      "username" : "testname"
    },
    "data" : [ {
      "index" : 0,
      "stream_type" : 1,
      "device_id" : "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  }
}
```



```

    }
  ],
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
    \"]}]}"
  }
}

```

- This request is used to create an advertisement violation detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-sign-detect-edge/tasks

```

{
  "name": "sign-detect-task",
  "description": "sign task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
    \"]}]}"
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.24 Creating a Messy Piles Detection (Edge) Task

Function

This API is used to create a messy piles detection (edge) task.

URI

POST /v2/{project_id}/services/c-urban-stacking-edge/tasks

Table 4-395 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-396 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-397 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	StackingServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-398 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-399 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-400 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-401 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-402 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-403 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-404 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-405 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-406 StackingServiceConfig

Parameter	Mandatory	Type	Description
common	No	StackingCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-407 StackingCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon"}]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-408 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-409 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-410 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-411 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a messy piles detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-stacking-edge/tasks
```

```
{
  "name": "stacking-detect-task",
  "description": "stacking task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\}}}"
  }
}
```

- This request is used to create a messy piles detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-stacking-edge/tasks

```
{
  "name": "stacking-detect-task",
  "description": "stacking task test",
  "input": {
    "type": "restful",
    "data": [ {
      "index": 0,
      "url": "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check": false,
      "rtsp_path_in_response": "data/url"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\}}}"
    }
  }
}
```

- This request is used to create a messy piles detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-stacking-edge/tasks

```
{
  "name": "stacking-detect-task",
  "description": "stacking task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
  }
}
```

- This request is used to create a messy piles detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-stacking-edge/tasks

```
{
  "name": "stacking-detect-task",
  "description": "stacking task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```


Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.25 Creating a Clothes Airing Violation Detection (Edge) Task

Function

This API is used to create a clothes airing violation detection (edge) task.

URI

POST /v2/{project_id}/services/c-urban-drying-edge/tasks

Table 4-412 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-413 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-414 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	DryingServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-415 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-416 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-417 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-418 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-419 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-420 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-421 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-422 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-423 DryingServiceConfig

Parameter	Mandatory	Type	Description
common	No	DryingCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-424 DryingCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon"}]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-425 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-426 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-427 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-428 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a clothes airing violation detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-drying-edge/tasks
```

```
{
  "name": "drying-detect-task",
  "description": "drying task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
  }
}
```

- This request is used to create a clothes airing violation detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-drying-edge/tasks

```
{
  "name" : "drying-detect-task",
  "description" : "drying task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "index" : 0,
      "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check" : false,
      "rtsp_path_in_response" : "data/url"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://apigw.huawei.com/xxx/xxx/callback",
      "headers" : {
        "content-type" : "application/json"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
    }
  }
}
```

- This request is used to create a clothes airing violation detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-drying-edge/tasks

```
{
  "name" : "drying-detect-task",
  "description" : "drying task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
  }
}
```

- This request is used to create a clothes airing violation detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-drying-edge/tasks

```
{
  "name": "drying-detect-task",
  "description": "drying task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.26 Creating a Littering Construction Waste Detection (Edge) Task

Function

This API is used to create a littering construction waste detection (edge) task.

URI

POST /v2/{project_id}/services/c-urban-dregs-edge/tasks

Table 4-429 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-430 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-431 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	DregsService Config object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9.]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-432 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-433 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-434 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-435 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-436 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-437 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-438 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-439 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-440 DregsServiceConfig

Parameter	Mandatory	Type	Description
common	No	DregsCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-441 DregsCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-442 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-443 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-444 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-445 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a littering construction waste detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-dregs-edge/tasks
{
  "name": "dregs-detect-task",
  "description": "dregs task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\}}}"
  }
}
```

- This request is used to create a littering construction waste detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-dregs-edge/tasks

```
{
  "name": "dregs-detect-task",
  "description": "dregs task test",
  "input": {
    "type": "restful",
    "data": [ {
      "index": 0,
      "url": "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check": false,
      "rtsp_path_in_response": "data/url"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\}}}"
    }
  }
}
```

- This request is used to create a littering construction waste detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-dregs-edge/tasks

```
{
  "name": "dregs-detect-task",
  "description": "dregs task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
  }
}
```

- This request is used to create a littering construction waste detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-dregs-edge/tasks

```
{
  "name": "dregs-detect-task",
  "description": "dregs task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.27 Creating a Missing Manhole Cover Detection (Edge) Task

Function

This API is used to create a missing manhole cover detection (edge) task.

URI

POST /v2/{project_id}/services/c-urban-manholecover-miss-edge/tasks

Table 4-446 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-447 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-448 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	ManholecoverMissServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-449 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-450 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-451 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-452 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-453 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-454 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-455 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-456 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-457 ManholecoverMissServiceConfig

Parameter	Mandatory	Type	Description
common	No	ManholecoverMissCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-458 ManholecoverMissCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: Do not draw a border. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be displayed in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-459 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-460 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-461 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-462 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a manhole cover detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-manholecover-miss-edge/tasks
```

```
{
  "name": "manholecovermiss-detect-task",
  "description": "manholecovermiss task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
  }
}
```

- This request is used to create a manhole cover detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-manholecover-miss-edge/tasks

```
{
  "name" : "manholecovermiss-detect-task",
  "description" : "manholecovermiss task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "index" : 0,
      "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check" : false,
      "rtsps_path_in_response" : "data/url"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://apigw.huawei.com/xxx/xxx/callback",
      "headers" : {
        "content-type" : "application/json"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
    }
  }
}
```

- This request is used to create a manhole cover detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-manholecover-miss-edge/tasks

```
{
  "name" : "manholecovermiss-detect-task",
  "description" : "manholecovermiss task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
  }
}
```

- This request is used to create a manhole cover detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-manholecover-miss-edge/tasks

```
{
  "name": "manholecovermiss-detect-task",
  "description": "manholecovermiss task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.28 Creating a Dynamic Manhole Cover Detection (Edge) Task

Function

This API is used to create a dynamic manhole cover detection (edge) task.

URI

POST /v2/{project_id}/services/c-mobile-manholecover-edge/tasks

Table 4-463 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-464 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-465 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	MobileManholecoverMissServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9.]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-466 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-467 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-468 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-469 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-470 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-471 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-472 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-473 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-474 MobileManholecoverMissServiceConfig

Parameter	Mandatory	Type	Description
common	No	MobileManholecoverMissCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-475 MobileManholecoverMissCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: Do not draw a border. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be displayed in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-476 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-477 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-478 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-479 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a dynamic manhole cover detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-mobile-manholecover-edge/tasks
```

```
{
  "name": "mobile-manholecovermiss-detect-task",
  "description": "manholecovermiss task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsv2+wB1joepzynLWV3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    }
  },
  "data": [ {
    "index": 0,
    "stream_type": 1,

```

```

    "device_id" : "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\"]]}"
  }
}
}
}

```

- This request is used to create a dynamic manhole cover detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-mobile-manholecover-edge/tasks

```

{
  "name" : "mobile-manholecovermiss-detect-task",
  "description" : "manholecovermiss task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "index" : 0,
      "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check" : false,
      "rtsp_path_in_response" : "data/url"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://apigw.huawei.com/xxx/xxx/callback",
      "headers" : {
        "content-type" : "application/json"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\"]]}"
    }
  }
}
}
}

```

- This request is used to create a dynamic manhole cover detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-mobile-manholecover-edge/tasks

```

{
  "name" : "mobile-manholecovermiss-detect-task",
  "description" : "manholecovermiss task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",

```

```

    "index" : 0
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\"]]}"
  }
}
}
}

```

- This request is used to create a dynamic manhole cover detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-mobile-manholecover-edge/tasks

```

{
  "name" : "mobile-manholecovermiss-detect-task",
  "description" : "manholecovermiss task test",
  "input" : {
    "type" : "video_source",
    "data" : [ {
      "video_source_id" : "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\"]]}"
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.29 Creating an Urban Trash Detection (Edge) Task

Function

This API is used to create an urban trash detection (edge) task.

URI

POST /v2/{project_id}/services/c-urban-trash-detect-edge/tasks

Table 4-480 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-481 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-482 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	TrashDetectServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-483 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-484 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-485 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-486 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-487 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-488 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-489 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-490 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-491 TrashDetectServiceConfig

Parameter	Mandatory	Type	Description
common	No	TrashDetectCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-492 TrashDetectCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
trash_detect_sw	No	Integer	<p>Corresponds to the Trash Detection Switch parameter on the console.</p> <ul style="list-style-type: none"> • 1: Trash will be detected. • 2: Trash and the person who threw trash will be detected. • The default value is 1. <p>Minimum: 1 Maximum: 2 Default: 1</p>
person_constraint_sw	No	Integer	<p>Corresponds to the Person Constraint Switch parameter on the console. When this switch is on, alarms indicating that there are persons near the trash will be filtered out.</p> <ul style="list-style-type: none"> • 0: The switch is off. • 1: The switch is on. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
min_trash_size	No	Integer	<p>Corresponds to the Minimum Trash Size parameter on the console. Trash definition varies depending on the application scenario. If the trash size is smaller than the value of this parameter, no alarm is generated. The value ranges from 1 to 500. The unit is pixel. The default value is 1.</p> <p>Minimum: 1 Maximum: 500 Default: 1</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be displayed in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-493 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-494 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-495 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-496 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an urban trash detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-trash-detect-edge/tasks
```

```
{
  "name": "trash-detect-task",
  "description": "trash task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "trash_detect_sw" : 1,
    "person_constraint_sw" : 0,
    "min_trash_size" : 1,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
  }
}
```

- This request is used to create an urban trash detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-trash-detect-edge/tasks

```
{
  "name": "trash-detect-task",
  "description": "trash task test",
  "input": {
    "type": "restful",
    "data": [ {
      "index": 0,
      "url": "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check": false,
      "rtsp_path_in_response": "data/url"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "trash_detect_sw": 1,
      "person_constraint_sw": 0,
      "min_trash_size": 1,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
    }
  }
}
```

- This request is used to create an urban trash detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-trash-detect-edge/tasks

```
{
  "name": "trash-detect-task",
  "description": "trash task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "url": "https://dis.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "trash_detect_sw": 1,
      "person_constraint_sw": 0,
      "min_trash_size": 1,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\\"}]}"
    }
  }
}
```

```

"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "trash_detect_sw" : 1,
    "person_constraint_sw" : 0,
    "min_trash_size" : 1,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\"]]}"
  }
}
}

```

- This request is used to create an urban trash detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-trash-detect-edge/tasks

```

{
  "name" : "trash-detect-task",
  "description" : "trash task test",
  "input" : {
    "type" : "vcn",
    "vcn" : {
      "ip" : "xxx.xxx.xxx.xxx",
      "password" : "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port" : "xxx",
      "username" : "testname"
    },
    "data" : [ {
      "index" : 0,
      "stream_type" : 1,
      "device_id" : "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "trash_detect_sw" : 1,
      "person_constraint_sw" : 0,
      "min_trash_size" : 1,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\"]]}"
    }
  }
}

```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.30 Creating an Urban Mobile Trash Detection (Edge) Task

Function

This API is used to create an urban mobile trash detection (edge) task.

URI

POST /v2/{project_id}/services/c-mobile-trash-detect-edge/tasks

Table 4-497 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-498 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-499 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	MobileTrashServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9.]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-500 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-501 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-502 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-503 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-504 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-505 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-506 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-507 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-508 MobileTrashServiceConfig

Parameter	Mandatory	Type	Description
common	No	MobileTrashCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-509 MobileTrashCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
min_trash_size	No	Integer	Corresponds to the Minimum Trash Size parameter on the console. Trash definition varies depending on the application scenario. If the trash size is smaller than the value of this parameter, no alarm is generated. The value ranges from 20 to 500. The unit is pixel. The default value is 20 . Minimum: 20 Maximum: 500 Default: 20
render_result_sw	No	Integer	Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows: <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. Minimum: 0 Maximum: 1 Default: 0

Response Parameters

Status code: 200

Table 4-510 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-511 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-512 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-513 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an urban mobile trash detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-mobile-trash-detect-edge/tasks
```

```
{
  "name": "mobile-trash-task",
```



```

"description": "mobile-trash task test",
"input": {
  "type": "video_source",
  "data": [ {
    "video_source_id": "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxxx"
  } ]
},
"output": {
  "dis": {
    "stream_name": "dis-test"
  }
},
"service_version": "3.0",
"resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config": {
  "common": {
    "image_compression_ratio": 90,
    "min_trash_size": 1,
    "render_result_sw": 1
  }
}
}

```

- This request is used to create an urban mobile trash detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-mobile-trash-detect-edge/tasks

```

{
  "name": "mobile-trash-task",
  "description": "mobile-trash task test",
  "input": {
    "type": "restful",
    "data": [ {
      "index": 0,
      "url": "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check": false,
      "rtsp_path_in_response": "data/url"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "min_trash_size": 1,
      "render_result_sw": 1
    }
  }
}

```

- This request is used to create an urban mobile trash detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-mobile-trash-detect-edge/tasks

```

{
  "name": "mobile-trash-task",
  "description": "mobile-trash task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",

```

```

    "index" : 0
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "min_trash_size" : 1,
    "render_result_sw" : 1
  }
}
}
}

```

- This request is used to create an urban mobile trash detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-mobile-trash-detect-edge/tasks

```

{
  "name" : "mobile-trash-task",
  "description" : "mobile-trash task test",
  "input" : {
    "type" : "vcn",
    "vcn" : {
      "ip" : "xxx.xxx.xxx.xxx",
      "password" : "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811lCUsv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port" : "xxx",
      "username" : "testname"
    },
    "data" : [ {
      "index" : 0,
      "stream_type" : 1,
      "device_id" : "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "min_trash_size" : 1,
      "render_result_sw" : 1
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.31 Creating an Urban Roadside Stall Detection (Edge) Task

Function

This API is used to create an urban roadside stall detection (edge) task.

URI

POST /v2/{project_id}/services/c-urban-roadside-stall-edge/tasks

Table 4-514 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-515 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-516 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	RoadsideServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-517 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-518 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-519 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-520 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression <code>^.{1,100}\$</code> .
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression <code>^.{1,1000}\$</code> .

Table 4-521 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-522 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-523 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-524 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-525 RoadsideServiceConfig

Parameter	Mandatory	Type	Description
common	No	RoadsideCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-526 RoadsideCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
roadside_stall_detect_sw	No	Integer	<p>Corresponds to the Roadside Stall Detection Switch parameter on the console.</p> <ul style="list-style-type: none"> • 0: Roadside stall will not be detected. • 1: Roadside stall will be detected. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
outstore_stall_detect_sw	No	Integer	<p>Corresponds to the Outstore Stall Detection Switch parameter on the console.</p> <ul style="list-style-type: none"> • 0: Outstore stall will not be detected. • 1: Outstore stall will be detected. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
event_disappear_alert_sw	No	Integer	<p>Corresponds to the Event Disappear Alert Switch parameter on the console. Options:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon"}]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.
repeat_alert_sw	No	Integer	<p>Corresponds to the Repeated Alert Switch parameter on the console. This parameter specifies whether to generate repeated alarms for the same object. The options are as follows:</p> <ul style="list-style-type: none"> 0: No repeated alarms are generated for the same object. 1: Repeated alarms are generated for the same object. The default value is 0. When repeated alarms are enabled, the repeat_alert_interval parameter is valid only when the detection_id is the same for all the alarms generated for the same object. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
repeat_alert_interval	No	Integer	Corresponds to the Repeated Alert Interval parameter on the console. This parameter is valid only when repeat_alert_sw is set to 1 . This parameter specifies the interval between repeated alarms, in seconds. The value ranges from 30 to 86400. The default value is 30 , indicating that an alarm is generated every 30 seconds, and the detection_id of the alarms generated for the same object is the same. Minimum: 30 Maximum: 86400 Default: 30

Response Parameters

Status code: 200

Table 4-527 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-528 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-529 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-530 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an urban roadside stall detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-roadside-stall-edge/tasks

```
{
  "name": "roadside-task",
  "description": "roadside task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "event_disappear_alert_sw": 0,

```

```

        "image_compression_ratio" : 90,
        "roadside_stall_detect_sw" : 1,
        "outstore_stall_detect_sw" : 0,
        "render_roi_sw" : 1,
        "render_result_sw" : 1,
        "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [84,389],[1840,349],[1824,526],[78,526] ], \"name\" : \"a
    \"} ] }"
    }
}

```

- This request is used to create an urban roadside stall detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-roadside-stall-edge/tasks

```

{
  "name" : "roadside-task",
  "description" : "roadside task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "index" : 0,
      "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check" : false,
      "rtsp_path_in_response" : "data/url"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://apigw.huawei.com/xxx/xxx/callback",
      "headers" : {
        "content-type" : "application/json"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "event_disappear_alert_sw" : 0,
      "image_compression_ratio" : 90,
      "roadside_stall_detect_sw" : 1,
      "outstore_stall_detect_sw" : 0,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [84,389],[1840,349],[1824,526],[78,526] ], \"name\" : \"a
    \"} ] }"
    }
  }
}

```

- This request is used to create an urban roadside stall detection (edge) task, with the input type set to **edgecamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-roadside-stall-edge/tasks

```

{
  "name" : "roadside-task",
  "description" : "roadside task test",
  "input" : {
    "type" : "edgecamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  }
}

```

```

},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "event_disappear_alert_sw" : 0,
    "image_compression_ratio" : 90,
    "roadside_stall_detect_sw" : 1,
    "outstore_stall_detect_sw" : 0,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\":[{\\"data\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\":"a
\"]]}"
  }
}
}

```

- This request is used to create an urban roadside stall detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-roadside-stall-edge/tasks

```

{
  "name" : "roadside-task",
  "description" : "roadside task test",
  "input" : {
    "type" : "vcn",
    "vcn" : {
      "ip" : "xxx.xxx.xxx.xxx",
      "password" : "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port" : "xxx",
      "username" : "testname"
    },
    "data" : [ {
      "index" : 0,
      "stream_type" : 1,
      "device_id" : "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "event_disappear_alert_sw" : 0,
      "image_compression_ratio" : 90,
      "roadside_stall_detect_sw" : 1,
      "outstore_stall_detect_sw" : 0,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\\"polygons\":[{\\"data\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\":"a
\"]]}"
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {

```

```
"id" : "20690c67d71549c39085a3b28c18f24f"
}]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.32 Creating an Exposed Bare Soil Detection (Edge) Task

Function

This API is used to create an exposed bare soil detection (edge) task.

URI

POST /v2/{project_id}/services/c-urban-soil-exposure-edge/tasks

Table 4-531 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-532 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-533 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	SoilExposureServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-534 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-535 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-536 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-537 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-538 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-539 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-540 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-541 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-542 SoilExposureServiceConfig

Parameter	Mandatory	Type	Description
common	No	SoilExposureCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-543 SoilExposureCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-544 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-545 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-546 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-547 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an exposed bare soil detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-soil-exposure-edge/tasks
```

```
{
  "name": "soil-exposure-task",
  "description": "soil-exposure task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```



```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\"]]}"
  }
}
```

- This request is used to create an exposed bare soil detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-urban-soil-exposure-edge/tasks

```
{
  "name" : "soil-exposure-task",
  "description" : "soil-exposure task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "index" : 0,
      "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check" : false,
      "rtsp_path_in_response" : "data/url"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://apigw.huawei.com/xxx/xxx/callback",
      "headers" : {
        "content-type" : "application/json"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\"]]}"
    }
  }
}
```

- This request is used to create an exposed bare soil detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-soil-exposure-edge/tasks

```
{
  "name" : "soil-exposure-task",
  "description" : "soil-exposure task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\\\"}]}"
  }
}
```

- This request is used to create an exposed bare soil detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-soil-exposure-edge/tasks

```
{
  "name": "soil-exposure-task",
  "description": "soil-exposure task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\\\"}]}"
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.33 Creating a Wrong-Way Driving Detection (Edge) Task

Function

This API is used to create a wrong-way driving detection (edge) task.

URI

POST /v2/{project_id}/services/c-retrograde-detection-edge/tasks

Table 4-548 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-549 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-550 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	RetrogradeServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-551 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-552 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-553 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-554 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-555 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-556 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-557 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-558 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-559 RetrogradeServiceConfig

Parameter	Mandatory	Type	Description
common	No	RetrogradeCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-560 RetrogradeCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Quality coefficient of the output image. The value ranges from 20 to 100, and the default value is 100. If the value is 80, the definition of the output image is 80% of that of the original image. A smaller value indicates a more blurred image and a smaller amount of image data to be received.</p> <p>Minimum: 20 Maximum: 100 Default: 100</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
license_plate	No	LicensePlate object	License plate information.

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: <code>{"lines":[{"data": [[1723,561], [466,592]],"properties":{"side1_name":"forward","side2_name":"backward"}}]}</code> (forward indicates the positive direction and backward indicates the negative direction.) If this parameter is not set, the default area is the horizontal area in the middle of the image. Downward the area indicates the positive direction, and upward the area indicates the negative direction. When a vehicle crosses the configured line from the negative direction towards the positive direction, it is considered that the vehicle travels in the positive direction. When the vehicle crosses the configured line from the positive direction towards the negative direction, it is considered that the vehicle travels in the negative direction.

Table 4-561 LicensePlate

Parameter	Mandatory	Type	Description
local_city	No	String	Default city abbreviation. The value ranges from A to Z. The default value is A .

Parameter	Mandatory	Type	Description
local_province	No	String	Default province abbreviation. Range set: (Jing, Jin, Ji, Meng, Jin, Hu, *Wan, Su, Zhe, Lu, Min, Gan, Yue, Gui, Qiong, Yu, E, Xiang, Hei, Ji, Liao, Shan, Gan, Ning, Qing, Xin, Yu, Chuan, Yun, Gui, Zang, Gang, Ao, Tai).

Response Parameters

Status code: 200

Table 4-562 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-563 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-564 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-565 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a wrong-way driving detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-retrograde-detection-edge/tasks

```
{
  "name": "retrograde-task",
  "description": "retrograde task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\n\"lines\": [{\n\"data\": [[1723,561],[466,592]],\n\"properties\": {\n\"side1_name\": \"forward\n\", \"side2_name\": \"backward\"}}]}",
      "license_plate": {
        "local_city": "B",
        "local_province": "Jin"
      },
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "image_compression_ratio": 100
    }
  }
}
```

- This request is used to create a wrong-way driving detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-retrograde-detection-edge/tasks

```
{
  "name": "retrograde-task",
```



```

"description" : "retrograde task test",
"input" : {
  "type" : "restful",
  "data" : [ {
    "index" : 0,
    "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
    "certificate_check" : false,
    "rtsp_path_in_response" : "data/url"
  } ]
},
"output" : {
  "webhook" : {
    "url" : "https://apigw.huawei.com/xxx/xxx/callback",
    "headers" : {
      "content-type" : "application/json"
    }
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "target_roi" : "{\"lines\": [{\"data\": [[1723,561],[466,592]], \"properties\": {\"side1_name\": \"forward\", \"side2_name\": \"backward\"}}]\",
    "license_plate" : {
      "local_city" : "B",
      "local_province" : "Jin"
    },
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "image_compression_ratio" : 100
  }
}
}

```

- This request is used to create a wrong-way driving detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-retrograde-detection-edge/tasks

```

{
  "name" : "retrograde-task",
  "description" : "retrograde task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "target_roi" : "{\"lines\": [{\"data\": [[1723,561],[466,592]], \"properties\": {\"side1_name\": \"forward\", \"side2_name\": \"backward\"}}]\",
      "license_plate" : {
        "local_city" : "B",
        "local_province" : "Jin"
      },
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "image_compression_ratio" : 100
    }
  }
}

```

- This request is used to create a wrong-way driving detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-retrograde-detection-edge/tasks

```
{
  "name": "retrograde-task",
  "description": "retrograde task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"lines\":[[{\"data\":[[1723,561],[466,592]],\"properties\":{\"side1_name\": \"forward\", \"side2_name\": \"backward\"}]]}",
      "license_plate": {
        "local_city": "B",
        "local_province": "Jin"
      },
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "image_compression_ratio": 100
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful

Status Code	Description
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.34 Creating a Peak Speeding Detection (Edge) Task

Function

This API is used to create a peak speeding detection (edge) task.

URI

POST /v2/{project_id}/services/c-highpoint-overspeed-edge/tasks

Table 4-566 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-567 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-568 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	HighpointOverspeedServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9.]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-569 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-570 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-571 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-572 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-573 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-574 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-575 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-576 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-577 HighpointOverspeedServiceConfig

Parameter	Mandatory	Type	Description
common	No	HighpointOverspeedCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-578 HighpointOverspeedCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Quality coefficient of the output image. The value ranges from 20 to 100, and the default value is 100. If the value is 80, the definition of the output image is 80% of that of the original image. A smaller value indicates a more blurred image and a smaller amount of image data to be received.</p> <p>Minimum: 20 Maximum: 100 Default: 100</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
camera_calibration	Yes	String	<p>Camera calibration information, including the vanishing point on the x-axis, vanishing point on the y-axis, and scaling coefficient on the x-axis. The x-axis is parallel to the lane, and the y-axis is perpendicular to the lane. The parameter type is string. The format is as follows:</p> <ul style="list-style-type: none"> • [75.318722, 63.472760, 3372.332762, -20.42195, 0.031882] • The square brackets enclose five numbers. The first four numbers are floating point numbers of the double type, and the fifth number is a positive floating point number of the double type. • The first number in the square brackets indicates the x coordinate of the vanishing point on the x-axis; the second number indicates the y coordinate of the vanishing point on the x-axis; the third number indicates the x coordinate of the vanishing point on the y-axis; the fourth number indicates the y coordinate of the vanishing point on the y-axis; the fifth number indicates the scaling coefficient on the x-axis.
speed_threshold	No	Integer	<p>Speed threshold, in km/h. The value ranges from 0 to 150, and the default value is 40.</p> <p>Minimum: 0 Maximum: 150 Default: 40</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi.</p> <ul style="list-style-type: none"> • Example: {"polygons": [{"data": [[0,0], [0,1080], [1920,1080], [1920,0]]}]} • If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-579 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-580 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-581 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information

Parameter	Type	Description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-582 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a peak speeding detection (edge) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-highpoint-overspeed-edge/tasks

```
{
  "name": "highpoint-overspeed-task",
  "description": "highpoint-overspeed task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[268,361],[386,556],[539, 506],[364,332]]}, {\"data\": [[474,689],[758,1070],[1183,1070],[668,627]]}]",
      "camera_calibration": "[75.318722,63.472760,3372.332762,-20.421955,0.031882]",

```



```

    "speed_threshold" : 40,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "image_compression_ratio" : 100
  }
}
}

```

- This request is used to create a peak speeding detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-highpoint-overspeed-edge/tasks

```

{
  "name": "highpoint-overspeed-task",
  "description": "highpoint-overspeed task test",
  "input": {
    "type": "restful",
    "data": [ {
      "index": 0,
      "url": "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check": false,
      "rtsp_path_in_response": "data/url"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[268,361],[386,556],[539, 506],[364,332]]}, {\"data\": [[474,689],[758,1070],[1183,1070],[668,627]]}]",
      "camera_calibration": "[75.318722,63.472760,3372.332762,-20.421955,0.031882]",
      "speed_threshold": 40,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "image_compression_ratio": 100
    }
  }
}
}

```

- This request is used to create a peak speeding detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-highpoint-overspeed-edge/tasks

```

{
  "name": "highpoint-overspeed-task",
  "description": "highpoint-overspeed task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {

```

```

"common" : {
  "target_roi" : "{\"polygons\": [{\"data\": [[268,361],[386,556],[539, 506],[364,332]]}, {\"data\": [[474,689],[758,1070],[1183,1070],[668,627]]}]",
  "camera_calibration" : "[75.318722,63.472760,3372.332762,-20.421955,0.031882]",
  "speed_threshold" : 40,
  "render_result_sw" : 1,
  "render_roi_sw" : 1,
  "image_compression_ratio" : 100
}
}
}

```

- This request is used to create a peak speeding detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/c-highpoint-overspeed-edge/tasks

```

{
  "name": "highpoint-overspeed-task",
  "description": "highpoint-overspeed task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi" : "{\"polygons\": [{\"data\": [[268,361],[386,556],[539, 506],[364,332]]}, {\"data\": [[474,689],[758,1070],[1183,1070],[668,627]]}]",
      "camera_calibration" : "[75.318722,63.472760,3372.332762,-20.421955,0.031882]",
      "speed_threshold" : 40,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "image_compression_ratio" : 100
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.35 Creating a Peak Vehicle Counting (Edge) Task

Function

This API is used to create a peak vehicle counting (edge) task.

URI

POST /v2/{project_id}/services/c-vehicle-statistics-edge/tasks

Table 4-583 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-584 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-585 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	VehicleStatisticsServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-586 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-587 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-588 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-589 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-590 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-591 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-592 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-593 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-594 VehicleStatisticsServiceConfig

Parameter	Mandatory	Type	Description
common	No	VehicleStatisticsCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-595 VehicleStatisticsCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Quality coefficient of the output image. The value ranges from 20 to 100, and the default value is 100 . If the value is 80 , the definition of the output image is 80% of that of the original image. A smaller value indicates a more blurred image and a smaller amount of image data to be received. Minimum: 20 Maximum: 100 Default: 100
count_interval	No	Integer	Output interval in seconds. The value ranges from 1 to 3600. The default value is 10 . Minimum: 1 Maximum: 3600 Default: 10
output_image_sw	No	Integer	Whether to output an image. Value 1 means to output an image, and 0 means the opposite. Other values are invalid. The default value is 1 . Minimum: 0 Maximum: 1 Default: 1

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi.</p> <ul style="list-style-type: none"> • Example: {"polygons": [{"data": [[0,0], [0,1080], [1920,1080], [1920,0]]}]} • If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-596 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-597 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-598 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information

Parameter	Type	Description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-599 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a peak vehicle counting (edge) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-vehicle-statistics-edge/tasks

```
{
  "name": "vehicle-statistics-task",
  "description": "vehicle-statistics task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[487,465],[1850,450],[1905,1013],[515,1050]]}]}",
      "count_interval": 10,
      "output_image_sw": 1,

```

```

    "image_compression_ratio" : 100
  }
}

```

- This request is used to create a peak vehicle counting (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/c-vehicle-statistics-edge/tasks

```

{
  "name": "vehicle-statistics-task",
  "description": "vehicle-statistics task test",
  "input": {
    "type": "restful",
    "data": [ {
      "index": 0,
      "url": "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check": false,
      "rtsp_path_in_response": "data/url"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[487,465],[1850,450],[1905,1013],[515,1050]]}]}",
      "count_interval": 10,
      "output_image_sw": 1,
      "image_compression_ratio": 100
    }
  }
}

```

- This request is used to create a peak vehicle counting (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/c-vehicle-statistics-edge/tasks

```

{
  "name": "vehicle-statistics-task",
  "description": "vehicle-statistics task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[487,465],[1850,450],[1905,1013],[515,1050]]}]}",
      "count_interval": 10,
      "output_image_sw": 1,
      "image_compression_ratio": 100
    }
  }
}

```


- ```

}
}

```
- This request is used to create a peak vehicle counting (edge) task, with the input type set to **vcn** and the output type set to **dis**.
- ```

POST /v2/{project_id}/services/c-vehicle-statistics-edge/tasks

{
  "name": "vehicle-statistics-task",
  "description": "vehicle-statistics task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[487,465],[1850,450],[1905,1013],[515,1050]]}]}",
      "count_interval": 10,
      "output_image_sw": 1,
      "image_compression_ratio": 100
    }
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.36 Creating a Vessel Intrusion Detection (Edge) Task

Function

This API is used to create a vessel intrusion detection (edge) task.

URI

POST /v2/{project_id}/services/ship-intrusion-edge/tasks

Table 4-600 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-601 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-602 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500

Parameter	Mandatory	Type	Description
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	ShipIntrusionServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-603 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-604 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-605 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-606 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-607 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-608 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-609 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-610 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-611 ShipIntrusionServiceConfig

Parameter	Mandatory	Type	Description
common	No	ShipIntrusion Common object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-612 ShipIntrusionCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	Yes	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame. By default, the line is horizontal and drawn at the position where the height is 50% of the image height. If the image width is w and the image height is h, the default position of the line is $[[1/4w, 1/2h], [3/4w, 1/2h]]$.

Response Parameters

Status code: 200

Table 4-613 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-614 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-615 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-616 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a vessel intrusion detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/ship-intrusion-edge/tasks
```

```
{
  "name": "ship-intrusion-task",
  "description": "ship-intrusion task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  }
}
```

```

    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}

```

- This request is used to create a vessel intrusion detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/ship-intrusion-edge/tasks

```

{
  "name": "ship-intrusion-task",
  "description": "ship-intrusion task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}

```

- This request is used to create a vessel intrusion detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/ship-intrusion-edge/tasks

```

{
  "name": "ship-intrusion-task",
  "description": "ship-intrusion task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLWyMvH77AkDBaPS+BKXdFu/1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {

```

```

    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
  }
}
}
}

```

- This request is used to create a vessel intrusion detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/ship-intrusion-edge/tasks

```

{
  "name" : "ship-intrusion-task",
  "description" : "ship-intrusion task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "index" : 0,
      "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check" : false,
      "rtsp_path_in_response" : "data/url"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://apigw.huawei.com/xxx/xxx/callback",
      "headers" : {
        "content-type" : "application/json"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```


Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.37 Creating a Floating Debris Detection (Edge) Task

Function

This API is used to create a floating debris detection (edge) task.

URI

POST /v2/{project_id}/services/floating-edge/tasks

Table 4-617 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-618 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-619 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	FloatingServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-620 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-621 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-622 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-623 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-624 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-625 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-626 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-627 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-628 FloatingServiceConfig

Parameter	Mandatory	Type	Description
common	No	FloatingCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-629 FloatingCommon

Parameter	Mandatory	Type	Description
night_detection_sw	No	Integer	Whether to enable detection at night in the target area. The default value is 0 . The options are as follows: <ul style="list-style-type: none"> • 1: Detection at night is enabled. • 0: Detection at night is disabled. Minimum: 0 Maximum: 1 Default: 0

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-630 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-631 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-632 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information

Parameter	Type	Description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-633 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a floating debris detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

POST /v2/{project_id}/services/floating-edge/tasks

```
{
  "name": "floating-task",
  "description": "floating task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
```

```

    "night_detection_sw" : 1,
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
  }
}

```

- This request is used to create a floating debris detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/floating-edge/tasks

```

{
  "name": "floating-task",
  "description": "floating task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "night_detection_sw": 1,
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}

```

- This request is used to create a floating debris detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/floating-edge/tasks

```

{
  "name": "floating-task",
  "description": "floating task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",

```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "night_detection_sw" : 1,
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
  }
}
```

- This request is used to create a floating debris detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/floating-edge/tasks

```
{
  "name" : "floating-task",
  "description" : "floating task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "index" : 0,
      "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check" : false,
      "rtsp_path_in_response" : "data/url"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://apigw.huawei.com/xxx/xxx/callback",
      "headers" : {
        "content-type" : "application/json"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "night_detection_sw" : 1,
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.38 Creating a Drainage Outlet Monitoring (Edge) Task

Function

This API is used to create a drainage outlet monitoring (edge) task.

URI

POST /v2/{project_id}/services/drainage-recognition-edge/tasks

Table 4-634 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-635 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-636 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	DrainageServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-637 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-638 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-639 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-640 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-641 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-642 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-643 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-644 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-645 DrainageServiceConfig

Parameter	Mandatory	Type	Description
common	No	DrainageCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-646 DrainageCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
alarm_repeat_send_interval	No	Integer	<p>Interval for reporting the drainage port status, in minutes. The value ranges from 1 to 360, and the default value is 5.</p> <p>Minimum: 1 Maximum: 360 Default: 5</p>
target_roi	Yes	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> • The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. • Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} • If this parameter is not specified, the automatic AI positioning for the drainage port is enabled by default. Automatic positioning and calibration of the drainage port ROI area are performed when a task is delivered and at 7:00 a.m. every day.

Response Parameters

Status code: 200

Table 4-647 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-648 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-649 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-650 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details

Parameter	Type	Description
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This API is used to create a drainage outlet monitoring (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/drainage-recognition-edge/tasks
```

```
{
  "name": "drainage-task",
  "description": "drainage task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "render_result_sw": 0,
      "alarm_repeat_send_interval": 5,
      "image_compression_ratio": 90,
      "target_roi": "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}"
    }
  }
}
```

- This API is used to create a drainage outlet monitoring (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

```
POST /v2/{project_id}/services/drainage-recognition-edge/tasks
```

```
{
  "name": "drainage-task",
  "description": "drainage task test",
  "input": {
    "type": "edgcamera",
    "data": [ {
      "id": "aec5857c-222f-4aa9-be39-23654e118886",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  }
}
```

```
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "render_result_sw" : 0,
    "alarm_repeat_send_interval" : 5,
    "image_compression_ratio" : 90,
    "target_roi" : "{\"polygons\" : [{\"data\" : [[0,0],[0,1080],[1920,1080],[1920,0]]}]}"
  }
}
```

- This API is used to create a drainage outlet monitoring (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/drainage-recognition-edge/tasks

```
{
  "name" : "drainage-task",
  "description" : "drainage task test",
  "input" : {
    "type" : "vcn",
    "vcn" : {
      "ip" : "xxx.xxx.xxx.xxx",
      "password" : "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port" : "xxx",
      "username" : "testname"
    },
    "data" : [ {
      "index" : 0,
      "stream_type" : 1,
      "device_id" : "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "render_result_sw" : 0,
      "alarm_repeat_send_interval" : 5,
      "image_compression_ratio" : 90,
      "target_roi" : "{\"polygons\" : [{\"data\" : [[0,0],[0,1080],[1920,1080],[1920,0]]}]}"
    }
  }
}
```

- This API is used to create a drainage outlet monitoring (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/drainage-recognition-edge/tasks

```
{
  "name" : "drainage-task",
  "description" : "drainage task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "index" : 0,
      "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check" : false,
      "rtsp_path_in_response" : "data/url"
    } ]
  },
  "output" : {
    "webhook" : {

```

```

    "url" : "https://apigw.huawei.com/xxx/xxx/callback",
    "headers" : {
      "content-type" : "application/json"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "render_result_sw" : 0,
      "alarm_repeat_send_interval" : 5,
      "image_compression_ratio" : 90,
      "target_roi" : "{\"polygons\":[{\"data\":[[0,0],[0,1080],[1920,1080],[1920,0]]}]}"
    }
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.39 Creating a River Water Level Gauge Reading (Edge) Task

Function

This API is used to create a river water level gauge reading (edge) task.

URI

POST /v2/{project_id}/services/cali-water-ruler-river-edge/tasks

Table 4-651 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-652 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-653 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	WaterRulerServiceConfig object	Job configuration parameters

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-654 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-655 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-656 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-657 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-658 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-659 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-660 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-661 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-662 WaterRulerServiceConfig

Parameter	Mandatory	Type	Description
common	No	WaterRulerCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-663 WaterRulerCommon

Parameter	Mandatory	Type	Description
report_interval	Yes	Number	Report interval, in minutes. The value ranges from 0.1 to 360.0. The default value is 1.0 , indicating that data is reported every minute. Minimum: 0.1 Maximum: 360.0 Default: 1.0

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
calibration_info	Yes	String	<p>Corresponds to the Calibration Information parameter on the console. The value of this parameter is a JSON string. An escape character must be added in an API call. Example:</p> <ul style="list-style-type: none"> <pre> {"lines":[{"data": [[1000,159], [1033,156]],"properties": {"scale":"100"}},{"data": [[1003,288], [1038,286]],"properties": {"scale":"75"}},{"data": [[1010,571], [1044,567]],"properties": {"scale":"20"}}} </pre> data indicates the two endpoints of the calibration line, and scale indicates the corresponding watermark (cm).

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} Ensure that the water ruler falls within the value of this parameter so that the water ruler can be read to generate correct alarms. When the video resolution changes, modify this parameter in the job configuration. If this parameter is unavailable or incorrectly set, the default value is used, that is, the entire video frame.
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw a detection result on the output image. The options are as follows:</p> <ul style="list-style-type: none"> 0: No border will be drawn. 1: The alarm result is drawn in red. The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_calibration_sw	No	Integer	<p>Corresponds to the Render Calibration Switch parameter on the console. This parameter indicates whether to draw the water gauge calibration information for the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: The water gauge calibration information is drawn in green. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Response Parameters

Status code: 200

Table 4-664 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-665 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-666 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-667 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This API is used to create a river water level gauge reading (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

```
POST /v2/{project_id}/services/cali-water-ruler-river-edge/tasks
```

```
{
  "name": "water-ruler-task",
```

```

"description" : "water-ruler task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
  } ]
},
"output" : {
  "webhook" : {
    "url" : "https://apigw.huawei.com/xxx/xxx/callback",
    "headers" : {
      "content-type" : "application/json"
    }
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "report_interval" : 1,
    "image_compression_ratio" : 90,
    "target_roi" : "{\"polygons\" : [{\"data\" : [[0,0],[0,1080],[1920,1080],[1920,0]]}]",
    "calibration_info" : "{\"lines\" : [{\"data\" : [[460,741],[660,741]],\"scale\" : 110},{\"data\" : [[460,420],[660,420]],\"scale\" : 71},{\"data\" : [[460,190],[660,190]],\"scale\" : 22}]",
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "render_calibration_sw" : 1
  }
}
}
}

```

- This API is used to create a river water level gauge reading (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/cali-water-ruler-river-edge/tasks

```

{
  "name" : "water-ruler-task",
  "description" : "water-ruler task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "report_interval" : 1,
      "image_compression_ratio" : 90,
      "target_roi" : "{\"polygons\" : [{\"data\" : [[0,0],[0,1080],[1920,1080],[1920,0]]}]",
      "calibration_info" : "{\"lines\" : [{\"data\" : [[460,741],[660,741]],\"scale\" : 110},{\"data\" : [[460,420],[660,420]],\"scale\" : 71},{\"data\" : [[460,190],[660,190]],\"scale\" : 22}]",
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "render_calibration_sw" : 1
    }
  }
}
}

```

- This API is used to create a river water level gauge reading (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/cali-water-ruler-river-edge/tasks

```
{
  "name": "water-ruler-task",
  "description": "water-ruler task test",
  "input": {
    "type": "vcn",
    "vcn": {
      "ip": "xxx.xxx.xxx.xxx",
      "password": "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/
1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvv2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port": "xxx",
      "username": "testname"
    },
    "data": [ {
      "index": 0,
      "stream_type": 1,
      "device_id": "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "report_interval": 1,
      "image_compression_ratio": 90,
      "target_roi": "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]\"",
      "calibration_info": "{\"lines\": [{\"data\": [[460,741],[660,741]],\"scale\":110},{\"data\": [[460,420],
[660,420]],\"scale\":71},{\"data\": [[460,190],[660,190]],\"scale\":22}]\"",
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "render_calibration_sw": 1
    }
  }
}
```

- This API is used to create a river water level gauge reading (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/cali-water-ruler-river-edge/tasks

```
{
  "name": "water-ruler-task",
  "description": "water-ruler task test",
  "input": {
    "type": "restful",
    "data": [ {
      "index": 0,
      "url": "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check": false,
      "rtsp_path_in_response": "data/url"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
```

```
"report_interval" : 1,  
"image_compression_ratio" : 90,  
"target_roi" : "{\n\"polygons\":{\n\"data\":[[0,0],[0,1080],[1920,1080],[1920,0]]}}",  
"calibration_info" : "{\n\"lines\":{\n\"data\":[[460,741],[660,741]],\n\"scale\":110},{\n\"data\":[[460,420],[660,420]],\n\"scale\":71},{\n\"data\":[[460,190],[660,190]],\n\"scale\":22}}",  
"render_result_sw" : 1,  
"render_roi_sw" : 1,  
"render_calibration_sw" : 1  
}  
}
```

Example Responses

Status code: 200

Operation successful

```
{  
  "tasks" : [ {  
    "id" : "20690c67d71549c39085a3b28c18f24f"  
  } ]  
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.1.40 Creating a Waterlogging Detection (Edge) Task

Function

This API is used to create a waterlogging detection (edge) task.

URI

POST /v2/{project_id}/services/w-ponding-detection-edge/tasks

Table 4-668 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-669 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-670 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	PondingServiceConfig object	Job configuration parameters

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-671 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-672 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-673 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-674 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-675 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-676 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-677 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-678 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-679 PongdingServiceConfig

Parameter	Mandatory	Type	Description
common	No	PongdingCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-680 PondingCommon

Parameter	Mandatory	Type	Description
alert_mode	No	String	<p>Corresponds to the Alert Mode parameter on the console. This parameter specifies the detection alarm mode. Two modes are available:</p> <ul style="list-style-type: none"> • single: one-off alarm mode. When a specific event occurs, an alarm is generated and the event information is reported. • periodic: periodic alarm mode. All status information is reported at a specified detection interval. • The default value is single.
alert_detection_interval	No	Integer	<p>Corresponds to the Detection Interval parameter on the console. This parameter specifies the detection interval in seconds. The value ranges from 10 to 86400.</p> <ul style="list-style-type: none"> • This parameter is valid only when alert_mode is set to periodic. <p>Minimum: 10 Maximum: 86400 Default: 60</p>
ponding_area_ratio_thres	No	Number	<p>Corresponds to the Ponding Area Ratio Threshold parameter on the console. When the ratio of the ponding area to the image area exceeds the threshold, an alarm is triggered and an alarm image is output in JSON format.</p> <p>Minimum: 0 Maximum: 1 Default: 0.1</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to render the ponding area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: The ponding area will not be rendered. • 1: The ponding area will be rendered in red. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-681 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-682 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-683 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information

Parameter	Type	Description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-684 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a waterlogging detection (edge) task, with the input type set to **video_source** and the output type set to **webhook**.

POST /v2/{project_id}/services/w-ponding-detection-edge/tasks

```
{
  "name": "ponding-task",
  "description": "ponding task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "webhook": {
      "url": "https://apigw.huawei.com/xxx/xxx/callback",
      "headers": {
        "content-type": "application/json"
      }
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
```

```

    "alert_mode" : "single",
    "alert_detection_interval" : 60,
    "ponding_area_ratio_thres" : 0.1,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 100, 100 ], [ 1800, 100 ], [ 1800, 1000 ], [ 100, 1000 ] ] ] } }",
    "image_compression_ratio" : 80
  }
}

```

- This request is used to create a waterlogging detection (edge) task, with the input type set to **edgcamera** and the output type set to **dis**.

POST /v2/{project_id}/services/w-ponding-detection-edge/tasks

```

{
  "name" : "ponding-task",
  "description" : "ponding task test",
  "input" : {
    "type" : "edgcamera",
    "data" : [ {
      "id" : "aec5857c-222f-4aa9-be39-23654e118886",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alert_mode" : "single",
      "alert_detection_interval" : 60,
      "ponding_area_ratio_thres" : 0.1,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 100, 100 ], [ 1800, 100 ], [ 1800, 1000 ], [ 100, 1000 ] ] ] } }",
      "image_compression_ratio" : 80
    }
  }
}

```

- This request is used to create a waterlogging detection (edge) task, with the input type set to **vcn** and the output type set to **dis**.

POST /v2/{project_id}/services/w-ponding-detection-edge/tasks

```

{
  "name" : "ponding-task",
  "description" : "ponding task test",
  "input" : {
    "type" : "vcn",
    "vcn" : {
      "ip" : "xxx.xxx.xxx.xxx",
      "password" : "CQeNfcRLwyMvH77AkDBaPS+BKXdFu/1bAXtIMNTx3QPbVewjipNq06nNodxWI2811ICUsvw2+wB1joepzynLVW3g2nz0k9vaCRDoK6=",
      "port" : "xxx",
      "username" : "testname"
    },
    "data" : [ {
      "index" : 0,
      "stream_type" : 1,
      "device_id" : "07211540881586160101#f7964493ff764bbf9294d58b22e63de6"
    } ]
  },
  "output" : {
    "dis" : {

```

```

    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "alert_mode" : "single",
    "alert_detection_interval" : 60,
    "ponding_area_ratio_thres" : 0.1,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}",
    "image_compression_ratio" : 80
  }
}
}
}

```

- This request is used to create a waterlogging detection (edge) task, with the input type set to **restful** and the output type set to **webhook**.

POST /v2/{project_id}/services/w-ponding-detection-edge/tasks

```

{
  "name" : "ponding-task",
  "description" : "ponding task test",
  "input" : {
    "type" : "restful",
    "data" : [ {
      "index" : 0,
      "url" : "http://xxx.xxx.xxx.xxx:xxx/test/data",
      "certificate_check" : false,
      "rtsp_path_in_response" : "data/url"
    } ]
  },
  "output" : {
    "webhook" : {
      "url" : "https://apigw.huawei.com/xxx/xxx/callback",
      "headers" : {
        "content-type" : "application/json"
      }
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alert_mode" : "single",
      "alert_detection_interval" : 60,
      "ponding_area_ratio_thres" : 0.1,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}",
      "image_compression_ratio" : 80
    }
  }
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2 Cloud Service APIs

4.2.1 Creating a People Flow Counting (Cloud) Task

Function

This API is used to create a people flow counting (cloud) task.

URI

POST /v2/{project_id}/services/c-flowcount-cloud/tasks

Table 4-685 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-686 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-687 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	FlowCountServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-688 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-689 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-690 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-691 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-692 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-693 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-694 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-695 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-696 FlowCountServiceConfig

Parameter	Mandatory	Type	Description
common	No	FlowCountCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-697 FlowCountCommon

Parameter	Mandatory	Type	Description
line_count_interval	No	Integer	Interval for collecting the number of people per second who cross a particular straight line in a video. The value ranges from 1 to 86400 and the default value is 2 . Minimum: 1 Maximum: 86400 Default: 2

Parameter	Mandatory	Type	Description
region_count_interval	No	Integer	Interval for collecting the number of people per second who cross through a particular area. The value ranges from 1 to 86400 and the default value is 2. Minimum: 1 Maximum: 86400 Default: 2
line_detection_sw	No	Integer	Whether to collect the number of people who cross a particular straight line in a video. 0: disabled. 1: enabled. The default value is 1. Minimum: 0 Maximum: 1 Default: 1
region_detection_sw	No	Integer	Whether to collect the number of people who cross through a particular area. 0: disabled. 1: enabled. The default value is 1. Minimum: 0 Maximum: 1 Default: 1
heatmap_detection_sw	No	Integer	Whether to enable heatmap detection. 0: disabled. 1: enabled. The default value is 0. Minimum: 0 Maximum: 1 Default: 0
heatmap_detection_interval	No	Integer	Heatmap detection period, in seconds. The value ranges from 10 to 86400 and the default value is 10. Minimum: 10 Maximum: 86400 Default: 10

Parameter	Mandatory	Type	Description
heatmap_point_interval	No	Integer	Hotspot update period, in frames. In a heatmap detection period, hotspot values gradually accumulate. The value ranges from 1 to 10000 and the default value is 4 . Minimum: 1 Maximum: 10000 Default: 4

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: <code>{"lines":[{"data": [[560,680], [1185,506]],"properties":{"side1_name":"Side1","side2_name":"Side2"}],"polygons":[{"data": [[0,0], [0,1080], [1920,1080], [1920,0]]}]}</code> If the line configuration is not specified, the default value is used. By default, the line is horizontal and drawn at the position where the height is 50% of the image height. If the image width is w and the image height is h, the default position of the line is $[[1/4w, 1/2h], [3/4w, 1/2h]]$. If the area configuration is not specified, the default value is used. By default, the area is a rectangle, which is 1/4 of the middle of the entire video frame. If the image width is w and the image height is h, the positions of the four endpoints of the area are $[[1/4w, 1/4h], [3/4w, 1/4h], [1/4w, 3/4h], [3/4w, 3/4h]]$.

Response Parameters

Status code: 200

Table 4-698 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-699 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-700 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-701 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause

Parameter	Type	Description
advice	String	Suggestion

Example Requests

- This request is used to create a people flow counting task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-flowcount-cloud/tasks

```
{
  "name": "flowcount-task",
  "description": "flowcount task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "line_count_interval": 2,
      "region_count_interval": 2,
      "line_detection_sw": 1,
      "region_detection_sw": 1,
      "target_roi": "{\"lines\":{\"data\":[[560,680],[1185,506]],\"properties\":{\"side1_name\": \"Side1\\\", \"side2_name\": \"Side2\\\"}}, \"polygons\":{\"data\":[[0,0],[0,1080],[1920,1080],[1920,0]]}\"",
      "heatmap_detection_sw": 0,
      "heatmap_detection_interval": 60,
      "heatmap_point_interval": 4
    }
  }
}
```

- This request is used to create a people flow counting task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-flowcount-cloud/tasks

```
{
  "name": "flowcount-task",
  "description": "flowcount task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
```

```

"common" : {
  "line_count_interval" : 2,
  "region_count_interval" : 2,
  "line_detection_sw" : 1,
  "region_detection_sw" : 1,
  "target_roi" : "{\"lines\": [{\"data\": [[560,680],[1185,506]], \"properties\": {\"side1_name\": \"Side1\", \"side2_name\": \"Side2\"}}, \\\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}\",
  "heatmap_detection_sw" : 0,
  "heatmap_detection_interval" : 60,
  "heatmap_point_interval" : 4
}
}
}

```

- This request is used to create a people flow counting task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-flowcount-cloud/tasks

```

{
  "name": "flowcount-task",
  "description": "flowcount task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "line_count_interval": 2,
      "region_count_interval": 2,
      "line_detection_sw": 1,
      "region_detection_sw": 1,
      "target_roi" : "{\"lines\": [{\"data\": [[560,680],[1185,506]], \"properties\": {\"side1_name\": \"Side1\", \"side2_name\": \"Side2\"}}, \\\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}\",
      "heatmap_detection_sw" : 0,
      "heatmap_detection_interval" : 60,
      "heatmap_point_interval" : 4
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.2 Creating an Intrusion Detection (Cloud) Task

Function

This API is used to create an intrusion detection (cloud) task.

URI

POST /v2/{project_id}/services/c-intrusiondetection-cloud/tasks

Table 4-702 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-703 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-704 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	IntrusionServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-705 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-706 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-707 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-708 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-709 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-710 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-711 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-712 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-713 IntrusionServiceConfig

Parameter	Mandatory	Type	Description
common	No	IntrusionCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-714 IntrusionCommon

Parameter	Mandatory	Type	Description
car_detection_sw	No	Integer	Corresponds to the Car Detection Switch parameter on the console. 0 : disabled. 1 : enabled. The default value is 0 . Minimum: 0 Maximum: 1 Default: 0

Parameter	Mandatory	Type	Description
person_detection_sw	No	Integer	Corresponds to the Person Detection Switch parameter on the console. 0 : disabled. 1 : enabled. The default value is 1 . Minimum: 0 Maximum: 1 Default: 1
detection_min_size	No	Integer	Corresponds to the Detection Minimum Size parameter on the console. This parameter specifies the minimum pixel value of the detection object. The value ranges from 60 to 4000 and the default value is 60 . Minimum: 60 Maximum: 4000 Default: 60
detection_max_size	No	Integer	Corresponds to the Detection Maximum Size parameter on the console. This parameter specifies the maximum pixel value of the detection object. The value ranges from 640 to 4000 and the default value is 1080 . Minimum: 640 Maximum: 4000 Default: 1080
line_detection_sw	No	Integer	Corresponds to the Line Detection Switch parameter on the console. 0 : disabled. 1 : enabled. The default value is 1 . Minimum: 0 Maximum: 1 Default: 1

Parameter	Mandatory	Type	Description
region_detection_sw	No	Integer	Corresponds to the Region Detection Switch parameter on the console. 0 : disabled. 1 : enabled. The default value is 1 . Minimum: 0 Maximum: 1 Default: 1
loitering_detection_sw	No	Integer	Corresponds to the Loitering Detection Switch parameter on the console. 0 : disabled. 1 : enabled. The default value is 0 . Minimum: 0 Maximum: 1 Default: 0
loitering_send_interval	No	Integer	Corresponds to the Loitering Send Interval parameter on the console. The value range is [5, 21600], in seconds. The default value is 300 , indicating that a loitering detection alarm is triggered when a pedestrian stays in the specified area for more than 300 seconds. Minimum: 5 Maximum: 21600 Default: 300
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
all_print_sw	No	Integer	<p>Corresponds to the All Print Switch parameter on the console. This parameter is valid only for intrusion detection. It specifies whether to include historical intrusion alarms in the output. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No historical alarms are contained in the output. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"lines":[{"data": [[560,680], [1185,506]],"properties": {"side1_name":"Side1","side2_name":"Side2"}],"polygons":[{"data": [[0,0], [0,1080], [1920,1080], [1920,0]]}]} If this parameter is not specified, the detection area is the entire video frame. By default, the line is drawn at the position where the height is 50% of the image height. If the image width is w and the image height is h, the default position of the line is $[[1/4w, 1/2h], [3/4w, 1/2h]]$.

Response Parameters

Status code: 200

Table 4-715 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-716 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-717 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-718 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an intrusion detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-intrusiondetection-cloud/tasks
{
  "name": "intrusiondetection-task",
```

```
"description" : "intrusiondetection task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "car_detection_sw" : 0,
    "person_detection_sw" : 1,
    "detection_min_size" : 60,
    "detection_max_size" : 1080,
    "line_detection_sw" : 1,
    "region_detection_sw" : 1,
    "loitering_detection_sw" : 0,
    "loitering_send_interval" : 300,
    "image_compression_ratio" : 90,
    "render_result_sw" : 1,
    "all_print_sw" : 0,
    "render_roi_sw" : 1,
    "target_roi" : "{\\"lines\\":{\\\"data\\":[[560,680],[1185,506]],\\"properties\\":{\\\"side1_name\\":\\"Side1\\\",\\\"side2_name\\":\\"Side2\\\"}},\\"polygons\\":{\\\"data\\":[[0,0],[0,1080],[1920,1080],[1920,0]]}}}"
  }
}
}
```

- This request is used to create an intrusion detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-intrusiondetection-cloud/tasks

```
{
  "name" : "intrusiondetection-task",
  "description" : "intrusiondetection task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "car_detection_sw" : 0,
      "person_detection_sw" : 1,
      "detection_min_size" : 60,
      "detection_max_size" : 1080,
      "line_detection_sw" : 1,
      "region_detection_sw" : 1,
      "loitering_detection_sw" : 0,
      "loitering_send_interval" : 300,
      "image_compression_ratio" : 90,
      "render_result_sw" : 1,
      "all_print_sw" : 0,

```

```

        "render_roi_sw" : 1,
        "target_roi" : "{ \"lines\": [{ \"data\": [[560,680],[1185,506]], \"properties\": { \"side1_name\": \"Side1\", \"side2_name\": \"Side2\" } } ], \"polygons\": [{ \"data\": [[0,0],[0,1080],[1920,1080],[1920,0]] } } }"
    }
}

```

- This request is used to create an intrusion detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-intrusiondetection-cloud/tasks

```

{
  "name": "intrusiondetection-task",
  "description": "intrusiondetection task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "car_detection_sw": 0,
      "person_detection_sw": 1,
      "detection_min_size": 60,
      "detection_max_size": 1080,
      "line_detection_sw": 1,
      "region_detection_sw": 1,
      "loitering_detection_sw": 0,
      "loitering_send_interval": 300,
      "image_compression_ratio": 90,
      "render_result_sw": 1,
      "all_print_sw": 0,
      "render_roi_sw": 1,
      "target_roi": "{ \"lines\": [{ \"data\": [[560,680],[1185,506]], \"properties\": { \"side1_name\": \"Side1\", \"side2_name\": \"Side2\" } } ], \"polygons\": [{ \"data\": [[0,0],[0,1080],[1920,1080],[1920,0]] } } }"
    }
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```


Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.3 Creating a Key Position On-Duty Inspection (Cloud) Task

Function

This API is used to create an on-duty inspection (cloud) task for key positions.

URI

POST /v2/{project_id}/services/c-staffonduty-cloud/tasks

Table 4-719 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-720 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-721 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	StaffOnDuty ServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-722 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-723 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-724 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-725 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-726 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-727 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-728 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-729 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-730 StaffOnDutyServiceConfig

Parameter	Mandatory	Type	Description
common	No	StaffOnDuty Common object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-731 StaffOnDutyCommon

Parameter	Mandatory	Type	Description
key_region_detection_sw	No	Integer	Corresponds to the Key Region Detection Switch parameter on the console. This parameter specifies whether to enable detection alarms. The options are as follows: <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. Minimum: 0 Maximum: 1 Default: 1
key_region_person_count	No	Integer	Corresponds to the Key Region Person Count parameter on the console. This parameter specifies the minimum number of on-duty staffs in a detection area. The value ranges from 1 to 100 and the default value is 2 . Minimum: 1 Maximum: 100 Default: 2
key_region_detection_interval	No	Integer	Corresponds to the Key Region Detection Interval parameter on the console. This parameter specifies the detection interval of the specified area, in seconds. The value ranges from 1 to 3600 and the default value is 1 . When the time is an integral multiple of the detection period, the algorithm is triggered to detect the number of on-duty staffs. Minimum: 1 Maximum: 3600 Default: 1

Parameter	Mandatory	Type	Description
key_region_detect_threshold	No	Integer	<p>Corresponds to the Key Region Detection Threshold parameter on the console.</p> <ul style="list-style-type: none"> Alarm triggering threshold, in the unit of the number of detection periods. The value ranges from 1 to 3600 and the default value is 60. If the alarm triggering threshold is N, when the number of on-duty staffs is less than the minimum number in N consecutive detection periods, an alarm is triggered. When an alarm is triggered or the number of on-duty staffs reaches the minimum number, the counting restarts until the number reaches the alarm triggering threshold again. <p>Minimum: 1 Maximum: 3600 Default: 60</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter indicates the detection area, which is a JSON string. An escape character must be added in an API call. You need to set the coordinates and names of the areas. Multi-area detection is supported. You need to enter different names for different areas. The default area name is Central_Area. The area is marked with a yellow bounding box in the alarm image. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[694,83], [718,406],[1202,422], [1204,78]], "name": "region-1"}, {"data": [[1379,164], [1407,649],[1872,700], [1844,206]], "name": "region-2"}, {"data": [[701,640], [718,918],[1296,921], [1286,634]], "name": "region-3"}]} If this parameter is not specified, the detection area is 1/4 of the entire video frame. If the image width is w and the image height is h, the positions of the four endpoints of the area are [[1/4w, 1/4h], [3/4w, 1/4h], [1/4w, 3/4h], [3/4w, 3/4h]].

Response Parameters

Status code: 200

Table 4-732 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-733 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-734 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-735 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause

Parameter	Type	Description
advice	String	Suggestion

Example Requests

- This request is used to create a key position on-duty inspection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-staffonduty-cloud/tasks

```
{
  "name": "staffonduty-task",
  "description": "staffonduty task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{ \"polygons\": [{ \"data\": [[484,465],[1850,450],[1905,1013],[515,1050]] }, { \"data\": [[484,125],[1800,125],[1800,677],[495,677]] } ] }",
      "image_compression_ratio": 90,
      "key_region_detection_sw": 1,
      "key_region_detect_interval": 2,
      "key_region_detect_threshold": 2,
      "key_region_person_count": 50
    }
  }
}
```

- This request is used to create a key position on-duty inspection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-staffonduty-cloud/tasks

```
{
  "name": "staffonduty-task",
  "description": "staffonduty task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{ \"polygons\": [{ \"data\": [[484,465],[1850,450],[1905,1013],[515,1050]] }, { \"data\": [[484,125],[1800,125],[1800,677],[495,677]] } ] }",
      "image_compression_ratio": 90,
    }
  }
}
```

```

    "key_region_detection_sw" : 1,
    "key_region_detect_interval" : 2,
    "key_region_detect_threshold" : 2,
    "key_region_person_count" : 50
  }
}

```

- This request is used to create a key position on-duty inspection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-staffonduty-cloud/tasks

```

{
  "name": "staffonduty-task",
  "description": "staffonduty task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{ \"polygons\": [ { \"data\": [ [484,465],[1850,450],[1905,1013],[515,1050]] }, { \"data\": [[484,125],[1800,125],[1800,677],[495,677]] } ] }",
      "image_compression_ratio": 90,
      "key_region_detection_sw": 1,
      "key_region_detect_interval": 2,
      "key_region_detect_threshold": 2,
      "key_region_person_count": 50
    }
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.4 Creating an Abandoned Object Detection (Cloud) Task

Function

This API is used to create an abandoned object detection (cloud) task.

URI

POST /v2/{project_id}/services/c-abandon-detection-cloud/tasks

Table 4-736 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-737 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-738 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).

Parameter	Mandatory	Type	Description
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	AbandonServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9.]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-739 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .

Parameter	Mandatory	Type	Description
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-740 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-741 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-742 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-743 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-744 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-745 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-746 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-747 AbandonServiceConfig

Parameter	Mandatory	Type	Description
common	No	AbandonCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-748 AbandonCommon

Parameter	Mandatory	Type	Description
detection_min_size	No	Integer	Corresponds to the Detection Minimum Size parameter on the console. This parameter specifies the minimum pixel value of the detection object. The value is in direct proportion to the resolution. In the 1080p resolution, the value ranges from 50 to 400 and the default value is 50 . Minimum: 50 Maximum: 400 Default: 50
alert_time_threshold	No	Integer	Corresponds to the Alert Time Threshold parameter on the console. This parameter specifies the threshold for generating an alarm for an abandoned object. When the duration that an object is abandoned exceeds the threshold (in the unit of seconds), an alarm will be generated. The value ranges from 10 to 300 and the default value is 10 . Minimum: 10 Maximum: 300 Default: 10

Parameter	Mandatory	Type	Description
alert_detection_interval	No	Integer	<p>Corresponds to the Alert Detection Interval parameter on the console. This parameter specifies the interval for detecting abandoned object alarms. If multiple alarms are generated in an interval (in the unit of seconds), they are combined into one alarm. The value ranges from 1 to 150 and the default value is 5. The recommended value ranges from 1 to 1/2 of the alert_time_threshold value.</p> <p>Minimum: 1 Maximum: 150 Default: 5</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> • This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. • Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} • If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-749 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-750 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-751 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-752 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details

Parameter	Type	Description
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an abandoned object detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-abandon-detection-cloud/tasks

```
{
  "name": "abandon-detection-task",
  "description": "Abandon Detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "detection_min_size": 50,
      "alert_time_threshold": 10,
      "alert_detection_interval": 5,
      "image_compression_ratio": 80,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
      "render_result_sw": 1,
      "render_roi_sw": 1
    }
  }
}
```

- This request is used to create an abandoned object detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-abandon-detection-cloud/tasks

```
{
  "name": "abandon-detection-task",
  "description": "Abandon Detection task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  }
}
```

```
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "detection_min_size" : 50,
    "alert_time_threshold" : 10,
    "alert_detection_interval" : 5,
    "image_compression_ratio" : 80,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
    "render_result_sw" : 1,
    "render_roi_sw" : 1
  }
}
}
```

- This request is used to create an abandoned object detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-abandon-detection-cloud/tasks

```
{
  "name": "abandon-detection-task",
  "description": "Abandon Detection task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "detection_min_size" : 50,
      "alert_time_threshold" : 10,
      "alert_detection_interval" : 5,
      "image_compression_ratio" : 80,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
      "render_result_sw" : 1,
      "render_roi_sw" : 1
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```


Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.5 Creating a Crowd Density Monitoring (Cloud) Task

Function

This API is used to create a crowd density monitoring (cloud) task.

URI

POST /v2/{project_id}/services/c-crowdcount-cloud/tasks

Table 4-753 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-754 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-755 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	CrowdCountsServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-756 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-757 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-758 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-759 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-760 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-761 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-762 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-763 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-764 CrowdCountServiceConfig

Parameter	Mandatory	Type	Description
common	No	CrowdCount Common object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-765 CrowdCountCommon

Parameter	Mandatory	Type	Description
alarm_threshold	No	String	<p>People count alarm thresholds. Default value: 50. The value must be a positive integer. When the number of people in a video frame is greater than or equal to the threshold, the video image is output in JSON format for alarm. You can enter different alarm thresholds for each ROI. The alarm thresholds are separated by spaces.</p> <ul style="list-style-type: none"> • If the number of alarm thresholds within the list is greater than the actual number of ROIs, the first alarm thresholds matching the number of ROIs are used. • If the number of alarm thresholds within the list is less than the actual number of ROIs, use the default value for the rest part. • For example, if there are three ROIs and three threshold values (25 30 20) are entered, the image is sent as long as one ROI alarm is generated. When there are only two values (25 15) are entered, the threshold of the third ROI will be defaulted to 50. When there are more than three threshold values (such as 25 36 23 40) are entered, the first three values (25 36 23) are automatically selected.

Parameter	Mandatory	Type	Description
sampling_time_interval	No	Integer	<p>Interval at which video sampling is performed. The default value is 10s. The value range is [5, 3600], seconds. By default, a video image is sampled every 10 seconds, and N frames will be skipped between every two image samplings.</p> <ul style="list-style-type: none"> $N = \text{sampling_time_interval} \times \text{Frame rate (fps)}$. For example, if the frame rate is 25 fps and the sampling interval is 1 second, 25 frames will be skipped between every two image samplings. <p>Minimum: 5 Maximum: 3600 Default: 10</p>
alert_mode	No	String	<p>Alarming mode. Default value: single. There are two alarm modes:</p> <ul style="list-style-type: none"> single: event alarming. An alarm is reported only when a new alarm event is generated and the number of people reaches the alarm threshold. periodic: periodic alarming. An alarm is reported each time a video sampling interval expires. <p>Default: single</p>
banner_detection_sw	No	Integer	<p>Whether to enable protest banner detection. The value ranges from 0 to 1 and the default value is 0. When the function is enabled, the system detects banners in the ROI area of video images.</p> <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
banner_thresh old	No	String	List of banner detection alarm thresholds. The default value is 1 . The value must be a positive integer. For details about how to use this parameter, see alarm_threshold .
visualization_ output_sw	No	Integer	Whether to send the edited video image with scenario information in it. The value ranges from 0 to 1 and the default value is 0 . By default, when the number of people in each ROI exceeds the alarm threshold, only the structured information of the original image is sent. The detected people and banners can be displayed only after the visualization function is enabled. The visualized alarm information in images for different scenarios is as follows: <ul style="list-style-type: none"> • Banners for protests are marked in red boxes. • If a densely populated area is detected, the area is rendered in different colors. • Each ROI is marked with a yellow polygon in the image. Minimum: 0 Maximum: 1 Default: 0

Parameter	Mandatory	Type	Description
density_sw	No	Integer	<p>Density estimation status. You can customize whether to use a density estimation model to evaluate the number of people. Use a density estimation model if the number of people is large and the alarm threshold is large.</p> <ul style="list-style-type: none"> A density estimation model is used by default. The value ranges from 0 to 1 and the default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-766 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-767 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-768 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-769 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details

Parameter	Type	Description
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a crowd density monitoring (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-crowdcount-cloud/tasks
{
  "name": "crowdcount-task",
  "description": "CrowdCountDetection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "crowdcount"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "banner_detection_sw": 1,
      "banner_threshold": "2",
      "alarm_threshold": "5",
      "sampling_time_interval": 8,
      "density_sw": 1,
      "visualization_output_sw": 1,
      "image_compression_ratio": 80,
      "target_roi": "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
    }
  }
}
```

- This request is used to create a crowd density monitoring (cloud) task, with the input type set to **obs** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-crowdcount-cloud/tasks
{
  "name": "crowdcount-task",
  "description": "CrowdCountDetection task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "crowdcount"
    }
  }
}
```



```

    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "banner_detection_sw": 1,
      "banner_threshold": "2",
      "alarm_threshold": "5",
      "sampling_time_interval": 8,
      "density_sw": 1,
      "visualization_output_sw": 1,
      "image_compression_ratio": 80,
      "target_roi": "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
    }
  }
}

```

- This request is used to create a crowd density monitoring (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-crowdcount-cloud/tasks

```

{
  "name": "crowdcount-task",
  "description": "CrowdCountDetection task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "crowdcount"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "banner_detection_sw": 1,
      "banner_threshold": "2",
      "alarm_threshold": "5",
      "sampling_time_interval": 8,
      "density_sw": 1,
      "visualization_output_sw": 1,
      "image_compression_ratio": 80,
      "target_roi": "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
    }
  }
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.6 Creating a Work Gear and Helmet Detection (Cloud) Task

Function

This API is used to create a work gear and helmet detection (cloud) task.

URI

POST /v2/{project_id}/services/c-safetysuitedetection-cloud/tasks

Table 4-770 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-771 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-772 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	SafetySuitServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-773 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-774 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-775 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-776 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-777 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-778 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-779 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-780 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-781 SafetySuitServiceConfig

Parameter	Mandatory	Type	Description
common	No	SafetySuitCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-782 SafetySuitCommon

Parameter	Mandatory	Type	Description
hat_detection_sw	No	Integer	Corresponds to the Hat Detection Switch parameter on the console. The options are as follows: <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. Minimum: 0 Maximum: 1 Default: 1

Parameter	Mandatory	Type	Description
cloth_detection_sw	No	Integer	<p>Corresponds to the Clothes Detection Switch parameter on the console. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-783 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-784 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-785 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-786 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a work gear and helmet detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-safetysuitedetection-cloud/tasks
```

```
{
  "name": "safetysuite-detection-task",
```

```

"description" : "safetysuite detection task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxx"
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "hat_detection_sw" : 0,
    "cloth_detection_sw" : 1,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 84, 389 ], [ 1840, 349 ], [ 1824, 526 ], [ 78, 526 ] ] } ] }",
    "image_compression_ratio" : 90
  }
}
}

```

- This request is used to create a work gear and helmet detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-safetysuitedetection-cloud/tasks

```

{
  "name" : "safetysuite-detection-task",
  "description" : "safetysuite detection task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "hat_detection_sw" : 0,
      "cloth_detection_sw" : 1,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 84, 389 ], [ 1840, 349 ], [ 1824, 526 ], [ 78, 526 ] ] } ] }",
      "image_compression_ratio" : 90
    }
  }
}

```

- This request is used to create a work gear and helmet detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-safetysuitedetection-cloud/tasks

```

{
  "name" : "safetysuite-detection-task",
  "description" : "safetysuite detection task test",
  "input" : {
    "type" : "obs",
    "data" : [ {

```

```

    "bucket": "obs_test_video",
    "path": "test.mp4",
    "index": 0
  } ]
},
"output": {
  "dis": {
    "stream_name": "dis-test"
  }
},
"service_version": "3.0",
"resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config": {
  "common": {
    "hat_detection_sw": 0,
    "cloth_detection_sw": 1,
    "render_result_sw": 1,
    "render_roi_sw": 1,
    "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
    "image_compression_ratio": 90
  }
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.7 Creating a Smoke and Fire Detection (Cloud) Task

Function

This API is used to create a smoke and fire detection (cloud) task.

URI

POST /v2/{project_id}/services/c-smoke-and-fire-cloud/tasks

Table 4-787 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-788 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-789 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.

Parameter	Mandatory	Type	Description
config	No	SmokeAndFireServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-790 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-791 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-792 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-793 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-794 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-795 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-796 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-797 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-798 SmokeAndFireServiceConfig

Parameter	Mandatory	Type	Description
common	No	SmokeAndFireCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-799 SmokeAndFireCommon

Parameter	Mandatory	Type	Description
video_sampl ing_interval	No	Integer	Corresponds to the Video Sampling Interval parameter on the console. The value ranges from 1 to 10 in the unit of seconds and the default value is 1 . Note: This parameter determines the detection frequency of the algorithm. If the interval increases, the maximum delay from smoke or fire occurrence to detection increases. Configure this parameter based on the acceptable response delay. Minimum: 1 Maximum: 10 Default: 1
fire_detection _sw	No	Integer	Corresponds to the Fire Detection Switch parameter on the console. The options are as follows: <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. Minimum: 0 Maximum: 1 Default: 1
smoke_detecti on_sw	No	Integer	Corresponds to the Smoke Detection Switch parameter on the console. The options are as follows: <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. Minimum: 0 Maximum: 1 Default: 1

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: When the alarm is for smoke, the alarm object border is drawn in purple. When the alarm is for fire, the alarm object border is drawn in red. <p>• The default value is 0. Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. <p>• The default value is 0. Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-800 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-801 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-802 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-803 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a smoke and fire detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-smoke-and-fire-cloud/tasks

```
{
  "name": "fireandsmoke-detection-task",
  "description": "fireandsmoke detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,

```

```

        "render_result_sw" : 1,
        "video_sampling_interval" : 1,
        "target_roi" : "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],[228,24]]}]}",
        "render_roi_sw" : 1,
        "fire_detection_sw" : 1,
        "smoke_detection_sw" : 1
    }
}
}

```

- This request is used to create a smoke and fire detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-smoke-and-fire-cloud/tasks

```

{
  "name": "fireandsmoke-detection-task",
  "description": "fireandsmoke detection task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_result_sw": 1,
      "video_sampling_interval": 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],[228,24]]}]}",
      "render_roi_sw" : 1,
      "fire_detection_sw" : 1,
      "smoke_detection_sw" : 1
    }
  }
}
}

```

- This request is used to create a smoke and fire detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-smoke-and-fire-cloud/tasks

```

{
  "name": "fireandsmoke-detection-task",
  "description": "fireandsmoke detection task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index" : 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {

```

```

"common" : {
  "image_compression_ratio" : 90,
  "render_result_sw" : 1,
  "video_sampling_interval" : 1,
  "target_roi" : "{\\"polygons\\":[{\\"data\\":[[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],
[228,24]]]]}",
  "render_roi_sw" : 1,
  "fire_detection_sw" : 1,
  "smoke_detection_sw" : 1
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.8 Creating a Fight Detection (Cloud) Task

Function

This API is used to create a fight detection (cloud) task.

URI

POST /v2/{project_id}/services/c-fightdetect-cloud/tasks

Table 4-804 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-805 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-806 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	FightDetectServiceConfig object	Job configuration parameters.

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-807 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-808 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-809 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-810 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-811 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-812 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-813 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-814 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-815 FightDetectServiceConfig

Parameter	Mandatory	Type	Description
common	No	FightDetectCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-816 FightDetectCommon

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-817 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-818 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-819 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-820 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a fight detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-fightdetect-cloud/tasks

```
{
  "name": "fight-detection-task",
  "description": "fight detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,

```

```

    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],
[228,24]]}]}",
    "render_roi_sw" : 1
  }
}
}

```

- This request is used to create a fight detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-fightdetect-cloud/tasks

```

{
  "name": "fight-detection-task",
  "description": "fight detection task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],
[228,24]]}]}",
      "render_roi_sw": 1
    }
  }
}

```

- This request is used to create a fight detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-fightdetect-cloud/tasks

```

{
  "name": "fight-detection-task",
  "description": "fight detection task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[204,64],[90,321],[511,319],[617,221],[582,38],[320,11],
[228,24]]}]}",
      "render_roi_sw": 1
    }
  }
}

```

```
}
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.9 Creating a Shared Bicycle Detection (Cloud) Task

Function

This API is used to create a shared bicycle detection (cloud) task.

URI

POST /v2/{project_id}/services/c-sharedbicycledetection-cloud/tasks

Table 4-821 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-822 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-823 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	SharedBicycleServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-824 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-825 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-826 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-827 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-828 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-829 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([^\:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-830 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-831 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-832 SharedBicycleServiceConfig

Parameter	Mandatory	Type	Description
common	No	SharedBicycleCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-833 SharedBicycleCommon

Parameter	Mandatory	Type	Description
alert_mode	No	String	Alarming mode. There are two alarm modes: <ul style="list-style-type: none"> • single: one-off alarming. When a specific event occurs, an alarm is generated and the event information is reported. • periodic: periodic alarming. An alarm is reported each time a detection period expires. • The default value is single.
alert_detection_interval	No	Integer	Corresponds to the Alert Detection Interval parameter on the console. This parameter specifies a parking violation detection period for shared bicycles, in seconds. The value ranges from 1 to 3600. Minimum: 1 Maximum: 3600 Default: 60
illegal_park_alert_threshold	No	Integer	Corresponds to the Illegal Park Alert Threshold parameter on the console. This parameter specifies an alarm triggering threshold, in seconds. The value ranges from 10 to 300. If a shared bicycle stays longer than the specified time, an alarm is reported. Minimum: 10 Maximum: 300 Default: 30

Parameter	Mandatory	Type	Description
all_print	No	Integer	<p>Whether to render all alarm objects in an output image. The value ranges from 0 to 1 and the default value is 0.</p> <ul style="list-style-type: none"> • 0: Draw the border of the target object for the current alarm only. For details about the rendering mode, see normal_render. • 1: Draw all alarmed shared bicycles with parking violations in an image. The color of the new alarm object is different from that of other rendered objects. • When normal_render is set to 0, the current alarm object is rendered in red boxes, a warning flag, and red background, and historical alarm objects are rendered in yellow boxes and yellow background. • When normal_render is set to 1, the current alarm object is rendered in light red boxes, and historical alarm objects are rendered in dark red boxes. • This field takes effect only when target box rendering is enabled. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to render the detection box in an output image. For details about the rendering mode, see normal_render. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
normal_rende r	No	Integer	<p>Classic rendering status. The value ranges from 0 to 1 and the default value is 0. When all_print is set to 0, the options for rendering an image object are as follows:</p> <ul style="list-style-type: none"> • When the value is 1, the object is marked in a red box. • When the value is 0, the object is marked in a red box with a red background, and a warning flag is marked in the upper left corner of the box. • When the value is 1, render the image based on the all_print value. For details, see all_print. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> • A parking-prohibited area is identified by "name":"illegal*". When a vehicle parks in the parking-prohibited area, a parking violation event is triggered. Other fields can be added after illegal as the flag of roi, for example, illegal01. • If the value of name is not starting with illegal, the area is a valid parking area by default. • The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. • Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "illegal01"}]} • If this parameter is not specified, the entire video frame is parking-prohibited by default.

Response Parameters

Status code: 200

Table 4-834 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-835 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-836 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-837 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a shared bicycle detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-sharedbicycledetection-cloud/tasks
```

```
{
  "name": "shared-bicycle-detection-task",
```

```
"description" : "shared-bicycle detection task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxx"
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "alert_mode" : "single",
    "alert_detection_interval" : 60,
    "illegal_park_alert_threshold" : 30,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"illegal01\"}]}",
    "image_compression_ratio" : 90
  }
}
}
```

- This request is used to create a shared bicycle detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-sharedbicycledetection-cloud/tasks

```
{
  "name" : "shared-bicycle-detection-task",
  "description" : "shared-bicycle detection task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alert_mode" : "single",
      "alert_detection_interval" : 60,
      "illegal_park_alert_threshold" : 30,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"illegal01\"}]}",
      "image_compression_ratio" : 90
    }
  }
}
```

- This request is used to create a shared bicycle detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-sharedbicycledetection-cloud/tasks

```
{
  "name" : "shared-bicycle-detection-task",
  "description" : "shared-bicycle detection task test",
  "input" : {
```

```

"type": "obs",
"data": [ {
  "bucket": "obs_test_video",
  "path": "test.mp4",
  "index": 0
} ]
},
"output": {
  "dis": {
    "stream_name": "dis-test"
  }
},
"service_version": "3.0",
"resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config": {
  "common": {
    "alert_mode": "single",
    "alert_detection_interval": 60,
    "illegal_park_alert_threshold": 30,
    "render_result_sw": 1,
    "target_roi": "{ \"polygons\": [{ \"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"illegal01\" } ] }",
    "image_compression_ratio": 90
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.10 Creating an Individual Behavior Detection (Cloud) Task

Function

This API is used to create an individual behavior detection (cloud) task.

URI

POST /v2/{project_id}/services/c-event-action-recog-cloud/tasks

Table 4-838 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-839 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-840 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.

Parameter	Mandatory	Type	Description
config	No	EventActionsServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression ^[a-z0-9.]{3,32}\$. Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression ^[a-z0-9-]{4,36}\$. Minimum: 4 Maximum: 36

Table 4-841 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-842 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-843 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-844 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-845 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-846 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-847 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-848 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-849 EventActionServiceConfig

Parameter	Mandatory	Type	Description
common	No	EventActionCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-850 EventActionCommon

Parameter	Mandatory	Type	Description
smoking_detection_sw	No	Integer	<p>Corresponds to the Smoking Detection Switch parameter on the console. This parameter specifies whether to detect smoking for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. <p>Minimum: 0 Maximum: 1 Default: 1</p>
phoning_detection_sw	No	Integer	<p>Corresponds to the Phoning Detection Switch parameter on the console. This parameter specifies whether to detect phone calling for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. <p>Minimum: 0 Maximum: 1 Default: 0</p>
suspected_output_sw	No	Integer	<p>Corresponds to the Suspected Output Switch parameter on the console. This parameter determines whether to output alarms for suspected events. The options are as follows:</p> <ul style="list-style-type: none"> • 0: Alarms are not generated for suspected events. • 1: Alarms are generated for suspected events. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-851 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-852 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-853 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-854 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an individual behavior detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-event-action-recog-cloud/tasks

```
{
  "name": "event-action-detection-task",
  "description": "event-action detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "smoking_detection_sw": 1,

```

```

    "phoning_detection_sw" : 0,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
    "image_compression_ratio" : 90,
    "suspected_output_sw" : 1
  }
}
}

```

- This request is used to create an individual behavior detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-event-action-recog-cloud/tasks

```

{
  "name": "event-action-detection-task",
  "description": "event-action detection task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "smoking_detection_sw": 1,
      "phoning_detection_sw": 0,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}",
      "image_compression_ratio": 90,
      "suspected_output_sw": 1
    }
  }
}
}

```

- This request is used to create an individual behavior detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-event-action-recog-cloud/tasks

```

{
  "name": "event-action-detection-task",
  "description": "event-action detection task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "smoking_detection_sw": 1,

```

```

"phoning_detection_sw" : 0,
"render_result_sw" : 1,
"render_roi_sw" : 1,
"target_roi" : "{\"polygons\":[{\"data\":[[84,389],[1840,349],[1824,526],[78,526]]}]}",
"image_compression_ratio" : 90,
"suspected_output_sw" : 1
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.11 Creating an Individual Action Detection (Cloud) Task

Function

This API is used to create an individual action detection (cloud) task.

URI

POST /v2/{project_id}/services/c-pose-action-recog-cloud/tasks

Table 4-855 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-856 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-857 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	PoseActionServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-858 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-859 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> ● video_source ● obs (not recommended and will be discontinued) ● url (not recommended and will be discontinued) ● edgcamera (not recommended and will be discontinued) ● restful (not recommended and will be discontinued) ● vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-860 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-861 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-862 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-863 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-864 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-865 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-866 PoseActionServiceConfig

Parameter	Mandatory	Type	Description
common	No	PoseActionCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-867 PoseActionCommon

Parameter	Mandatory	Type	Description
climb_detection_sw	No	Integer	<p>Corresponds to the Climb Detection Switch parameter on the console. This parameter specifies whether to detect climbing for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
fall_detection_sw	No	Integer	<p>Corresponds to the Fall Detection Switch parameter on the console. This parameter specifies whether to detect falling for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
wave_detection_sw	No	Integer	<p>Corresponds to the Wave Detection Switch parameter on the console. This parameter specifies whether to detect waving for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
bend_detection_sw	No	Integer	<p>Corresponds to the Bend Detection Switch parameter on the console. This parameter specifies whether to detect bending for input video streams. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-868 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-869 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-870 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-871 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an individual action detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-pose-action-recog-cloud/tasks
```

```
{
  "name": "pose-action-detection-task",
```

```
"description" : "pose-action detection task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxxx"
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "climb_detection_sw" : 1,
    "fall_detection_sw" : 0,
    "wave_detection_sw" : 0,
    "bend_detection_sw" : 0,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
    "image_compression_ratio" : 90
  }
}
}
```

- This request is used to create an individual action detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-pose-action-recog-cloud/tasks

```
{
  "name" : "pose-action-detection-task",
  "description" : "pose-action detection task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "climb_detection_sw" : 1,
      "fall_detection_sw" : 0,
      "wave_detection_sw" : 0,
      "bend_detection_sw" : 0,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
      "image_compression_ratio" : 90
    }
  }
}
```

- This request is used to create an individual action detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-pose-action-recog-cloud/tasks

```
{
  "name" : "pose-action-detection-task",
```

```

"description": "pose-action detection task test",
"input": {
  "type": "obs",
  "data": [ {
    "bucket": "obs_test_video",
    "path": "test.mp4",
    "index": 0
  } ]
},
"output": {
  "dis": {
    "stream_name": "dis-test"
  }
},
"service_version": "3.0",
"resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config": {
  "common": {
    "climb_detection_sw": 1,
    "fall_detection_sw": 0,
    "wave_detection_sw": 0,
    "bend_detection_sw": 0,
    "render_result_sw": 1,
    "render_roi_sw": 1,
    "target_roi": "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
    "image_compression_ratio": 90
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.12 Creating a Mask Detection (Cloud) Task

Function

This API is used to create a mask detection (cloud) task.

URI

POST /v2/{project_id}/services/c-wear-mask-recog-cloud/tasks

Table 4-872 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-873 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-874 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.

Parameter	Mandatory	Type	Description
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	WearMaskServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-875 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-876 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-877 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-878 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-879 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-880 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-881 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-882 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-883 WearMaskServiceConfig

Parameter	Mandatory	Type	Description
common	No	WearMaskCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-884 WearMaskCommon

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-885 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-886 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-887 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-888 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a mask detection (cloud) task., with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-wear-mask-recog-cloud/tasks

```
{
  "name": "wearmask-task",
  "description": "wearmask detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "render_result_sw": 1,

```

```

"render_roi_sw" : 1,
"target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
"image_compression_ratio" : 90
}
}
}

```

- This request is used to create a mask detection (cloud) task., with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-wear-mask-recog-cloud/tasks

```

{
  "name": "wearmask-task",
  "description": "wearmask detection task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
      "image_compression_ratio": 90
    }
  }
}
}

```

- This request is used to create a mask detection (cloud) task., with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-wear-mask-recog-cloud/tasks

```

{
  "name": "wearmask-task",
  "description": "wearmask detection task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
      "image_compression_ratio": 90
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.13 Creating an Abnormal Parking Detection (Cloud) Task

Function

This API is used to create an abnormal parking detection (cloud) task.

URI

POST /v2/{project_id}/services/c-traffic-abnormal-park-cloud/tasks

Table 4-889 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-890 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-891 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	AbnormalParkServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-892 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-893 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-894 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-895 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-896 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-897 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-898 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-899 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-900 AbnormalParkServiceConfig

Parameter	Mandatory	Type	Description
common	No	AbnormalParkCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-901 AbnormalParkCommon

Parameter	Mandatory	Type	Description
license_plate	No	LicensePlate object	License plate information.

Parameter	Mandatory	Type	Description
abnormal_park_threshold	No	Integer	<p>Parking time threshold, in seconds. If a vehicle is parked longer than this value, an abnormal parking alarm is reported. The value range is [20, 3600]. The maximum parking threshold can be 1 hour.</p> <p>Minimum: 20 Maximum: 3600 Default: 20</p>
abnormal_park_output_interval	No	Integer	<p>Interval for reporting the same abnormal parking alarm again, in seconds. The default value is 30. The value range is [30,86400]. The maximum interval is 24 hours. Note: The value is max (abnormal_park_threshold, abnormal_park_output_interval).</p> <p>Minimum: 30 Maximum: 86400 Default: 30</p>
output_image_sw	No	Integer	<p>Whether to output an image. Value 1 means to output an image, and 0 means the opposite. Other values are invalid. The default value is 1.</p> <p>Minimum: 0 Maximum: 1 Default: 1</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
event_disappear_alert_sw	No	Integer	<p>Corresponds to the Event Disappear Alert Switch parameter on the console. This parameter specifies whether to generate an alarm if a misparked vehicle moves. The options are as follows:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Image compression ratio. The value range is [20, 100] and the default value is 95. If the value is 80, the definition of the output image is 80% of that of the original image. A smaller value indicates a more blurred image and a smaller amount of image data to be received.</p> <p>Minimum: 20 Maximum: 100 Default: 95</p>

Parameter	Mandatory	Type	Description
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi.</p> <ul style="list-style-type: none"> • Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon"}]} • If this parameter is not specified, the detection area is the entire video frame.

Table 4-902 LicensePlate

Parameter	Mandatory	Type	Description
local_city	No	String	Default city abbreviation. The value ranges from A to Z. The default value is A .

Parameter	Mandatory	Type	Description
local_province	No	String	Default province abbreviation. Range set: (Jing, Jin, Ji, Meng, Jin, Hu, *Wan, Su, Zhe, Lu, Min, Gan, Yue, Gui, Qiong, Yu, E, Xiang, Hei, Ji, Liao, Shan, Gan, Ning, Qing, Xin, Yu, Chuan, Yun, Gui, Zang, Gang, Ao, Tai).

Response Parameters

Status code: 200

Table 4-903 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-904 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-905 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-906 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an abnormal parking detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-traffic-abnormal-park-cloud/tasks
{
  "name": "abnormalpark-task",
  "description": "abnormalpark detection task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[50,756],[50,756],[50,756],[100,616]],\"name\": \"a\"}, {\"data\": [[50,256],[50,756],[50,756],[100,116]],\"name\": \"b\"}]}",
      "license_plate": {
        "local_city": "B",
        "local_province": "Jin"
      },
      "abnormal_park_threshold": 180,
      "abnormal_park_output_interval": 180,
      "output_image_sw": 1,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "event_disappear_alert_sw": 0,
      "image_compression_ratio": 100
    }
  }
}
```

- This request is used to create an abnormal parking detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-traffic-abnormal-park-cloud/tasks

{
  "name": "abnormalpark-task",
  "description": "abnormalpark detection task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[50,756],[50,756],[50,756],[100,616]], \"name\": \"a\"}, {\"data\": [[50,256],[50,756],[50,756],[100,116]], \"name\": \"b\"}]}",
      "license_plate": {
        "local_city": "B",
        "local_province": "Jin"
      },
      "abnormal_park_threshold": 180,
      "abnormal_park_output_interval": 180,
      "output_image_sw": 1,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "event_disappear_alert_sw": 0,
      "image_compression_ratio": 100
    }
  }
}
```

- This request is used to create an abnormal parking detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-traffic-abnormal-park-cloud/tasks

{
  "name": "abnormalpark-task",
  "description": "abnormalpark detection task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\"polygons\": [{\"data\": [[50,756],[50,756],[50,756],[100,616]], \"name\": \"a\"}, {\"data\": [[50,256],[50,756],[50,756],[100,116]], \"name\": \"b\"}]}",
      "license_plate": {
        "local_city": "B",
        "local_province": "Jin"
      },
      "abnormal_park_threshold": 180,

```

```

    "abnormal_park_output_interval" : 180,
    "output_image_sw" : 1,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "event_disappear_alert_sw" : 0,
    "image_compression_ratio" : 100
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.14 Creating a Vehicle Detection (Cloud) Task

Function

This API is used to create a vehicle detection (cloud) task.

URI

POST /v2/{project_id}/services/c-vehicle-detection-cloud/tasks

Table 4-907 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-908 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-909 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	VehicleServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-910 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-911 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-912 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-913 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-914 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-915 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-916 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-917 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-918 VehicleServiceConfig

Parameter	Mandatory	Type	Description
common	No	VehicleCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-919 VehicleCommon

Parameter	Mandatory	Type	Description
license_plate	No	LicensePlate object	License plate information.

Parameter	Mandatory	Type	Description
output_vehicle_type	No	String	<p>Vehicle model information. Separate multiple vehicle models by spaces. If this parameter is left blank, all vehicle models are displayed by default. For example, 0 1 2 indicates that only information about vehicle models 0, 1, and 2 is output. Currently, the options are as follows:</p> <ul style="list-style-type: none"> ● 0: car ● 1: dump truck ● 2: trailer ● 3: cement mixer ● 4: sanitation vehicle ● 5: crane ● 6: pickup truck ● 7: bus ● 8: fuel tanker ● 9: others
output_image_sw	No	Integer	<p>Whether to output an image. Value 1 means to output an image, and 0 means the opposite. Other values are invalid. The default value is 1.</p> <p>Minimum: 0 Maximum: 1 Default: 1</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> ● 0: No border will be drawn. ● 1: A red border will be drawn. ● The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. If the value is 80, the definition of the output image is 80% of that of the original image. A smaller value indicates a more blurred image and a smaller amount of image data to be received.</p> <p>Minimum: 20 Maximum: 100 Default: 100</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter defines the vehicle detection area with a departure line and a parking line. You use type of the lines to distinguish a departure line from a parking line. The value 0 indicates the parking line, and the value 1 indicates the departure line. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi.</p> <ul style="list-style-type: none"> • By default, the parking line is below the departure line. When a vehicle is parking and touches the parking line, the detection result is reported. When the vehicle is departing and touches the departure line, the detection result is reported. • The parking line is horizontal by default and is drawn at the position where the height from the top of the ROI area accounts for 70% of the height of the ROI area. Assume that the image width is w, the height of the ROI area is h, and the Y coordinate of the top of the ROI area is y. The default position of the parking line is [[0,y+h*0.7-1],[w-1,y+h*0.7-1]]. • The departure line is horizontal by default and is drawn at the position where the distance between the departure line and the top of the image accounts for 50% of the image height. Assume that

Parameter	Mandatory	Type	Description
			<p>the image width is w, the height of the ROI area is h, and the Y coordinate of the top of the ROI area is y. The default position of the departure line is [[0,y+h0.5-1],[w-1,y+h0.5-1]].</p> <ul style="list-style-type: none"> • Example value: {"lines": [{"data": [[50,756], [100,616]], "properties": {"type": "0"}}, {"data": [[50,256], [100,116]], "properties": {"type": "1"}}, {"polygons": [{"data": [[487,465], [1850,450], [1905,1013], [515,1050]]}]}

Table 4-920 LicensePlate

Parameter	Mandatory	Type	Description
local_city	No	String	Default city abbreviation. The value ranges from A to Z. The default value is A .
local_province	No	String	Default province abbreviation. Range set: (Jing, Jin, Ji, Meng, Jin, Hu, *Wan, Su, Zhe, Lu, Min, Gan, Yue, Gui, Qiong, Yu, E, Xiang, Hei, Ji, Liao, Shan, Gan, Ning, Qing, Xin, Yu, Chuan, Yun, Gui, Zang, Gang, Ao, Tai).

Response Parameters

Status code: 200

Table 4-921 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-922 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-923 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-924 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a vehicle detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-vehicle-detection-cloud/tasks
```

```
{
  "name": "vehicle-task",
```

```

"description" : "vehicle detection task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxx"
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "target_roi" : "{\"lines\": [{\"data\": [[50,756],[100,616]], \"properties\": {\"type\": \"0\"}, {\"data\": [[50,256],[100,116]], \"properties\": {\"type\": \"1\"}}, \"polygons\": [{\"data\": [[487,465],[1850,450],[1905,1013],[515,1050]]}],",
    "license_plate" : {
      "local_city" : "B",
      "local_province" : "Jin"
    },
    "output_image_sw" : 1,
    "image_compression_ratio" : 100
  }
}
}

```

- This request is used to create a vehicle detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-vehicle-detection-cloud/tasks

```

{
  "name" : "vehicle-task",
  "description" : "vehicle detection task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "target_roi" : "{\"lines\": [{\"data\": [[50,756],[100,616]], \"properties\": {\"type\": \"0\"}, {\"data\": [[50,256],[100,116]], \"properties\": {\"type\": \"1\"}}, \"polygons\": [{\"data\": [[487,465],[1850,450],[1905,1013],[515,1050]]}],",
      "license_plate" : {
        "local_city" : "B",
        "local_province" : "Jin"
      },
      "output_image_sw" : 1,
      "image_compression_ratio" : 100
    }
  }
}
}

```

- This request is used to create a vehicle detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-vehicle-detection-cloud/tasks

```
{
  "name": "vehicle-task",
  "description": "vehicle detection task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "target_roi": "{\n\"lines\":[[\n\"data\":[[50,756],[100,616]],\n\"properties\":{\n\"type\":0},{\n\"data\":[[50,256],[100,116]],\n\"properties\":{\n\"type\":1}}],\n\"polygons\":[[\n\"data\":[[487,465],[1850,450],[1905,1013],[515,1050]]}}]",
      "license_plate": {
        "local_city": "B",
        "local_province": "Jin"
      },
      "output_image_sw": 1,
      "image_compression_ratio": 100
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.15 Creating a Fire Passage Obstruction Detection (Cloud) Task

Function

This API is used to create a fire passage obstruction detection (cloud) task.

URI

POST /v2/{project_id}/services/c-fire-exit-occupation-cloud/tasks

Table 4-925 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-926 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-927 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.

Parameter	Mandatory	Type	Description
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	FireExitServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-928 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-929 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-930 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-931 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-932 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-933 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-934 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-935 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-936 FireExitServiceConfig

Parameter	Mandatory	Type	Description
common	No	FireExitCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-937 FireExitCommon

Parameter	Mandatory	Type	Description
stacking_occupation_sw	No	Integer	Corresponds to the Stacking Occupation Switch parameter on the console. The options are as follows: <ul style="list-style-type: none"> ● 0: This function is disabled. ● 1: This function is enabled. ● The default value is 1. Minimum: 0 Maximum: 1 Default: 1

Parameter	Mandatory	Type	Description
vehicle_occupation_sw	No	Integer	<p>Corresponds to the Detect Vehicle on the console. Available values are as follows:</p> <ul style="list-style-type: none"> • 0: Detection at night is disabled. • 1: Detection at night is enabled. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
stacking_residence_time	No	Integer	<p>Corresponds to the Stacking Residence Time parameter on the console. This parameter specifies the maximum duration (in seconds) that stock can be kept on the roadside (when there are no obstacles). The value range is [10, 3600], and the default value is 40.</p> <p>Minimum: 10 Maximum: 3600 Default: 40</p>
vehicle_residence_time	No	Integer	<p>Corresponds to the Vehicle Residence Time parameter on the console. This parameter specifies the maximum period (in seconds) that a vehicle can stay (when there are no obstacles). The value range is [10, 3600], and the default value is 50.</p> <p>Minimum: 10 Maximum: 3600 Default: 50</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: The algae area will be rendered. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: The algae area will be rendered. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
event_disappear_alert_sw	No	Integer	<p>Corresponds to the Event Disappear Alert Switch parameter on the console. Options:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value range is [20, 100]. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies the detection area. The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi.</p> <ul style="list-style-type: none"> You can set a name for each region, for example, {"polygons":[{"data": [[84,389], [1840,349], [1824,526], and [78,526]], "name": "polygon"}]}. The region name will be displayed in the result. If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-938 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-939 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-940 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-941 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a fire passage obstruction detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-fire-exit-occupation-cloud/tasks
```

```
{
  "name": "fireexit-task",
```

```
"description": "fireexit task test",
"input": {
  "type": "video_source",
  "data": [ {
    "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxxx-xxxxxx"
  } ]
},
"output": {
  "dis": {
    "stream_name": "dis-test"
  }
},
"service_version": "3.0",
"resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config": {
  "common": {
    "event_disappear_alert_sw": 0,
    "image_compression_ratio": 90,
    "render_roi_sw": 1,
    "render_result_sw": 1,
    "stacking_occupation_sw": 1,
    "vehicle_occupation_sw": 1,
    "stacking_residence_time": 40,
    "vehicle_residence_time": 50,
    "target_roi": "{\"polygons\": [{\"data\": [[0, 0], [0, 1000], [1920, 1000], [1920, 0]]}]}"
  }
}
}
```

- This request is used to create a fire passage obstruction detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-fire-exit-occupation-cloud/tasks

```
{
  "name": "fireexit-task",
  "description": "fireexit task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "event_disappear_alert_sw": 0,
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "stacking_occupation_sw": 1,
      "vehicle_occupation_sw": 1,
      "stacking_residence_time": 40,
      "vehicle_residence_time": 50,
      "target_roi": "{\"polygons\": [{\"data\": [[0, 0], [0, 1000], [1920, 1000], [1920, 0]]}]}"
    }
  }
}
```

- This request is used to create a fire passage obstruction detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-fire-exit-occupation-cloud/tasks

```
{
  "name": "fireexit-task",
  "description": "fireexit task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "event_disappear_alert_sw": 0,
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "stacking_occupation_sw": 1,
      "vehicle_occupation_sw": 1,
      "stacking_residence_time": 40,
      "vehicle_residence_time": 50,
      "target_roi": "{\n\"polygons\": [{\n\"data\": [[0, 0], [0, 1000], [1920, 1000], [1920, 0]]}]"
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.16 Creating a Non-motorized Vehicle Detection (Cloud) Task

Function

This API is used to create a non-motorized vehicle detection (cloud) task.

URI

POST /v2/{project_id}/services/c-non-motor-detection-cloud/tasks

Table 4-942 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-943 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-944 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.

Parameter	Mandatory	Type	Description
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	NonMotorServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-945 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-946 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-947 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-948 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-949 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-950 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-951 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-952 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-953 NonMotorServiceConfig

Parameter	Mandatory	Type	Description
common	No	NonMotorCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-954 NonMotorCommon

Parameter	Mandatory	Type	Description
illegal_park_detection_sw	No	Integer	<p>Corresponds to the Illegal Park Detection Switch parameter on the console. This parameter specifies whether to enable parking violation detection. The value range is [0,1].</p> <ul style="list-style-type: none"> • 0: Parking violation detection is disabled. • 1: Parking violation detection is enabled. • Default value: 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
illegal_park_alert_threshold	No	Integer	<p>Corresponds to the Illegal Park Alert Threshold parameter on the console. This parameter specifies the time threshold for triggering an alarm. It takes effect only when illegal_park_detection_sw=1 is set. The unit is second. The value range is [10,3600]. If an electric vehicle stays longer than the specified time, an alarm is reported. The default value is 30.</p> <p>Minimum: 10 Maximum: 3600 Default: 30</p>
intrusion_detection_sw	No	Integer	<p>Corresponds to the Intrusion Detection Switch parameter on the console.</p> <ul style="list-style-type: none"> • 0: Intrusion events detection is disabled. • 1: Intrusion events detection is enabled. • Default value: 0 <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
electromobile_detect_sw	No	Integer	<p>Corresponds to the Electromobile Detect Switch parameter on the console.</p> <ul style="list-style-type: none"> • 0: Electric scooter detection is disabled. • 1: Electric scooter detection is enabled. • Default value: 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
bicycle_detect_sw	No	Integer	<p>Corresponds to Bicycle Detect Switch on the console.</p> <ul style="list-style-type: none"> • 0: Bicycle detection is disabled. • 1: Bicycle detection is enabled. • Default value: 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area in the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A parking area will be drawn in green, and a no parking area set by the user will be drawn in yellow. <p>• The default value is 0. Minimum: 0 Maximum: 1 Default: 0</p>
event_disappear_alert_sw	No	Integer	<p>Corresponds to the Event Disappear Alert Switch parameter on the console. Options:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. <p>• The default value is 0. Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value range is [20, 100]. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies an ROI that consists of parking area, no parking area, and no entry area.</p> <ul style="list-style-type: none"> • Parking area, which is identified by "name":"legal_area". If an electric scooter parks outside the parking area, a parking violation event is reported. • No parking area, which is identified by "name":"illegal_area". If an electric scooter parks in a no parking area, a parking violation event is reported. • No entry area, which is identified by "name":"prohibit_entering_area". If an electric scooter intrudes into this area, an intrusion event is reported. • The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. • Example value: {"polygons": [{"data": [[43,266], [42,645], [472,644], [416,212]], "name": "legal_area"}, {"data": [[311,182], [282,670], [941,661], [835,170]], "name": "prohibit_entering_area"}, {"data": [[1272,592], [1481,813], [1623,638], [1293,356]], "name": "illegal_area"}]}. If both legal_area and illegal_area are set, illegal_area will be used. In this case, only the no parking area is rendered.

Parameter	Mandatory	Type	Description
			<ul style="list-style-type: none"> If this parameter is left blank, the entire area is an no parking area by default, and the entire area is a no entry area.

Response Parameters

Status code: 200

Table 4-955 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-956 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-957 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-958 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a non-motorized vehicle detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-non-motor-detection-cloud/tasks

```
{
  "name": "nonmotor-task",
  "description": "nonmotor task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "event_disappear_alert_sw": 0,
      "illegal_park_detection_sw": 1,
      "illegal_park_alert_threshold": 30,
      "intrusion_detection_sw": 0,
      "electromobile_detect_sw": 1,
      "bicycle_detect_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[43,266],[42,645],[472,644],[416,212]],\"name\": \"legal_area\"}, {\"data\": [[311,182],[282,670],[941,661],[835,170]],\"name\": \"prohibit_entering_area\"}]]\",
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "image_compression_ratio": 90
    }
  }
}
```

- This request is used to create a non-motorized vehicle detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-non-motor-detection-cloud/tasks

```
{
  "name": "nonmotor-task",
```

```

"description" : "nonmotor task test",
"input" : {
  "type" : "url",
  "data" : [ {
    "url" : "https://obs_test/test.mp4",
    "index" : 0
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "event_disappear_alert_sw" : 0,
    "illegal_park_detection_sw" : 1,
    "illegal_park_alert_threshold" : 30,
    "intrusion_detection_sw" : 0,
    "electromobile_detect_sw" : 1,
    "bicycle_detect_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[43,266],[42,645],[472,644],[416,212]], \"name\": \"legal_area\"}, {\"data\": [[311,182],[282,670],[941,661],[835,170]], \"name\": \"prohibit_entering_area\"}]}\",
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "image_compression_ratio" : 90
  }
}
}

```

- This request is used to create a non-motorized vehicle detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-non-motor-detection-cloud/tasks

```

{
  "name" : "nonmotor-task",
  "description" : "nonmotor task test",
  "input" : {
    "type" : "obs",
    "data" : [ {
      "bucket" : "obs_test_video",
      "path" : "test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "event_disappear_alert_sw" : 0,
      "illegal_park_detection_sw" : 1,
      "illegal_park_alert_threshold" : 30,
      "intrusion_detection_sw" : 0,
      "electromobile_detect_sw" : 1,
      "bicycle_detect_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[43,266],[42,645],[472,644],[416,212]], \"name\": \"legal_area\"}, {\"data\": [[311,182],[282,670],[941,661],[835,170]], \"name\": \"prohibit_entering_area\"}]}\",
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "image_compression_ratio" : 90
    }
  }
}

```

```
}
}
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.17 Creating a Trash Can Anomaly Detection (Cloud) Task

Function

This API is used to create a trash can anomaly detection (cloud) task.

URI

POST /v2/{project_id}/services/c-trash-abnormal-detect-cloud/tasks

Table 4-959 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-960 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-961 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	TrashAbnormalServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-962 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-963 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-964 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-965 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-966 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-967 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-968 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-969 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-970 TrashAbnormalServiceConfig

Parameter	Mandatory	Type	Description
common	No	TrashAbnormalCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-971 TrashAbnormalCommon

Parameter	Mandatory	Type	Description
alert_time_threshold	No	Integer	Corresponds to the Alert Time Threshold on the console. An alarm is reported if a trash can status is abnormal for the duration specified by this parameter. Value range: [30, 3600] (in seconds) Default value: 30 Minimum: 30 Maximum: 3600 Default: 30

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies the area for trash can detection. If an abnormal status of a trash can in this area is detected, an alarm is triggered.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[43,266], [42,645], [472,644], [416,212]]}, {"data": [[311,182], [282,670], [941,661], [835,170]]}]} If this parameter is left blank, the entire area is the detection area by default.

Response Parameters

Status code: 200

Table 4-972 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-973 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-974 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-975 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a trash can anomaly detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-trash-abnormal-detect-cloud/tasks
```

```
{
  "name": "trashabnormal-task",
  "description": "trashabnormal task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "alert_time_threshold" : 30,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\":{\"data\":[[43,266],[42,645],[472,644],[416,212]]},{\"data\":[[311,182],[282,670],[941,661],[835,170]]}}",
    "image_compression_ratio" : 80
  }
}
```

- This request is used to create a trash can anomaly detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-trash-abnormal-detect-cloud/tasks

```
{
  "name" : "trashabnormal-task",
  "description" : "trashabnormal task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alert_time_threshold" : 30,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\":{\"data\":[[43,266],[42,645],[472,644],[416,212]]},{\"data\":[[311,182],[282,670],[941,661],[835,170]]}}",
      "image_compression_ratio" : 80
    }
  }
}
```

- This request is used to create a trash can anomaly detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-trash-abnormal-detect-cloud/tasks

```
{
  "name" : "trashabnormal-task",
  "description" : "trashabnormal task test",
  "input" : {
    "type" : "obs",
    "data" : [ {
      "bucket" : "obs_test_video",
      "path" : "test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
```

```

"common" : {
  "alert_time_threshold" : 30,
  "render_result_sw" : 1,
  "render_roi_sw" : 1,
  "target_roi" : "{ \"polygons\" : [ { \"data\" : [[43,266],[42,645],[472,644],[416,212]] ; { \"data\" : [[311,182],[282,670],[941,661],[835,170]] } } ] }",
  "image_compression_ratio" : 80
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.18 Creating a City Garbage Can Overflow Detection (Cloud) Task

Function

This API is used to create a city garbage can overflow detection (cloud) task.

URI

POST /v2/{project_id}/services/c-urban-trash-overflow-cloud/tasks

Table 4-976 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-977 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-978 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	UrbanTrashO verflowServic eConfig object	Job configuration parameters.

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-979 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-980 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-981 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-982 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-983 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-984 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-985 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-986 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-987 UrbanTrashOverflowServiceConfig

Parameter	Mandatory	Type	Description
common	No	UrbanTrashOverflowCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-988 UrbanTrashOverflowCommon

Parameter	Mandatory	Type	Description
alert_time_threshold	No	Integer	Corresponds to Alert Time Threshold on the console. An alarm is reported if a trash can status is abnormal for the duration specified by this parameter. Value range: [30, 3600] (in seconds) Default value: 30 Minimum: 30 Maximum: 3600 Default: 30

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console. This parameter specifies the area for garbage bin detection. If an abnormal status of a garbage bin in this area is detected, an alarm is triggered.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[43,266], [42,645], [472,644], [416,212]]}, {"data": [[311,182], [282,670], [941,661], [835,170]]}]} If this parameter is left blank, the entire area is the detection area by default.

Response Parameters

Status code: 200

Table 4-989 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-990 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-991 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-992 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a city garbage can overflow detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-trash-overflow-edge/tasks
```

```
{
  "name": "urban-trash-task",
  "description": "urban-trash task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "alert_time_threshold" : 30,
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "target_roi" : "{\"polygons\":{\"data\":[[43,266],[42,645],[472,644],[416,212]]},{\"data\":[[311,182],[282,670],[941,661],[835,170]]}}",
    "image_compression_ratio" : 80
  }
}
```

- This request is used to create a city garbage can overflow detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-trash-overflow-edge/tasks

```
{
  "name" : "urban-trash-task",
  "description" : "urban-trash task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "alert_time_threshold" : 30,
      "render_result_sw" : 1,
      "render_roi_sw" : 1,
      "target_roi" : "{\"polygons\":{\"data\":[[43,266],[42,645],[472,644],[416,212]]},{\"data\":[[311,182],[282,670],[941,661],[835,170]]}}",
      "image_compression_ratio" : 80
    }
  }
}
```

- This request is used to create a city garbage can overflow detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-trash-overflow-edge/tasks

```
{
  "name" : "urban-trash-task",
  "description" : "urban-trash task test",
  "input" : {
    "type" : "obs",
    "data" : [ {
      "bucket" : "obs_test_video",
      "path" : "test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
```

```

"common" : {
  "alert_time_threshold" : 30,
  "render_result_sw" : 1,
  "render_roi_sw" : 1,
  "target_roi" : "{ \"polygons\" : [ { \"data\" : [[43,266],[42,645],[472,644],[416,212]] ; { \"data\" : [[311,182],[282,670],[941,661],[835,170]] } } ] }",
  "image_compression_ratio" : 80
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.19 Creating a Peak Crowd Counting (Cloud) Task

Function

This API is used to create a peak crowd counting (cloud) task.

URI

POST /v2/{project_id}/services/c-highpoint-crowdcount-cloud/tasks

Table 4-993 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-994 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-995 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	HighpointCrowdcountServiceConfig object	Job configuration parameters.

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-996 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-997 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-998 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-999 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1000 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1001 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1002 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1003 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1004 HighpointCrowdcountServiceConfig

Parameter	Mandatory	Type	Description
common	No	HighpointCrowdcountCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1005 HighpointCrowdcountCommon

Parameter	Mandatory	Type	Description
alarm_threshold	No	String	<p>People count alarm thresholds. Default value: 50. The value must be a positive integer. When the number of people in a video frame exceeds the threshold, an alarm is triggered and an alarm image is output in JSON format.</p> <ul style="list-style-type: none"> • If the value of grid_x_number is greater than 0 and the value of grid_y_number is greater than 0, the grid ROI settings are enabled. If you enter more than one value, only the first value is used as the alarm threshold for all grid areas. For example, if you enter 25 36 23 40, the algorithm automatically selects the first value, that is, 25, as the alarm threshold. If the number of people in any grid exceeds this threshold, an alarm image is output. • If the value of grid_x_number or grid_y_number is 0, the classic ROI settings are enabled. You can enter different alarm thresholds for each ROI and separate them with spaces. If the alarm threshold list entered by the user is greater than the actual number of ROIs, the alarm threshold within the list is used. If the number of alarm thresholds within the list is less than the actual number of ROIs, use the default value for the rest part. For example, if there are three ROIs and three threshold values (25 30 20)

Parameter	Mandatory	Type	Description
			<p>are input, the image is sent as long as one ROI alarm is generated. When there are only two values (25 15) are entered, the threshold of the third ROI will be defaulted to 50. When there are more than three threshold values (such as 25 36 23 40) are entered, the first three values (25 36 23) are automatically selected.</p> <ul style="list-style-type: none"> Note: The value cannot be an empty string. Otherwise, Postman cannot deliver jobs.
sampling_time_interval	No	Integer	<p>Interval at which video sampling is performed. The default value is 5s. The value range is [5, 3600], seconds.</p> <p>Minimum: 5 Maximum: 3600 Default: 5</p>
alert_mode	No	String	<p>Alarming mode. Default value: single. There are two alarm modes:</p> <ul style="list-style-type: none"> single: event alarming. An alarm is reported only when a new alarm event is generated and the number of people reaches the alarm threshold. periodic: periodic alarming. An alarm is reported each time a video sampling interval expires.

Parameter	Mandatory	Type	Description
visualization_output_sw	No	Integer	<p>Whether to send the edited video image with scenario information on it. The default value is 0, and the value range is [0 1]. By default, when the number of people in each ROI exceeds the alarm threshold, only the structured information of the original image is sent. The detected pedestrians are displayed in video image after this function is enabled. The visualized alarm information on images for different scenarios is as follows:</p> <ul style="list-style-type: none"> • 1. If a pedestrian is detected, it is marked with a red box. • 1. Each ROI is marked with a yellow polygon in the image. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[43,266], [42,645], [472,644], [416,212]]}, {"data": [[311,182], [282,670], [941,661], [835,170]]}]} If this parameter is left blank, the entire area is the detection area by default.

Parameter	Mandatory	Type	Description
grid_x_number	No	Integer	<p>Corresponds to the Grid X Number parameter on the console. The default value is 0.</p> <ul style="list-style-type: none"> If the value of grid_y_number is 0, the value of this field is 0, indicating that the classic ROI settings are used, which is subject to target_roi. Values other than 0 indicates the number of grids in the horizontal direction, and each grid corresponds to an independent detection area. For example, if the value is 3, there are three grids in the horizontal direction corresponding to three independent detection areas. Assume that the width of an image is W, the width of grids in a rightmost column are equal to a difference between W and the number $(W//3)*2$ is rounded down to, and the width of grids in other columns are respectively the number $(W//3)$ is rounded down to. The width of each grid must be greater than 10 pixels, that is, the value range of the number of grids in a horizontal direction is $[0, \min(\text{the number } (W//10) \text{ is rounded down to, } 500)]$. <p>Default: 0</p>

Parameter	Mandatory	Type	Description
grid_y_number	No	Integer	<p>Corresponds to the Grid Y Number parameter on the console. The default value is 0.</p> <ul style="list-style-type: none"> If the value of grid_x_number is 0, the value of this field is 0, indicating that the classic ROI settings are used, which is subject to target_roi. Values other than 0 indicates the number of grids in the vertical direction, and each grid corresponds to an independent detection area. For example, if the value is 5, there are five grids in the vertical direction corresponding to five independent detection areas. Assume that the height of an image is H, and the height of a grid in a bottom row is equal to a difference between H and the number $(H/5)*4$ is rounded down to. The height of each grid must be greater than 10 pixels, that is, the value range of the number of grids in a vertical direction is $[0, \min(\text{the number } (H/10) \text{ is rounded down to, } 500)]$. <p>Default: 0</p>

Response Parameters

Status code: 200

Table 4-1006 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1007 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1008 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1009 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause

Parameter	Type	Description
advice	String	Suggestion

Example Requests

- This request is used to create a peak crowd counting (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-highpoint-crowdcount-cloud/tasks

```
{
  "name": "highpoint-crowdcount-task",
  "description": "highpoint-crowdcount task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alarm_threshold": "5",
      "sampling_time_interval": 8,
      "visualization_output_sw": 1,
      "image_compression_ratio": 80,
      "alert_mode": "single",
      "target_roi": "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
    }
  }
}
```

- This request is used to create a peak crowd counting (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-highpoint-crowdcount-cloud/tasks

```
{
  "name": "highpoint-crowdcount-task",
  "description": "highpoint-crowdcount task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alarm_threshold": "5",
      "sampling_time_interval": 8,
      "visualization_output_sw": 1,
      "image_compression_ratio": 80,
    }
  }
}
```

```
"alert_mode": "single",
"target_roi": "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
}
}
```

- This request is used to create a peak crowd counting (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-highpoint-crowdcount-cloud/tasks

```
{
  "name": "highpoint-crowdcount-task",
  "description": "highpoint-crowdcount task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alarm_threshold": "5",
      "sampling_time_interval": 8,
      "visualization_output_sw": 1,
      "image_compression_ratio": 80,
      "alert_mode": "single",
      "target_roi": "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}"
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.20 Creating a Target Attribute Recognition (Cloud) Task

Function

This API is used to create a target attribute recognition (cloud) task.

URI

POST /v2/{project_id}/services/c-object-attrib-recog-cloud/tasks

Table 4-1010 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1011 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1012 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500

Parameter	Mandatory	Type	Description
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	ObjectAttrRecogServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1013 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1014 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1015 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1016 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1017 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1018 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1019 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1020 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1021 ObjectAttriRecogServiceConfig

Parameter	Mandatory	Type	Description
common	No	ObjectAttriRecogCommon object	Runtime job configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1022 ObjectAttriRecogCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
pedes_attri_switch	No	String	<p>Corresponds to the Pedes Attri Switch parameter on the console. Pedestrian attributes you want the algorithm to output. The current algorithm supports the recognition of the following pedestrian attributes:</p> <ul style="list-style-type: none"> • gender: [male, female] • age: [juvenile, youth, middle age, old age] • hair - hairstyle: [short, long, bald] • glasses - Eyes: [with glasses, without glasses] • hat: [hat, helmet, neither] • mask-mask: [with a mask, without a mask] • backbag-backpack: [with a backpack, without a backpack] • handbag-handbag: [with a handbag, without a handbag] • single_shoulder_bag-one shoulder bag: [with a one shoulder bag, without a one shoulder bag] • upper_color-tops color: [black, white (including gray and silver), blue, green, yellow (including orange and gold), red (including pink and purple)] • upper_style-tops style: [short sleeves, long sleeves] • upper_texture-tops texture: [solid color, stripes, grids, patterns] • lower_color-bottoms color: [black, white (including gray and silver), blue, green, yellow (including orange and gold), red (including pink and purple)]

Parameter	Mandatory	Type	Description
			<ul style="list-style-type: none"> • lower_style-bottoms style: [shorts, trousers, short skirts, long skirts] • orientation-orientation: [front, back, left, right] • For example, if the value of pedes_attri_switch is gender,age, only the gender and age attributes of pedestrians are displayed in the output. • If this parameter is left blank, all attributes are displayed by default. If there is a space on both sides of the comma (,), the space will be ignored. If all attributes are incorrectly set, all attributes are displayed. If some attributes are correctly set, only the correct attributes are displayed. • Vehicle types can be identified, including bicycles, battery trucks, cars, dump trucks, trailers, cement mixers, buses, and others. The display of the vehicle type is not affected by this parameter.
alert_attri	No	AlertAttri object	<p>Corresponds to the AlertAttri parameter on the console.</p> <ul style="list-style-type: none"> • This parameter specifies alarm types and attributes. The algorithm generates alarms only of these types and attributes. • If this parameter is left blank, the algorithm reports alarms for all monitored objects by default. • Each monitored object information contains the result of the attributes specified by pedes_attri_switch.

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Table 4-1023 AlertAttri

Parameter	Mandatory	Type	Description
type	No	String	<p>Corresponds to the Type parameter on the console. Type of an alarm. The options are as follows: pedestrian, bicycle, electromobile, car, slag_car, trailer, concrete_mixer, bus, other_vehicle.</p> <ul style="list-style-type: none"> • The algorithm generates alarms of the specified type. • If there is a space on both sides of the comma (,), the space will be ignored. If all types are incorrectly set, all types of alarms are reported. If some types are correctly set, only alarms of the correct types are reported. • The default value is default, indicating that alarms of all types are reported.

Parameter	Mandatory	Type	Description
attribute	No	String	<ul style="list-style-type: none"> • Corresponds to Attribute on the console. • The algorithm checks the specified attributes of the monitored object. An alarm is reported only when the value of the attribute is within the specified range. • If this parameter is left blank, the algorithm does not check the attributes and directly reports alarms based on the alarm types. • Separate multiple attributes by commas (.). For example, if you want to generate alarms only for juveniles and youth, set this parameter to child,young. • For details about the value range, see the "attribute parameter description" in Detection Result. • If there is a space on both sides of the comma (,), the space will be ignored. If all attributes are incorrectly set, alarms are reported based on the alarm types. If some attributes are correctly set, only the alarms of correct attributes are reported.

Response Parameters

Status code: 200

Table 4-1024 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1025 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1026 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1027 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This API is used to create a target attribute recognition (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-object-attri-recog-cloud/tasks
{
  "name": "attri-task",
```

```
"description" : "attri task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxxx"
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\\\"}]}"
  }
}
}
```

- This API is used to create a target attribute recognition (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-object-attri-recog-cloud/tasks

```
{
  "name" : "attri-task",
  "description" : "attri task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\\\"}]}"
    }
  }
}
```

- This API is used to create a target attribute recognition (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-object-attri-recog-cloud/tasks

```
{
  "name" : "attri-task",
  "description" : "attri task test",
  "input" : {
    "type" : "obs",
    "data" : [ {
      "bucket" : "obs_test_video",
      "path" : "test.mp4",

```

```

    "index" : 0
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 84, 389 ], [ 1840, 349 ], [ 1824, 526 ], [ 78, 526 ] ], \"name\" : \"a
  ] } ] }"
  }
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.21 Creating an E-bike Rider Helmet Detection (Cloud) Task

Function

This API is used to create an e-bike rider helmet detection (cloud) task.

URI

POST /v2/{project_id}/services/c-helmet-elec-recog-cloud/tasks

Table 4-1028 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1029 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1030 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	HelmetElecR ecogServiceC onfig object	Job configuration parameters.

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1031 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1032 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1033 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1034 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1035 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1036 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1037 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1038 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1039 HelmetElecRecogServiceConfig

Parameter	Mandatory	Type	Description
common	No	HelmetElecRecogCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1040 HelmetElecRecogCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> • The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. • Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} • If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-1041 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1042 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1043 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1044 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information

Parameter	Type	Description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an e-bike rider helmet detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-helmet-elec-recog-cloud/tasks

```
{
  "name": "helmet-task",
  "description": "helmet task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}
```

- This request is used to create an e-bike rider helmet detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-helmet-elec-recog-cloud/tasks

```
{
  "name": "helmet-task",
  "description": "helmet task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
```



```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
  }
}
```

- This request is used to create an e-bike rider helmet detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-helmet-elec-recog-cloud/tasks

```
{
  "name": "helmet-task",
  "description": "helmet task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.22 Creating an Umbrella Violation Detection (Cloud) Task

Function

This API is used to create an umbrella violation detection (cloud) task.

URI

POST /v2/{project_id}/services/c-urban-umbrella-cloud/tasks

Table 4-1045 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1046 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1047 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).

Parameter	Mandatory	Type	Description
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	UmbrellaServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1048 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .

Parameter	Mandatory	Type	Description
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1049 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1050 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1051 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1052 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1053 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1054 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1055 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1056 UmbrellaServiceConfig

Parameter	Mandatory	Type	Description
common	No	UmbrellaCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1057 UmbrellaCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-1058 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1059 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1060 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1061 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an umbrella violation detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-umbrella-cloud/tasks
```

```
{
  "name": "umbrella-task",
  "description": "umbrella task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\\":{\\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
  }
}
```

- This request is used to create an umbrella violation detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-umbrella-cloud/tasks

```
{
  "name": "umbrella-task",
  "description": "umbrella task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi" : "{\\"polygons\\":{\\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
    }
  }
}
```

- This request is used to create an umbrella violation detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-umbrella-cloud/tasks

```
{
  "name": "umbrella-task",
  "description": "umbrella task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
```

```

"render_roi_sw" : 1,
"render_result_sw" : 1,
"target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\"]]}"
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.23 Creating an Advertisement Violation Detection (Cloud) Task

Function

This API is used to create an advertisement violation detection (cloud) task.

URI

POST /v2/{project_id}/services/c-urban-sign-detect-cloud/tasks

Table 4-1062 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1063 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1064 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	SignDetectServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1065 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1066 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> ● video_source ● obs (not recommended and will be discontinued) ● url (not recommended and will be discontinued) ● edgcamera (not recommended and will be discontinued) ● restful (not recommended and will be discontinued) ● vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1067 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1068 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1069 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1070 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1071 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1072 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1073 SignDetectServiceConfig

Parameter	Mandatory	Type	Description
common	No	SignDetectCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1074 SignDetectCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-1075 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1076 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1077 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1078 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an advertisement violation detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-sign-detect-cloud/tasks
```

```
{
  "name": "sign-detect-task",
  "description": "sign task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\":[{\"data\":[[84,389],[1840,349],[1824,526],[78,526]],\"name\":"a
\]]}"
  }
}
```

- This request is used to create an advertisement violation detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-sign-detect-cloud/tasks

```
{
  "name": "sign-detect-task",
  "description": "sign task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi" : "{\"polygons\":[{\"data\":[[84,389],[1840,349],[1824,526],[78,526]],\"name\":"a
\]]}"
    }
  }
}
```

- This request is used to create an advertisement violation detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-sign-detect-cloud/tasks

```
{
  "name": "sign-detect-task",
  "description": "sign task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
```

```

"render_roi_sw" : 1,
"render_result_sw" : 1,
"target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\"]]}"
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.24 Creating a Messy Piles Detection (Cloud) Task

Function

This API is used to create a messy piles detection (cloud) task.

URI

POST /v2/{project_id}/services/c-urban-stacking-cloud/tasks

Table 4-1079 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1080 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1081 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	StackingServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1082 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1083 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1084 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1085 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1086 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1087 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1088 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1089 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1090 StackingServiceConfig

Parameter	Mandatory	Type	Description
common	No	StackingCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1091 StackingCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-1092 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1093 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1094 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1095 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a messy piles detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-stacking-cloud/tasks
{
  "name": "stacking-detect-task",
  "description": "stacking task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\\":{\\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
  }
}
```

- This request is used to create a messy piles detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-stacking-cloud/tasks

```
{
  "name": "stacking-detect-task",
  "description": "stacking task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi" : "{\\"polygons\\":{\\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
    }
  }
}
```

- This request is used to create a messy piles detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-stacking-cloud/tasks

```
{
  "name": "stacking-detect-task",
  "description": "stacking task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
```

```
"render_roi_sw" : 1,
"render_result_sw" : 1,
"target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\"]]}"
}
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.25 Creating a Clothes Airing Violation Detection (Cloud) Task

Function

This API is used to create a clothes airing violation detection (cloud) task.

URI

POST /v2/{project_id}/services/c-urban-drying-cloud/tasks

Table 4-1096 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1097 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1098 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	DryingServiceConfig object	Job configuration parameters.
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1099 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1100 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1101 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1102 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1103 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1104 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1105 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1106 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1107 DryingServiceConfig

Parameter	Mandatory	Type	Description
common	No	DryingCommon object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1108 DryingCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-1109 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1110 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1111 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1112 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a clothes airing violation detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-drying-cloud/tasks
{
  "name": "drying-detect-task",
  "description": "drying task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```



```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
  }
}
```

- This request is used to create a clothes airing violation detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-drying-cloud/tasks

```
{
  "name": "drying-detect-task",
  "description": "drying task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
    }
  }
}
```

- This request is used to create a clothes airing violation detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-drying-cloud/tasks

```
{
  "name": "drying-detect-task",
  "description": "drying task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
```

```

"render_roi_sw" : 1,
"render_result_sw" : 1,
"target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\\\"}]}"
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.26 Creating a Littering Construction Waste Detection (Cloud) Task

Function

This API is used to create a littering construction waste detection (cloud) task.

URI

POST /v2/{project_id}/services/c-urban-dregs-cloud/tasks

Table 4-1113 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1114 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1115 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	DregsService Config object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template.

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1116 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1117 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> ● video_source ● obs (not recommended and will be discontinued) ● url (not recommended and will be discontinued) ● edgcamera (not recommended and will be discontinued) ● restful (not recommended and will be discontinued) ● vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1118 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1119 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1120 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1121 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1122 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1123 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1124 DregsServiceConfig

Parameter	Mandatory	Type	Description
common	No	DregsCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1125 DregsCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-1126 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1127 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1128 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1129 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a littering construction waste detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-dregs-cloud/tasks
{
  "name": "dregs-detect-task",
  "description": "dregs task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\}}}"
  }
}
```

- This request is used to create a littering construction waste detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-dregs-cloud/tasks

```
{
  "name": "dregs-detect-task",
  "description": "dregs task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\\}}}"
    }
  }
}
```

- This request is used to create a littering construction waste detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-dregs-cloud/tasks

```
{
  "name": "dregs-detect-task",
  "description": "dregs task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "image_compression_ratio": 90,

```

```
"render_roi_sw" : 1,
"render_result_sw" : 1,
"target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\"]]}"
}
}
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.27 Creating a Missing Manhole Cover Detection (Cloud) Task

Function

This API is used to create a missing manhole cover detection (cloud) task.

URI

POST /v2/{project_id}/services/c-urban-manholecover-miss-cloud/tasks

Table 4-1130 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1131 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1132 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	ManholecoverMissServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1133 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1134 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1135 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1136 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1137 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1138 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1139 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1140 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1141 ManholecoverMissServiceConfig

Parameter	Mandatory	Type	Description
common	No	ManholecoverMissCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1142 ManholecoverMissCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: Do not draw a border. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be displayed in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-1143 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1144 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1145 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1146 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a manhole cover detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-manholecover-miss-cloud/tasks
```

```
{
  "name": "manholecovermiss-detect-task",
  "description": "manholecovermiss task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\\":{\\\"data\\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\\":\\"a
\\}}}"
  }
}
```

- This request is used to create a manhole cover detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-manholecover-miss-cloud/tasks

```
{
  "name" : "manholecovermiss-detect-task",
  "description" : "manholecovermiss task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\\"polygons\\":{\\\"data\\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\\":\\"a
\\}}}"
    }
  }
}
```

- This request is used to create a manhole cover detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-manholecover-miss-cloud/tasks

```
{
  "name" : "manholecovermiss-detect-task",
  "description" : "manholecovermiss task test",
  "input" : {
    "type" : "obs",
    "data" : [ {
      "bucket" : "obs_test_video",
      "path" : "test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,

```

```
"render_roi_sw" : 1,  
"render_result_sw" : 1,  
"target_roi" : "{\\"polygons\\" : [ {\\"data\\" : [[84,389],[1840,349],[1824,526],[78,526]],\\"name\\" : \\"a  
\\"]}"  
}  
}
```

Example Responses

Status code: 200

Operation successful

```
{  
  "tasks" : [ {  
    "id" : "20690c67d71549c39085a3b28c18f24f"  
  } ]  
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.28 Creating a Dynamic Manhole Cover Detection (Cloud) Task

Function

This API is used to create a missing manhole cover detection from a dynamic perspective (cloud) task.

URI

POST /v2/{project_id}/services/c-mobile-manholecover-cloud/tasks

Table 4-1147 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1148 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1149 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	MobileManholecoverMissServiceConfig object	Job configuration parameters

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1150 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1151 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1152 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1153 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1154 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1155 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1156 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1157 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1158 MobileManholecoverMissServiceConfig

Parameter	Mandatory	Type	Description
common	No	MobileManholecoverMissCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1159 MobileManholecoverMissCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: Do not draw a border. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be displayed in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-1160 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1161 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1162 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1163 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a dynamic manhole cover detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-mobile-manholecover-cloud/tasks
```

```
{
  "name": "mobile-manholecovermiss-detect-task",
  "description": "manholecovermiss task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\\":{\\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
  }
}
```

- This request is used to create a dynamic manhole cover detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-mobile-manholecover-cloud/tasks

```
{
  "name" : "mobile-manholecovermiss-detect-task",
  "description" : "manholecovermiss task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\\"polygons\\":{\\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
    }
  }
}
```

- This request is used to create a dynamic manhole cover detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-mobile-manholecover-cloud/tasks

```
{
  "name" : "mobile-manholecovermiss-detect-task",
  "description" : "manholecovermiss task test",
  "input" : {
    "type" : "obs",
    "data" : [ {
      "bucket" : "obs_test_video",
      "path" : "test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,

```

```

"render_roi_sw" : 1,
"render_result_sw" : 1,
"target_roi" : "{ \"polygons\" : [ { \"data\" : [[84,389],[1840,349],[1824,526],[78,526]], \"name\" : \"a
\"]] }"
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.29 Creating an Urban Trash Detection (Cloud) Task

Function

This API is used to create an urban trash detection (cloud) task.

URI

POST /v2/{project_id}/services/c-urban-trash-detect-cloud/tasks

Table 4-1164 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1165 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1166 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	TrashDetectServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1167 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1168 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1169 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1170 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1171 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1172 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1173 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1174 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1175 TrashDetectServiceConfig

Parameter	Mandatory	Type	Description
common	No	TrashDetectCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1176 TrashDetectCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
trash_detect_sw	No	Integer	<p>Corresponds to the Trash Detection Switch parameter on the console.</p> <ul style="list-style-type: none"> • 1: Trash will be detected. • 2: Trash and the person who threw trash will be detected. • The default value is 1. <p>Minimum: 1 Maximum: 2 Default: 1</p>
person_constraint_sw	No	Integer	<p>Corresponds to the Person Constraint Switch parameter on the console. When this switch is on, alarms indicating that there are persons near the trash will be filtered out.</p> <ul style="list-style-type: none"> • 0: The switch is off. • 1: The switch is on. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
min_trash_size	No	Integer	<p>Corresponds to the Minimum Trash Size parameter on the console. Trash definition varies depending on the application scenario. If the trash size is smaller than the value of this parameter, no alarm is generated. The value ranges from 1 to 500. The unit is pixel. The default value is 1.</p> <p>Minimum: 1 Maximum: 500 Default: 1</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be displayed in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-1177 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1178 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1179 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1180 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an urban trash detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-trash-detect-cloud/tasks
```

```
{
  "name": "trash-detect-task",
  "description": "trash task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "trash_detect_sw" : 1,
    "person_constraint_sw" : 0,
    "min_trash_size" : 1,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\"]]}"
  }
}
```

- This request is used to create an urban trash detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-trash-detect-cloud/tasks

```
{
  "name": "trash-detect-task",
  "description": "trash task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common" : {
      "image_compression_ratio" : 90,
      "trash_detect_sw" : 1,
      "person_constraint_sw" : 0,
      "min_trash_size" : 1,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\"]]}"
    }
  }
}
```

- This request is used to create an urban trash detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-trash-detect-cloud/tasks

```
{
  "name": "trash-detect-task",
  "description": "trash task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  }
}
```

```

},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "trash_detect_sw" : 1,
    "person_constraint_sw" : 0,
    "min_trash_size" : 1,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\"]]}"
  }
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.30 Creating an Urban Mobile Trash Detection (Cloud) Task

Function

This API is used to create an urban mobile trash detection (cloud) task.

URI

POST /v2/{project_id}/services/c-mobile-trash-detect-cloud/tasks

Table 4-1181 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1182 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1183 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	MobileTrashServiceConfig object	Job configuration parameters

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1184 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1185 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1186 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1187 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1188 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1189 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./] [-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1190 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1191 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1192 MobileTrashServiceConfig

Parameter	Mandatory	Type	Description
common	No	MobileTrashCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1193 MobileTrashCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
min_trash_size	No	Integer	Corresponds to the Minimum Trash Size parameter on the console. Trash definition varies depending on the application scenario. If the trash size is smaller than the value of this parameter, no alarm is generated. The value ranges from 20 to 500. The unit is pixel. The default value is 20 . Minimum: 20 Maximum: 500 Default: 20
render_result_sw	No	Integer	Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows: <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. Minimum: 0 Maximum: 1 Default: 0

Response Parameters

Status code: 200

Table 4-1194 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1195 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1196 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1197 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an urban mobile trash detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-mobile-trash-detect-cloud/tasks
```

```
{
  "name": "mobile-trash-task",
```



```
"description" : "mobile-trash task test",
"input" : {
  "type" : "video_source",
  "data" : [ {
    "video_source_id" : "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "min_trash_size" : 1,
    "render_result_sw" : 1
  }
}
}
```

- This request is used to create an urban mobile trash detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-mobile-trash-detect-cloud/tasks

```
{
  "name" : "mobile-trash-task",
  "description" : "mobile-trash task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "min_trash_size" : 1,
      "render_result_sw" : 1
    }
  }
}
```

- This request is used to create an urban mobile trash detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-mobile-trash-detect-cloud/tasks

```
{
  "name" : "mobile-trash-task",
  "description" : "mobile-trash task test",
  "input" : {
    "type" : "obs",
    "data" : [ {
      "bucket" : "obs_test_video",
      "path" : "test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
```

```
"dis" : {
  "stream_name" : "dis-test"
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "min_trash_size" : 1,
    "render_result_sw" : 1
  }
}
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.31 Creating an Urban Roadside Stall Detection (Cloud) Task

Function

This API is used to create an urban roadside stall detection (cloud) task.

URI

POST /v2/{project_id}/services/c-urban-roadside-stall-cloud/tasks

Table 4-1198 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1199 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1200 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	RoadsideServiceConfig object	Job configuration parameters

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1201 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1202 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1203 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1204 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1205 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1206 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1207 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1208 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1209 RoadsideServiceConfig

Parameter	Mandatory	Type	Description
common	No	RoadsideCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1210 RoadsideCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
roadside_stall_detect_sw	No	Integer	<p>Corresponds to the Roadside Stall Detection Switch parameter on the console.</p> <ul style="list-style-type: none"> • 0: Roadside stall will not be detected. • 1: Roadside stall will be detected. • The default value is 1. <p>Minimum: 0 Maximum: 1 Default: 1</p>
outstore_stall_detect_sw	No	Integer	<p>Corresponds to the Outstore Stall Detection Switch parameter on the console.</p> <ul style="list-style-type: none"> • 0: Outstore stall will not be detected. • 1: Outstore stall will be detected. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
event_disappear_alert_sw	No	Integer	<p>Corresponds to the Event Disappear Alert Switch parameter on the console. Options:</p> <ul style="list-style-type: none"> • 0: disabled. • 1: enabled. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.
repeat_alert_sw	No	Integer	<p>Corresponds to the Repeated Alert Switch parameter on the console. This parameter specifies whether to generate repeated alarms for the same object. The options are as follows:</p> <ul style="list-style-type: none"> 0: No repeated alarms are generated for the same object. 1: Repeated alarms are generated for the same object. The default value is 0. When repeated alarms are enabled, the repeat_alert_interval parameter is valid only when the detection_id is the same for all the alarms generated for the same object. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
repeat_alert_interval	No	Integer	Corresponds to the Repeated Alert Interval parameter on the console. This parameter is valid only when repeat_alert_sw is set to 1 . This parameter specifies the interval between repeated alarms, in seconds. The value ranges from 30 to 86400. The default value is 30 , indicating that an alarm is generated every 30 seconds, and the detection_id of the alarms generated for the same object is the same. Minimum: 30 Maximum: 86400 Default: 30

Response Parameters

Status code: 200

Table 4-1211 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1212 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1213 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1214 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an urban roadside stall detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-roadside-stall-cloud/tasks

```
{
  "name": "roadside-task",
  "description": "roadside task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "event_disappear_alert_sw": 0,

```

```

        "image_compression_ratio" : 90,
        "roadside_stall_detect_sw" : 1,
        "outstore_stall_detect_sw" : 0,
        "render_roi_sw" : 1,
        "render_result_sw" : 1,
        "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 84, 389 ], [ 1840, 349 ], [ 1824, 526 ], [ 78, 526 ] ], \"name\" : \"a
    \"} ] }"
    }
}

```

- This request is used to create an urban roadside stall detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-roadside-stall-cloud/tasks

```

{
  "name" : "roadside-task",
  "description" : "roadside task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "event_disappear_alert_sw" : 0,
      "image_compression_ratio" : 90,
      "roadside_stall_detect_sw" : 1,
      "outstore_stall_detect_sw" : 0,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 84, 389 ], [ 1840, 349 ], [ 1824, 526 ], [ 78, 526 ] ], \"name\" : \"a
    \"} ] }"
    }
  }
}

```

- This request is used to create an urban roadside stall detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-roadside-stall-cloud/tasks

```

{
  "name" : "roadside-task",
  "description" : "roadside task test",
  "input" : {
    "type" : "obs",
    "data" : [ {
      "bucket" : "obs_test_video",
      "path" : "test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {

```

```

"common" : {
  "event_disappear_alert_sw" : 0,
  "image_compression_ratio" : 90,
  "roadside_stall_detect_sw" : 1,
  "outstore_stall_detect_sw" : 0,
  "render_roi_sw" : 1,
  "render_result_sw" : 1,
  "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]], \"name\": \"a
\"]]}"
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.32 Creating an Exposed Bare Soil Detection (Cloud) Task

Function

This API is used to create an exposed bare soil detection (cloud) task.

URI

POST /v2/{project_id}/services/c-urban-soil-exposure-cloud/tasks

Table 4-1215 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1216 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1217 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	SoilExposureServiceConfig object	Job configuration parameters

Parameter	Mandatory	Type	Description
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1218 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7

Parameter	Mandatory	Type	Description
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1219 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1220 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1221 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1222 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1223 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1224 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1225 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1226 SoilExposureServiceConfig

Parameter	Mandatory	Type	Description
common	No	SoilExposureCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1227 SoilExposureCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]], "name": "polygon" }]} You can set a name for each region. The region name will be contained in the result. If this parameter is not specified, the default area is the entire video frame, and the default area name is an empty string.

Response Parameters

Status code: 200

Table 4-1228 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1229 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1230 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1231 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create an exposed bare soil detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/c-urban-soil-exposure-edge/tasks
```

```
{
  "name": "soil-exposure-task",
  "description": "soil-exposure task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```



```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\\"polygons\\":{\\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
  }
}
```

- This request is used to create an exposed bare soil detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-soil-exposure-edge/tasks

```
{
  "name" : "soil-exposure-task",
  "description" : "soil-exposure task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\\"polygons\\":{\\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]],\\"name\\":\\"a
\\}}}"
    }
  }
}
```

- This request is used to create an exposed bare soil detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/c-urban-soil-exposure-edge/tasks

```
{
  "name" : "soil-exposure-task",
  "description" : "soil-exposure task test",
  "input" : {
    "type" : "obs",
    "data" : [ {
      "bucket" : "obs_test_video",
      "path" : "test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,

```

```

"render_roi_sw" : 1,
"render_result_sw" : 1,
"target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]],\"name\": \"a
\"]]}"
}
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.33 Creating a Vessel Intrusion Detection (Cloud) Task

Function

This API is used to create a vessel intrusion detection (cloud) task.

URI

POST /v2/{project_id}/services/ship-intrusion-cloud/tasks

Table 4-1232 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1233 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1234 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	ShipIntrusionServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1235 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1236 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> ● video_source ● obs (not recommended and will be discontinued) ● url (not recommended and will be discontinued) ● edgcamera (not recommended and will be discontinued) ● restful (not recommended and will be discontinued) ● vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1237 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1238 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1239 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1240 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1241 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1242 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1243 ShipIntrusionServiceConfig

Parameter	Mandatory	Type	Description
common	No	ShipIntrusion Common object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1244 ShipIntrusionCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	Yes	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame. By default, the line is horizontal and drawn at the position where the height is 50% of the image height. If the image width is w and the image height is h, the default position of the line is $[[1/4w, 1/2h], [3/4w, 1/2h]]$.

Response Parameters

Status code: 200

Table 4-1245 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1246 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1247 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1248 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a vessel intrusion detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/ship-intrusion-cloud/tasks
```

```
{
  "name": "ship-intrusion-task",
  "description": "ship-intrusion task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
}
```

```
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "image_compression_ratio" : 90,
    "render_roi_sw" : 1,
    "render_result_sw" : 1,
    "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
  }
}
}
```

- This request is used to create a vessel intrusion detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/ship-intrusion-cloud/tasks

```
{
  "name" : "ship-intrusion-task",
  "description" : "ship-intrusion task test",
  "input" : {
    "type" : "url",
    "data" : [ {
      "url" : "https://obs_test/test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
      "target_roi" : "{\"polygons\": [{\"data\": [[84,389],[1840,349],[1824,526],[78,526]]}]}"
    }
  }
}
```

- This request is used to create a vessel intrusion detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/ship-intrusion-cloud/tasks

```
{
  "name" : "ship-intrusion-task",
  "description" : "ship-intrusion task test",
  "input" : {
    "type" : "obs",
    "data" : [ {
      "bucket" : "obs_test_video",
      "path" : "test.mp4",
      "index" : 0
    } ]
  },
  "output" : {
    "dis" : {
      "stream_name" : "dis-test"
    }
  },
  "service_version" : "3.0",
  "resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config" : {
    "common" : {
      "image_compression_ratio" : 90,
      "render_roi_sw" : 1,
      "render_result_sw" : 1,
    }
  }
}
```

```
"target_roi" : "{ \"polygons\" : [ { \"data\" : [ [ 84, 389 ], [ 1840, 349 ], [ 1824, 526 ], [ 78, 526 ] ] ] } } }
```

Example Responses

Status code: 200

Operation successful

```
{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.34 Creating a Floating Debris Detection (Cloud) Task

Function

This API is used to create a floating debris detection (cloud) task.

URI

POST /v2/{project_id}/services/floating-cloud/tasks

Table 4-1249 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1250 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1251 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	FloatingServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1252 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1253 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1254 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1255 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1256 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1257 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1258 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1259 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1260 FloatingServiceConfig

Parameter	Mandatory	Type	Description
common	No	FloatingCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1261 FloatingCommon

Parameter	Mandatory	Type	Description
night_detection_sw	No	Integer	Whether to enable detection at night in the target area. The default value is 0 . The options are as follows: <ul style="list-style-type: none"> • 1: Detection at night is enabled. • 0: Detection at night is disabled. Minimum: 0 Maximum: 1 Default: 0

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-1262 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1263 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1264 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information

Parameter	Type	Description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1265 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a floating debris detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/floating-cloud/tasks

```
{
  "name": "floating-task",
  "description": "floating task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxxx-xxxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "night_detection_sw": 1,
      "image_compression_ratio": 90,
      "render_roi_sw": 1,

```

```

        "render_result_sw" : 1,
        "target_roi" : "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]]}]}"}
    }
}

```

- This request is used to create a floating debris detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/floating-cloud/tasks

```

{
  "name": "floating-task",
  "description": "floating task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "night_detection_sw": 1,
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]]}]}"}
    }
  }
}

```

- This request is used to create a floating debris detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/floating-cloud/tasks

```

{
  "name": "floating-task",
  "description": "floating task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "night_detection_sw": 1,
      "image_compression_ratio": 90,
      "render_roi_sw": 1,
      "render_result_sw": 1,
      "target_roi": "{\\"polygons\\":[{\\"data\\":[[84,389],[1840,349],[1824,526],[78,526]]}]}"}
    }
  }
}

```

```
}  
}
```

Example Responses

Status code: 200

Operation successful

```
{  
  "tasks": [ {  
    "id": "20690c67d71549c39085a3b28c18f24f"  
  } ]  
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.35 Creating a Drainage Outlet Monitoring (Cloud) Task

Function

This API is used to create a drainage outlet monitoring (cloud) task.

URI

POST /v2/{project_id}/services/drainage-recognition-cloud/tasks

Table 4-1266 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1267 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1268 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	DrainageServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template

Parameter	Mandatory	Type	Description
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9- _]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1269 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1270 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1271 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1272 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1273 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1274 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1275 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1276 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1277 DrainageServiceConfig

Parameter	Mandatory	Type	Description
common	No	DrainageCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1278 DrainageCommon

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90 , indicating that the image compression ratio is 90%. Minimum: 20 Maximum: 100 Default: 90

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw an alarm detection border on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A red border will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
alarm_repeat_send_interval	No	Integer	<p>Interval for reporting the drainage port status, in minutes. The value ranges from 1 to 360, and the default value is 5.</p> <p>Minimum: 1 Maximum: 360 Default: 5</p>
target_roi	Yes	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> • The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. • Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} • If this parameter is not specified, the automatic AI positioning for the drainage port is enabled by default. Automatic positioning and calibration of the drainage port ROI area are performed when a task is delivered and at 7:00 a.m. every day.

Response Parameters

Status code: 200

Table 4-1279 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1280 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1281 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1282 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details

Parameter	Type	Description
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This API is used to create a drainage outlet monitoring (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/drainage-recognition-cloud/tasks
```

```
{
  "name": "drainage-task",
  "description": "drainage task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "render_result_sw": 0,
      "alarm_repeat_send_interval": 5,
      "image_compression_ratio": 90,
      "target_roi": "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}"
    }
  }
}
```

- This API is used to create a drainage outlet monitoring (cloud) task, with the input type set to **url** and the output type set to **dis**.

```
POST /v2/{project_id}/services/drainage-recognition-cloud/tasks
```

```
{
  "name": "drainage-task",
  "description": "drainage task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
```

```

"common" : {
  "render_result_sw" : 0,
  "alarm_repeat_send_interval" : 5,
  "image_compression_ratio" : 90,
  "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}"
}
}
}

```

- This API is used to create a drainage outlet monitoring (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/drainage-recognition-cloud/tasks

```

{
  "name": "drainage-task",
  "description": "drainage task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "render_result_sw" : 0,
      "alarm_repeat_send_interval" : 5,
      "image_compression_ratio" : 90,
      "target_roi" : "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}"
    }
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks": [ {
    "id": "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.36 Creating a River Water Level Gauge Reading (Cloud) Task

Function

This API is used to create a river water level gauge reading (cloud) task.

URI

POST /v2/{project_id}/services/cali-water-ruler-river-cloud/tasks

Table 4-1283 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1284 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1285 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).

Parameter	Mandatory	Type	Description
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	Yes	TaskInput object	Input configuration of a job
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	WaterRulerServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1286 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .

Parameter	Mandatory	Type	Description
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1287 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhsmlhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1288 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1289 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1290 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1291 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1292 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1293 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1294 WaterRulerServiceConfig

Parameter	Mandatory	Type	Description
common	No	WaterRulerCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1295 WaterRulerCommon

Parameter	Mandatory	Type	Description
report_interval	Yes	Number	Report interval, in minutes. The value ranges from 0.1 to 360.0. The default value is 1.0 , indicating that data is reported every minute. Minimum: 0.1 Maximum: 360.0 Default: 1.0

Parameter	Mandatory	Type	Description
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>
calibration_info	Yes	String	<p>Corresponds to the Calibration Information parameter on the console. The value of this parameter is a JSON string. An escape character must be added in an API call. Example:</p> <ul style="list-style-type: none"> <pre> {"lines":[{"data": [[1000,159], [1033,156]],"properties": {"scale":"100"}},{ "data": [[1003,288], [1038,286]],"properties": {"scale":"75"}},{ "data": [[1010,571], [1044,567]],"properties": {"scale":"20"}}}] </pre> data indicates the two endpoints of the calibration line, and scale indicates the corresponding watermark (cm).

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} Ensure that the water ruler falls within the value of this parameter so that the water ruler can be read to generate correct alarms. When the video resolution changes, modify this parameter in the job configuration. If this parameter is unavailable or incorrectly set, the default value is used, that is, the entire video frame.
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to draw a detection result on the output image. The options are as follows:</p> <ul style="list-style-type: none"> 0: No border will be drawn. 1: The alarm result is drawn in red. The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Parameter	Mandatory	Type	Description
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_calibration_sw	No	Integer	<p>Corresponds to the Render Calibration Switch parameter on the console. This parameter indicates whether to draw the water gauge calibration information for the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No border will be drawn. • 1: The water gauge calibration information is drawn in green. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>

Response Parameters

Status code: 200

Table 4-1296 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1297 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1298 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1299 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This API is used to create a river water level gauge reading (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

```
POST /v2/{project_id}/services/cali-water-ruler-river-cloud/tasks
```

```
{
  "name": "water-ruler-task",
```

```
"description": "water-ruler task test",
"input": {
  "type": "video_source",
  "data": [ {
    "video_source_id": "xxxxxxxx-xxxxxxxx-xxxxxxxx-xxxxx-xxxxxx"
  } ]
},
"output": {
  "dis": {
    "stream_name": "dis-test"
  }
},
"service_version": "3.0",
"resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config": {
  "common": {
    "report_interval": 1,
    "image_compression_ratio": 90,
    "target_roi": "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
    "calibration_info": "{\"lines\": [{\"data\": [[460,741],[660,741]],\"scale\":110},{\"data\": [[460,420],[660,420]],\"scale\":71},{\"data\": [[460,190],[660,190]],\"scale\":22}]}",
    "render_result_sw": 1,
    "render_roi_sw": 1,
    "render_calibration_sw": 1
  }
}
}
```

- This API is used to create a river water level gauge reading (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/cali-water-ruler-river-cloud/tasks

```
{
  "name": "water-ruler-task",
  "description": "water-ruler task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "report_interval": 1,
      "image_compression_ratio": 90,
      "target_roi": "{\"polygons\": [{\"data\": [[0,0],[0,1080],[1920,1080],[1920,0]]}]}",
      "calibration_info": "{\"lines\": [{\"data\": [[460,741],[660,741]],\"scale\":110},{\"data\": [[460,420],[660,420]],\"scale\":71},{\"data\": [[460,190],[660,190]],\"scale\":22}]}",
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "render_calibration_sw": 1
    }
  }
}
```

- This API is used to create a river water level gauge reading (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/cali-water-ruler-river-cloud/tasks

```
{
  "name": "water-ruler-task",
```

```

"description" : "water-ruler task test",
"input" : {
  "type" : "obs",
  "data" : [ {
    "bucket" : "obs_test_video",
    "path" : "test.mp4",
    "index" : 0
  } ]
},
"output" : {
  "dis" : {
    "stream_name" : "dis-test"
  }
},
"service_version" : "3.0",
"resource_order_id" : "840a5cf90d4a4bbaa71f251dfe8fe64e",
"config" : {
  "common" : {
    "report_interval" : 1,
    "image_compression_ratio" : 90,
    "target_roi" : "{\\"polygons\\":{\\"data\\":[[0,0],[0,1080],[1920,1080],[1920,0]]}}",
    "calibration_info" : "{\\"lines\\":{\\"data\\":[[460,741],[660,741]],\\"scale\\":110};{\\"data\\":[[460,420],[660,420]],\\"scale\\":71};{\\"data\\":[[460,190],[660,190]],\\"scale\\":22}}",
    "render_result_sw" : 1,
    "render_roi_sw" : 1,
    "render_calibration_sw" : 1
  }
}
}

```

Example Responses

Status code: 200

Operation successful

```

{
  "tasks" : [ {
    "id" : "20690c67d71549c39085a3b28c18f24f"
  } ]
}

```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.2.37 Creating a Waterlogging Detection (Cloud) Task

Function

This API is used to create a waterlogging detection (cloud) task.

URI

POST /v2/{project_id}/services/w-ponding-detection-cloud/tasks

Table 4-1300 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .

Request Parameters

Table 4-1301 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Table 4-1302 Request body parameters

Parameter	Mandatory	Type	Description
name	Yes	String	Job name. It can contain up to 100 characters and can include uppercase and lowercase letters, digits, hyphens (-), and underscores (_).
description	No	String	Job description. It can contain up to 500 characters. Minimum: 0 Maximum: 500
schedule	No	TaskSchedule object	Task schedule. Only the weekly mode is supported.

Parameter	Mandatory	Type	Description
input	Yes	TaskInput object	Input configuration of a job object
output	Yes	TaskOutput object	Output configuration of a job. At least one output mode must be configured.
config	No	PondingServiceConfig object	Job configuration parameters
service_version	Yes	String	Service version. The value must match the regular expression <code>^[a-z0-9]{3,32}\$</code> . Minimum: 3 Maximum: 32
is_saved_as_template	No	Boolean	Whether to save the job configuration as a template
resource_order_id	No	String	Resource order ID, which corresponds to the associated algorithm. This parameter is only mandatory for commercial algorithms and must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> . Minimum: 4 Maximum: 36

Table 4-1303 TaskSchedule

Parameter	Mandatory	Type	Description
type	Yes	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	Yes	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.

Parameter	Mandatory	Type	Description
days_of_week	No	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	No	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	No	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1304 TaskInput

Parameter	Mandatory	Type	Description
type	Yes	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> • video_source • obs (not recommended and will be discontinued) • url (not recommended and will be discontinued) • edgcamera (not recommended and will be discontinued) • restful (not recommended and will be discontinued) • vcn (not recommended and will be discontinued)

Parameter	Mandatory	Type	Description
data	Yes	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> • If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 • If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 • If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } • If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkiushdgdksjhslnhscjsckjhdbnk, stream_type: 1, index: 0 • If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	No	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1305 TaskInputData

Parameter	Mandatory	Type	Description
video_source_id	No	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	No	String	Name of a video stream.
bucket	No	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63
path	No	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	No	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	No	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	No	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .

Parameter	Mandatory	Type	Description
rtsp_path_in_response	No	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	No	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	No	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	No	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1306 TaskInputVcn

Parameter	Mandatory	Type	Description
ip	Yes	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Yes	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535

Parameter	Mandatory	Type	Description
username	Yes	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	Yes	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1307 TaskOutput

Parameter	Mandatory	Type	Description
obs	No	TaskOutputObs object	Configuration information when the output type is obs .
dis	No	TaskOutputDis object	Configuration information when the output type is dis .
webhook	No	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	No	Boolean	Whether to send alarms to the event center. This parameter is valid for cloud jobs. Default: false

Table 4-1308 TaskOutputObs

Parameter	Mandatory	Type	Description
bucket	Yes	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./][-./])([a-z0-9-]{1,61})[a-z0-9]\$") . Maximum: 63

Parameter	Mandatory	Type	Description
path	Yes	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!./.)([\^:*?"<>]{0,1023})(?<![\s])\$</code> . Maximum: 1023
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1309 TaskOutputDis

Parameter	Mandatory	Type	Description
stream_name	Yes	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1310 TaskOutputWebhook

Parameter	Mandatory	Type	Description
url	Yes	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000

Parameter	Mandatory	Type	Description
headers	Yes	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	No	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1311 PongdingServiceConfig

Parameter	Mandatory	Type	Description
common	No	PongdingCommon object	Custom configuration items specified during job running. The items are in JSON format and defined by the service publisher. For details about the configuration items, see the description of the corresponding algorithm service.

Table 4-1312 PongdingCommon

Parameter	Mandatory	Type	Description
alert_mode	No	String	<p>Corresponds to the Alert Mode parameter on the console. This parameter specifies the detection alarm mode. Two modes are available:</p> <ul style="list-style-type: none"> • single: one-off alarm mode. When a specific event occurs, an alarm is generated and the event information is reported. • periodic: periodic alarm mode. All status information is reported at a specified detection interval. • The default value is single.
alert_detection_interval	No	Integer	<p>Corresponds to the Detection Interval parameter on the console. This parameter specifies the detection interval in seconds. The value ranges from 10 to 86400.</p> <ul style="list-style-type: none"> • This parameter is valid only when alert_mode is set to periodic. <p>Minimum: 10 Maximum: 86400 Default: 60</p>
ponding_area_ratio_thres	No	Number	<p>Corresponds to the Ponding Area Ratio Threshold parameter on the console. When the ratio of the ponding area to the image area exceeds the threshold, an alarm is triggered and an alarm image is output in JSON format.</p> <p>Minimum: 0 Maximum: 1 Default: 0.1</p>

Parameter	Mandatory	Type	Description
render_result_sw	No	Integer	<p>Corresponds to the Render Result Switch parameter on the console. This parameter specifies whether to render the ponding area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: The ponding area will not be rendered. • 1: The ponding area will be rendered in red. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
render_roi_sw	No	Integer	<p>Corresponds to the Render ROI Switch parameter on the console. This parameter specifies whether to draw a detection area on the output image. The options are as follows:</p> <ul style="list-style-type: none"> • 0: No detection area will be drawn. • 1: A detection area in yellow will be drawn. • The default value is 0. <p>Minimum: 0 Maximum: 1 Default: 0</p>
image_compression_ratio	No	Integer	<p>Corresponds to the Image Compression Ratio parameter on the console. The value ranges from 20 to 100. The default value is 90, indicating that the image compression ratio is 90%.</p> <p>Minimum: 20 Maximum: 100 Default: 90</p>

Parameter	Mandatory	Type	Description
target_roi	No	String	<p>Corresponds to the Target ROI parameter on the console.</p> <ul style="list-style-type: none"> The value of this parameter is a JSON string. An escape character must be added in an API call. For details about the JSON format, see Setting target_roi. Example: {"polygons": [{"data": [[84,389], [1840,349],[1824,526], [78,526]]}]} If this parameter is not specified, the detection area is the entire video frame.

Response Parameters

Status code: 200

Table 4-1313 Response body parameters

Parameter	Type	Description
tasks	Array of TaskResponse objects	ID list of tasks created in VIAS

Table 4-1314 TaskResponse

Parameter	Type	Description
id	String	ID of a task created in VIAS

Status code: 400

Table 4-1315 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information

Parameter	Type	Description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1316 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

- This request is used to create a waterlogging detection (cloud) task, with the input type set to **video_source** and the output type set to **dis**.

POST /v2/{project_id}/services/w-ponding-detection-cloud/tasks

```
{
  "name": "ponding-task",
  "description": "ponding task test",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxxx-xxxxxx-xxxxxx-xxxx-xxxxx"
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alert_mode": "single",
      "alert_detection_interval": 60,
      "ponding_area_ratio_thres": 0.1,

```

```

"render_result_sw" : 1,
"render_roi_sw" : 1,
"target_roi" : "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}",
"image_compression_ratio" : 80
}
}
}

```

- This request is used to create a waterlogging detection (cloud) task, with the input type set to **url** and the output type set to **dis**.

POST /v2/{project_id}/services/w-ponding-detection-cloud/tasks

```

{
  "name": "ponding-task",
  "description": "ponding task test",
  "input": {
    "type": "url",
    "data": [ {
      "url": "https://obs_test/test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alert_mode": "single",
      "alert_detection_interval": 60,
      "ponding_area_ratio_thres": 0.1,
      "render_result_sw": 1,
      "render_roi_sw": 1,
      "target_roi": "{\"polygons\": [{\"data\": [[100,100],[1800,100],[1800,1000],[100,1000]]}]}",
      "image_compression_ratio": 80
    }
  }
}

```

- This request is used to create a waterlogging detection (cloud) task, with the input type set to **obs** and the output type set to **dis**.

POST /v2/{project_id}/services/w-ponding-detection-cloud/tasks

```

{
  "name": "ponding-task",
  "description": "ponding task test",
  "input": {
    "type": "obs",
    "data": [ {
      "bucket": "obs_test_video",
      "path": "test.mp4",
      "index": 0
    } ]
  },
  "output": {
    "dis": {
      "stream_name": "dis-test"
    }
  },
  "service_version": "3.0",
  "resource_order_id": "840a5cf90d4a4bbaa71f251dfe8fe64e",
  "config": {
    "common": {
      "alert_mode": "single",
      "alert_detection_interval": 60,
      "ponding_area_ratio_thres": 0.1,

```

```
"render_result_sw" : 1,  
"render_roi_sw" : 1,  
"target_roi" : "{\\"polygons\\":{\\"data\\":[[100,100],[1800,100],[1800,1000],[100,1000]]}}",  
"image_compression_ratio" : 80  
}  
}
```

Example Responses

Status code: 200

Operation successful

```
{  
  "tasks" : [ {  
    "id" : "20690c67d71549c39085a3b28c18f24f"  
  } ]  
}
```

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.3 Public APIs

4.3.1 Deleting a Task

Function

This API is used to delete tasks.

URI

DELETE /v2/{project_id}/tasks/{task_id}

Table 4-1317 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .
task_id	Yes	String	Task ID

Request Parameters

Table 4-1318 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 400

Table 4-1319 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1320 Response body parameters

Parameter	Type	Description
error_code	String	Error code

Parameter	Type	Description
error_msg	String	Error description
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to delete the task whose ID is *{task_id}*.

```
/v2/{project_id}/tasks/{task_id}
https://{endpoint}/v2/{project_id}/tasks/{task_id}?
```

Example Responses

None

Status Codes

Status Code	Description
200	Operation successful
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.3.2 Obtaining Task Details

Function

This API is used to obtain task details.

URI

```
GET /v2/{project_id}/tasks/{task_id}
```

Table 4-1321 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID and name, see Obtaining the Project ID and Name .
task_id	Yes	String	Task ID

Request Parameters

Table 4-1322 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 4-1323 Response body parameters

Parameter	Type	Description
id	String	Job ID
name	String	Job name
creator	String	Username of the job creator
project_id	String	Project ID of the job creator
description	String	Job description Minimum: 0 Maximum: 500
release_id	String	ID of the service corresponding to a job
service_id	String	ID of the service corresponding to a task
created_at	String	Job creation time
updated_at	String	Time when the latest job status was updated

Parameter	Type	Description
state	String	Task status. The value can be PENDING , RECOVERING , STARTING , UPGRADING , CREATE_FAILED , START_FAILED , RUNNING , STOPPING , STOPPED , ABNORMAL , SUCCEEDED , FAILED , DELETING , FREEZING , or FROZEN .
status	String	Details about a job status (for some statuses only) Minimum: 0 Maximum: 4096
error	error object	Error information
schedule_status	String	Status of a scheduled task. The value can be ACTIVATED or INACTIVATED .
schedule	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	TaskInput object	Input configuration of a job
output	TaskOutputF orDisplay object	Output configuration of a job
config	TaskServiceC onfig object	Job runtime parameters customized by the service publisher
video_source_name	String	Video source name
title	String	Algorithm name
group_name	String	Group name. Multiple values are separated by commas (,).
company	String	Vendor name
task_config	String	Job algorithm configuration
type	String	Cloud or edge
resource_order_id	String	Resource order ID
package_id	String	Algorithm package ID
device_id	String	Device ID
access_addresses	String	Access address

Parameter	Type	Description
algorithm_publish_id	String	Algorithm ID

Table 4-1324 error

Parameter	Type	Description
code	String	Error code Minimum: 8 Maximum: 36
message	String	Error description Minimum: 2 Maximum: 512

Table 4-1325 TaskSchedule

Parameter	Type	Description
type	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1326 TaskInput

Parameter	Type	Description
type	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> ● video_source ● obs (not recommended and will be discontinued) ● url (not recommended and will be discontinued) ● edgcamera (not recommended and will be discontinued) ● restful (not recommended and will be discontinued) ● vcn (not recommended and will be discontinued)

Parameter	Type	Description
data	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkioushdgksj hslmhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdfac-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1327 TaskInputData

Parameter	Type	Description
video_source_id	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	String	Name of a video stream.
bucket	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63

Parameter	Type	Description
path	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .
rtsp_path_in_response	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1328 TaskInputVcn

Parameter	Type	Description
ip	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535
username	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1329 TaskOutputForDisplay

Parameter	Type	Description
obs	TaskOutputObs object	Configuration information when the output type is obs .
dis	TaskOutputDis object	Configuration information when the output type is dis .
webhook	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	Boolean	Default: false

Table 4-1330 TaskOutputObs

Parameter	Type	Description
bucket	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./-./])([a-z0-9-]{1,61})[a-z0-9]\$ "). Maximum: 63

Parameter	Type	Description
path	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!\\.)([^\s?*<>"]{0,1023})?<![\s])\$</code> . Maximum: 1023
data_category	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1331 TaskOutputDis

Parameter	Type	Description
stream_name	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1332 TaskOutputWebhook

Parameter	Type	Description
url	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000
headers	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1333 TaskServiceConfig

Parameter	Type	Description
common	Object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Status code: 400

Table 4-1334 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1335 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to obtain task details including the task name, input mode, and output mode.

```
GET /v2/{project_id}/tasks/{task_id}
https://{endpoint}/v2/{project_id}/tasks/{task_id}
```

Example Responses

Status code: 200

Task details

```
{
  "id": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "name": "qqqq_task",
  "creator": "test",
  "project_id": "xxxxxxxxxxxxxxxxxxxxxxxx",
  "release_id": "xxxxxx-xxxxxx-xxxxxx-xxxx-xxxx",
  "service_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxx-xxxx",
  "created_at": "2023-06-06T06:59:33.024Z",
  "updated_at": "2023-06-06T06:59:33.024Z",
  "event_type": 0,
  "priority": "low",
  "steal": 0,
  "state": "PENDING",
  "input": {
    "type": "video_source",
    "data": [ {
      "video_source_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxx-xxxx"
    } ]
  },
  "output": {
    "event_center": true
  },
  "config": {
    "common": { }
  },
  "video_source_name": "url_test",
  "task_config": "<?xml version='1.0' encoding='UTF-8'?><algorithm><config><common><param
titleCn='platform' name='platform' required='false' titleEn='platform' type='Object'><param
titleCn='project_id' name='project_id' required='false' titleEn='project_id' type='String'><param
titleCn='domain_name' name='domain_name' required='false' titleEn='domain_name' type=
'String'><param titleCn='agency_name' name='agency_name' required='false' titleEn=
'agency_name' type='String'><param titleCn='domain_id' name='domain_id' required='false'
titleEn='domain_id' type='String'><param titleCn='task_id' name='task_id' required='false'
titleEn='task_id' type='String'></param></common></config></algorithm>",
  "type": "0",
  "package_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxx-xxxx"
}
```

Status Codes

Status Code	Description
200	Task details
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

4.3.3 This API is used to obtain tasks.

Function

Obtaining Tasks

URI

GET /v2/{project_id}/tasks

Table 4-1336 Path Parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining a Project ID and Name .

Table 4-1337 Query Parameters

Parameter	Mandatory	Type	Description
source_data_type	No	String	Task type, which is used for filtering. Only async_task and sync_task are supported.
title	No	String	Algorithm name, which must match the regular expression $^{\wedge}[a-zA-Z0-9\ \u4e00-\u9fa5-_{,}]{2,64}\$$.
camera_name	No	String	Camera name Maximum: 255
task_state	No	String	Task status. Options: PENDING, RECOVERING, STARTING, UPGRADING, CREATE_FAILED, START_FAILED, RUNNING, STOPPING, STOPPED, ABNORMAL, SUCCEEDED, FAILED, DELETING, FREEZING, FROZEN, SCHEDULING, and LACK_OF_RESOURCES.
task_name	No	String	Task name Maximum: 1024

Parameter	Mandatory	Type	Description
page_size	No	Integer	Number of records displayed on each page Minimum: 5 Maximum: 1000 Default: 10
page	No	Integer	Offset Default: 1
sort_dir	No	String	Sorting rule for displaying service tasks Default: desc
batch_id	No	String	Batch configuration ID, which must match the regular expression <code>^[a-z0-9-]{4,36}\$</code> .
video_group_id	No	String	Video group ID. Multiple IDs are separated by commas (.). The value length must be [4,2048].
company	No	String	Vendor name. Multiple values are separated by commas (.).
alg_id	No	String	Algorithm ID, which must match the regular expression <code>^[0-9a-f]{8}-[0-9a-f]{4}-[4][0-9a-f]{3}-[89ab][0-9a-f]{3}-[0-9a-f]{12}\$</code> .

Request Parameters

Table 4-1338 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. For details about how to obtain a user token, see Authentication .

Response Parameters

Status code: 200

Table 4-1339 Response body parameters

Parameter	Type	Description
count	Integer	Number of records displayed on the current page
tasks	Array of TaskInfoDto objects	Obtained tasks
page	Integer	Current page number
page_size	Integer	Maximum number of records displayed on a page

Table 4-1340 TaskInfoDto

Parameter	Type	Description
id	String	Job ID
name	String	Job name
creator	String	Username of the job creator
project_id	String	Project ID of the job creator
description	String	Job description Minimum: 0 Maximum: 500
release_id	String	ID of the service corresponding to a job
service_id	String	ID of the service corresponding to a task
created_at	String	Job creation time
updated_at	String	Time when the latest job status was updated
state	String	Task status. The value can be PENDING, RECOVERING, STARTING, UPGRADING, CREATE_FAILED, START_FAILED, RUNNING, STOPPING, STOPPED, ABNORMAL, SUCCEEDED, FAILED, DELETING, FREEZING, or FROZEN .
status	String	Details about a job status (for some statuses only) Minimum: 0 Maximum: 4096
error	error object	Error information

Parameter	Type	Description
schedule_status	String	Status of a scheduled task. The value can be ACTIVATED or INACTIVATED .
schedule	TaskSchedule object	Task schedule. Only the weekly mode is supported.
input	TaskInput object	Input configuration of a job
output	TaskOutputF orDisplay object	Output configuration of a job
config	TaskServiceC onfig object	Job runtime parameters customized by the service publisher
video_source_name	String	Video source name
title	String	Algorithm name
group_name	String	Group name. Multiple values are separated by commas (,).
company	String	Vendor name
task_config	String	Job algorithm configuration
type	String	Cloud or edge
resource_order_id	String	Resource order ID
package_id	String	Algorithm package ID
device_id	String	Device ID
access_addresses	String	Access address
algorithm_publisher_id	String	Algorithm ID

Table 4-1341 error

Parameter	Type	Description
code	String	Error code Minimum: 8 Maximum: 36

Parameter	Type	Description
message	String	Error description Minimum: 2 Maximum: 512

Table 4-1342 TaskSchedule

Parameter	Type	Description
type	String	Type of a scheduled task. This parameter is mandatory for scheduled tasks. The options are weekly and monthly .
timezone	String	Time zone where a user is located. This parameter is mandatory for scheduled jobs. The value is accurate to the minute.
days_of_week	Array of integers	Days in a week when a task is executed. This parameter is mandatory only for weekly tasks. The values 1 to 7 indicate Monday to Sunday respectively. Minimum: 1 Maximum: 7 Array Length: 1 - 7
days_of_month	Array of integers	Days in a month when a task is executed. This parameter is mandatory only for monthly tasks. The values 1 to 31 indicate the first day to the 31st day of a month. Minimum: 1 Maximum: 31
periods	Array<Array<>>	Time segment configuration. Select at least one time segment for executing a weekly or monthly job.

Table 4-1343 TaskInput

Parameter	Type	Description
type	String	<p>Task input type, which is mandatory when you create a task. The video_source type cannot be changed to other types. The following types are supported: obs (files stored in OBS, supported only by cloud tasks), url (specified file URL or stream request URL, supported only by cloud tasks), edgcamera (edge camera bound to IEF, supported only by edge tasks), restful (stream request URL obtained from a user-specified streaming server through a RESTful API, supported by both cloud and edge tasks), vcn (VCN device, supported only by edge tasks), and video_source (video sources managed in VIAS, supported by both cloud and edge tasks). You are advised to use the video_source type. Other types will be discontinued in the future. Options:</p> <ul style="list-style-type: none"> ● video_source ● obs (not recommended and will be discontinued) ● url (not recommended and will be discontinued) ● edgcamera (not recommended and will be discontinued) ● restful (not recommended and will be discontinued) ● vcn (not recommended and will be discontinued)

Parameter	Type	Description
data	Array of TaskInputData objects	<p>Input details of a task, which is mandatory. The configuration varies according to the input type. Multiple inputs are allowed during creation, but only one input is allowed for update.</p> <ul style="list-style-type: none"> If the input type is obs, you must configure bucket, path, and index. Example: bucket: aicam, path: 3rdpartylicenses.txt, index: 0 If the input type is url, you must configure url and index. Example: url: https://xxx-xxx.com, index: 0 If the input type is restful, you must configure certificate_check, rtsp_path_in_response, url, index, and headers. Example: certificate_check: true, url: https://hsaij-dasahbi.com, rtsp_path_in_response: data/url, index: 0, headers: { AAA: AAA } If the input type is vcn, you must configure device_id, stream_type, and index. Example: device_id: 21356478954612546874#gdhjkioushdgksj hslmhscjsckjhdbnk, stream_type: 1, index: 0 If the input type is EdgeCamera, you must configure id and index. Example: id: 007cdafc-6000-47ce-b0e3-870b4a0db65e, index: 0. <p>Array Length: 1 - 50</p>
vcn	TaskInputVcn object	VCN server information. This parameter is mandatory only when the input type is vcn .

Table 4-1344 TaskInputData

Parameter	Type	Description
video_source_id	String	Video source ID. This parameter is mandatory when the input type is video_source .
stream_name	String	Name of a video stream.
bucket	String	OBS bucket name. This parameter is mandatory when the input type is obs . Maximum: 63

Parameter	Type	Description
path	String	OBS path. This parameter is mandatory when the input type is obs . Maximum: 1023
url	String	File URL or RESTful request URL for obtaining a video stream. This parameter is mandatory when the input type is url or edgerestful . The value contains a maximum of 1000 characters. Maximum: 1000
headers	Object	Headers carried in the RESTful request for obtaining a video stream. This parameter is optional when the input type is edgerestful . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed.
certificate_check	Boolean	Whether to verify the certificate of the HTTPS request. This parameter is mandatory when the input type is edgerestful . The value can be true or false .
rtsp_path_in_response	String	Video stream address in the response body for the RESTful request. This parameter is mandatory when the input type is edgerestful . The value contains a maximum of 1024 characters. Maximum: 1024
device_id	String	VCN ID. This parameter is mandatory when the input type is vcn .
stream_type	Integer	Stream type used for analysis. This parameter is optional when the input type is vcn . The value ranges from 1 to 3. The value 1 indicates primary stream, the value 2 indicates secondary stream 1, and the value 3 indicates secondary stream 2. Minimum: 1 Maximum: 3
id	String	ID of the edge device mounted to IEF. This parameter is mandatory when the input type is edgcamera . Maximum: 63

Table 4-1345 TaskInputVcn

Parameter	Type	Description
ip	String	IP address of the VCN server. This parameter is mandatory only when the input type is vcn .
port	Integer	Port number of the VCN server. This parameter is mandatory only when the input type is vcn . Minimum: 0 Maximum: 65535
username	String	Account name of a VCN server. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,100}\$.
password	String	Password of a VCN server account. This parameter is mandatory only when the input type is vcn . The value must match the regular expression ^.{1,1000}\$.

Table 4-1346 TaskOutputForDisplay

Parameter	Type	Description
obs	TaskOutputObs object	Configuration information when the output type is obs .
dis	TaskOutputDis object	Configuration information when the output type is dis .
webhook	TaskOutputWebhook object	Configuration information when the output type is webhook .
event_center	Boolean	Default: false

Table 4-1347 TaskOutputObs

Parameter	Type	Description
bucket	String	OBS bucket name. This parameter is mandatory when the OBS output type is used. The verification rule is (pattern: "^[a-z0-9](?![-./-./])([a-z0-9-]{1,61})[a-z0-9]\$ "). Maximum: 63

Parameter	Type	Description
path	String	OBS path. This parameter is mandatory when the OBS output type is used. The verification rule is <code>^(?![/\s])(?!\\.)([^\s?*<>"]){0,1023}(?<![\s])\$</code> . Maximum: 1023
data_category	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1348 TaskOutputDis

Parameter	Type	Description
stream_name	String	DIS stream name. This parameter is mandatory when the dis type is used. Maximum: 64
data_category	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1349 TaskOutputWebhook

Parameter	Type	Description
url	String	Result callback address. This parameter is mandatory when the output type is webhook . Maximum: 1000
headers	Object	Headers carried in result callback. This parameter is mandatory when the output type is webhook . The value is key-value pairs in JSON format. A maximum of 10 key-value pairs are allowed, and a minimum of 1 key-value pair is allowed.
data_category	Array of strings	List of job output types. This parameter is optional and is required only for some services. The output contains data in the dataCategory list. Array Length: 0 - 10

Table 4-1350 TaskServiceConfig

Parameter	Type	Description
common	Object	Job runtime configuration items customized by the service publisher. The value must be in JSON format. For details about the configuration items, see the description of the corresponding algorithm service.

Status code: 400

Table 4-1351 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Status code: 500

Table 4-1352 Response body parameters

Parameter	Type	Description
error_code	String	Error code
error_msg	String	Error information
detail	String	Error details
params	Array of strings	Error parameters Array Length: 0 - 1
reason	String	Error cause
advice	String	Suggestion

Example Requests

This request is used to obtain the tasks in the **Running**, **Succeeded**, **Stopped**, **Pending**, **Failed**, or **Abnormal** state.

```
/v2/{project_id}/tasks
```

```
https://{endpoint}/v2/{project_id}/tasks?page=1&page_size=10
```

Example Responses

Status code: 200

Response body for obtaining tasks

```
{
  "count": 2,
  "tasks": [ {
    "id": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "name": "qqqq_task",
    "service_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx",
    "created_at": "1686034773024",
    "state": "PENDING",
    "video_source_name": "url_test",
    "title": "testwjh",
    "type": "0",
    "algorithm_publish_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
  }, {
    "id": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
    "name": "task_test1",
    "service_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx",
    "created_at": "1686027880205",
    "state": "STOPPED",
    "video_source_name": "test_g11",
    "title": "alg_test",
    "type": "0",
    "algorithm_publish_id": "xxxxxxx-xxxxxxx-xxxxxxx-xxxxx-xxxxxx"
  } ],
  "page": 1,
  "page_size": 10
}
```

Status Codes

Status Code	Description
200	Response body for obtaining tasks
400	Request error
500	Internal error

Error Codes

See [Error Codes](#).

5 Alarm Information

5.1 People Flow Counting

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including the people flow statistics when passing a straight line or within a specific region, and the heatmap statistics.
 - Line-crossing people flow statistic on the edge

- Result example

```
{
  "task_id":"ee7d7f5c7ba24839b6abaf5b81607496",
  "stream_id":"test",
  "event_type":131073,
  "timestamp":1535546730,
  "message_id":"849D1326-4FC8-11EA-8F73-0242AC110004",
  "data":{
    "interval":2,
    "event_set":[
      {
        "line":[
          [
            480,
            1440
          ],
          [
            540,
            540
          ]
        ],
        "line_id":0,
        "side1_count":1,
        "side2_count":0,
        "side1_name":"side1",
        "side2_name":"side2"
      },
      {
        "line":[
          [
            490,
            1500
          ],
          [
            640,
            340
          ]
        ],

```

```

        "line_id":1,
        "side1_count":1,
        "side2_count":2,
        "side1_name":"in",
        "side2_name":"out"
    }
  ]
}

```

- Example of region-entering people flow statistics

```

{
  "task_id":"ee7d7f5c7ba24839b6abaf5b81607496",
  "stream_id":"test",
  "event_type":131074,
  "timestamp":1535546604,
  "message_id":"849D1326-4FC8-11EA-8F73-0242AC110004",
  "data":{
    "event_set":[
      {
        "polygon":[
          [
            480,
            270
          ],
          [
            1440,
            270
          ],
          [
            1440,
            810
          ],
          [
            480,
            810
          ]
        ],
        "count":2,
        "region_id":0
      },
      {
        "polygon":[
          [
            480,
            200
          ],
          [
            1110,
            170
          ],
          [
            1040,
            510
          ],
          [
            280,
            310
          ]
        ],
        "count":1,
        "region_id":1
      }
    ]
  }
}

```

- Heatmap detection result

```

{
  "task_id":"ee7d7f5c7ba24839b6abaf5b81607496",

```

```

"stream_id": "test1",
"event_type": 131075,
"timestamp": 5,
"message_id": "849D1326-4FC8-11EA-8F73-0242AC110004",
"data": {
  "interval": 1,
  "heat_image_base64": "/9j/4AAQSkZJRgABAjDA...",
  "heatpoint_image_base64": "/9j/2wBDAAMCAgMCAgMD..."
}
}

```

■ JSON format

Field	Type	Description
task_id	String	Task ID
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. JSON format: <ul style="list-style-type: none"> For line-crossing people flow statistics, the value is fixed to 131073, which is 0x 0000 0000 0002 0001 in hexadecimal format. For region-entering people flow statistics, the value is fixed to 131074, which is 0x 0000 0000 0002 0002 in hexadecimal format. For heatmap statistics, the value is fixed to 131075, which is 0x 0000 0000 0002 0003 in hexadecimal format.
message_id	String	Alarm ID in the form of a UUID
timestamp	Uint64	End time of line-crossing people flow statistics, region-entering people flow statistics, and heatmap statistics
data	Object	Service output content

■ data parameters of line-crossing people flow detection

Field	Type	Description
interval	Int	Interval for line-crossing people flow detection, in seconds
event_set	List<Object>	List of events generated

event_set parameters

Field	Type	Description
line	List<Object>	Sets of start and end points that form lines, for example, [[50,60],[1000,1000]]. The first point indicates the start point, and the second point indicates the end point.
line_id	Int	ID of a straight line
side1_count	Int	People passing through a straight line to side1_name
side2_count	Int	People passing through a straight line to side2_name
side1_name	String	Name of side1
side2_name	String	Name of side2

- **data** parameters of region-entering people flow detection

Field	Type	Description
event_set	List<Object>	List of events generated

event_set parameters

Field	Type	Description
polygon	List<Object>	A set of points that form a polygon, for example, [[484,465],[1850,450],[1905,1013],[515,1050]]
region_id	Int	Region ID
count	Int	People flow statistics of a region at the current time

- **data** parameters of heatmap detection

Field	Type	Description
interval	Int	Detection period of the heatmap, in seconds
heat_image_base64	Object	Base64 encoding results of heatmap detection

Field	Type	Description
heatpoint_image_base64	Object	Base64 encoding results after detecting the hotspot and generating the heatmap. The pixel value in the heatmap indicates the number of people detected in a position.

5.2 Intrusion Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "event_type":196609,
  "timestamp":1581753322,
  "stream_id":"08eeab92-d822-483a-bc60-eb3db54360f7",
  "message_id":"849D1326-4FC8-11EA-8F73-0242AC110004",
  "image_base64":"/9j/4AAQSkZJRgA...",
  "task_id":"cb088e91e03b4e4a87d55bbaae1debe0",
  "data":{
    "event_set":[
      {
        "start_position":"in",
        "end_position":"in",
        "bounding_box":{
          "y":327,
          "h":216,
          "x":876,
          "w":105
        },
        "category":0,
        "detection_id":"83BFC020-4FC8-11EA-9F93-0242AC110004"
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. For an intrusion detection event, the value is fixed to 196609 , which is 0x 0000 0000 0003 0001 in hexadecimal format. For a loitering detection event, the value is fixed to 196610 , which is 0x 0000 0000 0003 0002 in hexadecimal format.
task_id	String	Task ID
message_id	String	Alarm ID in the form of a UUID

Field	Type	Description
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- **data** parameter description

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
detection_id	String	UUID of the alarm object
category	Int	Alarm target type. The value can be: <ul style="list-style-type: none"> • 0: person • 1: vehicle • 2: other
start_position	String	Start position of the intrusion. This parameter is not generated for loitering detection. <ul style="list-style-type: none"> • For an intrusion against a line, the value is the name of the side from where the object enters. • For an intrusion into a region, the value is in or out. <ul style="list-style-type: none"> - in: The intrusion starts inside the region. - out: The intrusion starts outside the region.

Field	Type	Description
end_position	String	<p>End position of the intrusion. This parameter is not generated for loitering detection.</p> <ul style="list-style-type: none"> For an intrusion across a line, the value is the name of the side where the object arrives. For an intrusion into a region, the value is in or out. <ul style="list-style-type: none"> in: The intrusion ends inside the region. out: The intrusion ends outside the region.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.3 Staff On-Duty Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "event_type": 458752,
  "task_id": "01d0d8c40f24441c897db868e17a65db",
  "stream_id": "test",
  "timestamp": 1527603463,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIIBAQE...",
  "data": {
    "event_set": [{
      "polygon": [
        [484, 465],
        [1850, 450],
        [1905, 1013],
        [515, 1050]
      ],
      "counter": 1,
      "person_set": [{
        "bounding_box": {
          "x": 876,
          "y": 446,
          "w": 142,
```


Field	Type	Description
person_set	List<Object>	Bounding box for the alarm object

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Height of a bounding box
h	Int	Width of a bounding box

5.4 Abandoned Object Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "event_type": 327680,
  "timestamp": 1581753322,
  "stream_id": "08eeab92-d822-483a-bc60-eb3db54360f7",
  "message_id": "849D1326-4FC8-11EA-8F73-0242AC110004",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "task_id": "d86edc86e1c44acbae3901b8473185f7",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 931,
          "y": 576,
          "w": 307,
          "h": 124
        },
        "target_remaining_time": "10",
        "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004"
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. The value is fixed to 327680 , which is 0x 0000 0000 0005 0000 in hexadecimal format.

Field	Type	Description
task_id	String	Task ID
message_id	String	Alarm ID in the form of a UUID
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- **data** parameter description

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
target_remaining_time	Int	Target dwell time, in seconds NOTE Target dwell time: duration from the time when a target is detected to the time when an alarm is reported
detection_id	String	UUID of the alarm object

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.5 Crowd Density Monitoring

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "event_type": 524288,
  "task_id": "d1cde51e12eb47aaaafa36c2b4584b5c",
  "stream_id": "test_camera",
  "timestamp": 1527603463,
  "message_id": "E87B6D7C-4FFD-11EA-AD9D-34B354BC6688",
  "image_base64": "/3j24AAQSkZJRgABAQAAQABAAD/2wBDAAIIBAQE...",
  "data": {
    "scene_type": 1,
    "alarm_type": 2,
    "event_set": [{
      "crowd_count": 14,
      "banner_count": 5,
      "polygon": [
        [400, 200],
        [1280, 200],
        [1280, 720],
        [400, 720]
      ]
    }]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. The value is fixed to 524288 , which is 0x 0000 0000 0008 0000 in hexadecimal format.
task_id	String	Task ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service input content

- data parameters

Field	Type	Description
scene_type	Int	Scenario type. The value is fixed to 1 .

Field	Type	Description
alarm_type	Int	Alarm type. The value can be 0 , 1 , or 2 . A larger value indicates a more important alarm type. If the value is 0 , no alarm is reported, that is, the number of people or the number of banners does not exceed the alarm threshold. If the value is 1 , only the number of detected people exceeds the alarm threshold. If the value is 2 , the number of people and the number of banners both exceed the threshold.
event_set	List<Object>	Output results list, including the polygonal area of each alarm and the alarm statistics of each region, including the number of people and banners.

- **event_set** parameters

Field	Type	Description
polygon	List<Object>	Polygon area, which is formed by points in sequence, for example, [[400, 200], [1280, 200], [1280, 720] [400, 720]] . The polygon area is the detection area specified by the user.
crowd_count	Int	Number of people in the current region
banner_count	Int	Number of banners in the current region

5.6 Safety Suite Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "stream_id": "001",
  "event_type": 589824,
  "task_id": "d92a3de2be594710a981dc673bf5a570",
  "timestamp": 1527603463,
  "message_id": "ODD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "data": {
    "event_set": [
      {
        "bounding_box": {
```

```

        "x":100,
        "y":200,
        "w":80,
        "h":150
    },
    "type_cloth":0,
    "type_hat":0
  },
  {
    "bounding_box":{
      "x":200,
      "y":300,
      "w":70,
      "h":150
    },
    "type_cloth":0,
    "type_hat":1
  }
]
},
"image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIBAQE..."
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. The value is fixed to 589824 , which is 0x 0000 0000 0009 0000 in hexadecimal format.
task_id	String	Task ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
data	Object	For details about the output content, see data parameters .
image_base64	String	Base64 encoding results of the video image when the alarm is triggered

- data parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- event_set parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object

Field	Type	Description
type_hat	Int	Type of the work hat detection alarm. This parameter is valid when hat_detection_sw is enabled. The value can be: <ul style="list-style-type: none"> • 0: The person is wearing the work hat. • 1: The person is not wearing the work hat.
type_cloth	Int	Type of the work clothes detection alarm. This parameter is valid when cloth_detection_sw is enabled. The options are as follows: <ul style="list-style-type: none"> • 0: A person does not wear the work clothes • 1: A person wears the work clothes

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.7 Fire and Smoke Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "event_type": 393216,
  "task_id": "2f268b9472a544e991eae3c5c3534f5b",
  "stream_id": "b664d367-3bf4-4d94-969f-b877d8c5d9ae",
  "timestamp": 1558645124,
  "message_id": "82C02174-4FEB-11EA-9357-407D0FAD91FC",
  "image_base64": "/9j/4AAQSkZJRgABAQAAQABAAD/",
  "data": {
    "event_set": [
      {
        "state": 2,
        "bounding_box": {
          "x": 27,
          "y": 0,
```

```

    "w": 115,
    "h": 115
  }
}
]
}
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. The value is fixed to 393216 , which is 0x 0000 0000 0006 0000 in hexadecimal format.
task_id	String	Task ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
data	Object	Service input content
image_base64	String	Base64 encoding results of the video image when the alarm is triggered

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
state	Int	Type of the smoke and fire detection alarm: <ul style="list-style-type: none"> • 1: fire detected • 2: smoke detected

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box

Field	Type	Description
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.8 Fight Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "task_id": "a29dfa1bfcdd4a62b3f6048fe6965e8b",
  "stream_id": "aec5857c-222f-4aa9-be39-23654e118886",
  "event_type": 917504,
  "timestamp": 1535546604,
  "image_base64": "/9j/4AAQSkZJRgABAJDA...",
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 931,
          "y": 576,
          "w": 307,
          "h": 124
        },
        "confidence": 0.75
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	UInt64	Event type of the output message. The value is fixed to 917504 , which is 0x0000 0000 000E 0000 in hexadecimal format.
task_id	String	Task ID
timestamp	UInt64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service input content

- data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
confidence	Double	Confidence of a fight event

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.9 Shared Bicycle Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "stream_id": "001",
  "event_type": 655360,
  "task_id": "a9c003fa9c7843118f79ee2ddd4389f1",
  "timestamp": 1527603463,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 100,
          "y": 200,
          "w": 80,
          "h": 150
        },
        "detection_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218"
      },
      {
        "bounding_box": {
          "x": 200,
          "y": 300,
          "w": 70,
          "h": 150
        },
        "detection_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9219",
        "polygon_name": "illegal01"
      }
    ]
  }
}
```

```

    }
  ]
},
"image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIBAQE..."
}

```

- JSON format

Parameter	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. The value is fixed to 655360 , which is 0x 0000 0000 000A 0000 in hexadecimal format.
task_id	String	Task ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
data	Object	Output in detail
image_base64	String	Base64 encoding results of the video image when the alarm is triggered

- **data** parameters

Parameter	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Parameter	Type	Description
bounding_box	Object	Rectangle for the alarm object
detection_id	String	Unique ID of an alarm object
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box

Field	Type	Description
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.10 Individual Behavior Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "event_type": 720896,
  "task_id": "de6f35a7cd904830b2ca544e4613febe",
  "stream_id": "test_stream",
  "timestamp": 1535546604,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgABAjDA...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 100,
          "y": 200,
          "w": 80,
          "h": 150
        }
      },
      {
        "bounding_box": {
          "x": 200,
          "y": 300,
          "w": 70,
          "h": 150
        }
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
event_type	Uint64	Event type of the output alarm. <ul style="list-style-type: none"> For a smoking event, this value is fixed to 720896. For an event of using the mobile phone, this value is fixed to 786432.
task_id	String	Task ID
stream_id	String	Camera ID
timestamp	Uint64	Time stamp when an alarm is triggered
message_id	String	Alarm ID in the form of a UUID

Field	Type	Description
image_base64	String	Base64 encoding results of the image correspond to the video frame when an alarm is triggered
data	Object	A list of the output results. Each group of data corresponds to the alarm ID and the target list. For details, see data parameters .

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **data** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.11 Individual Action Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "stream_id": "001",
  "event_type": 851968,
  "task_id": "6c4f45a2bf404c65961c8bbf63ff5bf3",
  "timestamp": 1527603463,
  "message_id": "ODD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "data": {
    "event_set": [
      {
        "bounding_box": {
```

```

        "x":100,
        "y":200,
        "w":80,
        "h":150
    },
    {
        "bounding_box":{
            "x":200,
            "y":300,
            "w":70,
            "h":150
        }
    }
]
},
"image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIABAQE..."
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type for the results of individual action detection. <ul style="list-style-type: none"> • For a climbing event, the value is fixed to 851968, which is 0x 0000 0000 000D 0000 in hexadecimal format. • For a falling event, the value is fixed to 851969, which is 0x 0000 0000 000D 0001 in hexadecimal format. • For a waving event, the value is fixed to 851970, which is 0x 0000 0000 000D 0010 in hexadecimal format. • For a bending event, the value is fixed to 851971, which is 0x 0000 0000 000D 0011 in hexadecimal format. • For a picking event, the value is fixed to 852224, which is 0x 0000 0000 000D 0100 in hexadecimal format.
task_id	String	Task ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
data	Object	Output in detail
image_base64	String	Base64 encoding results of the video image when the alarm is triggered

- data parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.12 Mask Wearing Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "stream_id": "aec5857c-222f-4aa9-be39-23654e118886",
  "event_type": 1048576,
  "task_id": "61761681a6014e7c9024d642a0d4d412",
  "timestamp": 1527603463,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIIBAQE...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 100,
          "y": 200,
          "w": 80,
          "h": 150
        }
      },
      {
        "bounding_box": {
          "x": 200,
          "y": 300,
          "w": 70,
          "h": 150
        }
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	UInt64	Event type of the output message. The value is fixed to 1048576 , which is 0x0000 0000 0010 0000 in hexadecimal format.
task_id	String	Task ID
timestamp	UInt64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	A list of the output results. Each group of data corresponds to the alarm ID and the target list. For details, see the description of data parameters.

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.13 Abnormal Parking

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "event_type": 74240,
  "task_id": "61761681a6014e7c9024d642a0d4d412",
  "stream_id": "0354340000000000101#1c471506397a48ecab0ba52360bdd430",
  "timestamp": 1535546604,
  "message_id": "ODD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgABAJDA...",
  "data": {
    "vehicles": [{
      "bounding_box": {
        "x": 858,
        "y": 200,
        "w": 679,
        "h": 535
      },
      "license_plate_id": "Guangdong C3X94L",
      "detection_id": "dc7d8815-b34b-4ba4-b33f-c9c6cd346d79",
      "polygon_name": "a"
    }
  ]
}
```

- JSON format

Field	Type	Description
event_type	Int	Output flag of the abnormal parking detection result. The value is fixed to 74240 .
message_id	String	UUID of the JSON output, which uniquely identifies the output record
stream_id	String	Camera ID, which uniquely identifies a camera. For offline videos, video names are displayed to distinguish between different video sources.
timestamp	Int	Timestamp when an abnormal parking event is detected
data	Object	List of fields in the abnormal parking detection result. For details, see the description of data parameters.
image_base64	String	Base64 code of an image
task_id	String	Task ID

- data** parameters

Field	Type	Description
vehicles	List<Object>	List of output vehicles

- **vehicles** parameters

Field	Type	Description
bounding_box	Object	Coordinates of a bounding box
license_plate_id	String	License plate. When the license plate cannot be detected, "" (an empty string) is output by default.
detection_id	String	UUID of an abnormal parking event, which is used to identify whether the alarm points to the same vehicle. Note that the license plate may be blocked or blurred. As a result, this field may be inaccurate.
polygon_name	String	ROI where the abnormal parking event occurs

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.14 Vehicle Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "event_type": 75008,
  "task_id": "a066974ae 7334649a37257242c5fa4c3",
  "stream_id": "0354340000000000101#1c471506397a48ecab0ba52360bdd430",
  "timestamp": 1535546604,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgABAJDA...",
  "data": {
    "vehicles": [{
      "bounding_box": {
        "x": 858,
```

```

        "y": 200,
        "w": 679,
        "h": 535
    },
    "vehicle_type": 0,
    "tarpaulin_type": -1,
    "license_plate_id": "XXXXXX",
    "license_plate_type": 0,
    "direction": 1
  }}
}

```

- JSON format

Field	Type	Description
event_type	Int	Output flag of the vehicle detection result. The value is fixed to 75008 .
message_id	String	UUID of the JSON output, which uniquely identifies the output record
stream_id	String	Camera ID, which uniquely identifies a camera. For offline videos, video names are displayed to distinguish between different video sources.
timestamp	Int	Timestamp when a vehicle is detected
data	Object	List of fields in the vehicle detection result. For details, see the description of data parameters.
image_base64	String	Base64 code of an image
task_id	String	Task ID

- **data** parameters

Field	Type	Description
vehicles	List<Object>	List of output vehicles

- **vehicles** parameters

Field	Type	Description
bounding_box	Object	Coordinates of a bounding box

Field	Type	Description
vehicle_type	Int	Type of detected vehicles: 0: car 1: dump truck 2: trailer 3: cement mixer 4: sanitation vehicle 5: crane 6: pickup truck 7: bus 8: fuel tanker 9: other
tarpaulin_type	Int	Tarpaulin type of detected dump trucks: -1: non dump truck 0: covered by a tarpaulin 1: not covered by a tarpaulin
license_plate_id	String	License plate. When the license plate cannot be recognized, an empty string is output.
license_plate_type	Int	Color of license plate. 0 indicates unknown, 1 indicates blue, 2 indicates yellow, 3 indicates green (new energy vehicle), 4 indicates white, and 5 indicates black. If the license plate cannot be recognized, the output is 0 .
direction	Int	Vehicle direction. 0: approaching. The vehicle head is captured. 1: leaving. The vehicle rear is captured.
detection_id	String	UUID of the reported vehicle. The ID is used to identify whether the alarm points to the same vehicle. You can configure multiple parking lines and departure lines. When a vehicle crosses a line, an alarm is reported. Note that the license plate may be blocked or blurred. As a result, this field may be inaccurate.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.15 Fire Passage Obstruction Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- The JSON result includes the alarm of fire passage obstructed by vehicles or by other objects.

- JSON example (passageway obstructed by vehicles)

```
{
  "event_type": 1179649,
  "task_id": "a066974ae7334649a37257242c5fa4c3",
  "stream_id": "001",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004",
        "plate_id": "XXXXXX",
        "polygon_name": "",
        "bounding_box": {
          "x": 1712,
          "y": 560,
          "w": 207,
          "h": 180
        }
      }
    ]
  }
}
```

- JSON example (passageway obstructed by other objects)

```
{
  "event_type": 1179648,
  "task_id": "a066974ae7334649a37257242c5fa4c3",
  "stream_id": "001",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004",
        "polygon_name": "",
        "bounding_box": {
          "x": 679,
          "y": 376,
          "w": 483,
          "h": 342
        }
      }
    ]
  }
}
```

```

    }
  ]
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Quickly identifies the output message type of the service for detecting the occupation of the fire extinguishing channel. <ul style="list-style-type: none"> For object obstruction, the value is fixed to 1179648, which corresponds to 0x 0000 0000 0012 0000 in hexadecimal format. For vehicle obstruction, the value is fixed to 1179649, which corresponds to 0x 0000 0000 0012 0001 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object

Field	Type	Description
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.
plate_id	String	License plate number of the vehicle in the reported alarm (7-digit or 8-digit). This parameter is available only when vehicle_occupation_sw is set to 1 . Note that the license plate may be blocked, blurred, or some fields are similar. As a result, the license plate detection fails or is inaccurate. If the detection fails, an empty string is output.

– **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.16 Non-motorized Vehicle Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "event_type":1376256,
  "task_id":"2f268b9472a544e991eae3c5c3534f5b",
```

```

"stream_id": "9f8933c9-448c-48e5-8bc0-631ea83b92eb",
"timestamp": 1527603463,
"message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
"image_base64": "/3j24AAQSkZJRgABAQAAQABAAD/2wBDAAIBAQE...",
"data":{
  "event_set":[
    {
      "bounding_box":{
        "x":100,
        "y":200,
        "w":80,
        "h":150
      },
      type: "bicycle"
    },
    {
      "bounding_box":{
        "x":200,
        "y":300,
        "w":70,
        "h":150
      },
      type: "electromobile"
    }
  ]
}

```

- JSON format

Field	Type	Description
event_type	Uint64	Event type for the results of non-motorized vehicle detection. <ul style="list-style-type: none"> • For parking violation, the value is fixed to 1376256, which is 0x 0000 0000 000150000 in hexadecimal format. • For intrusion detection, the value is fixed to 1376257, which is 0x 0000 0000 000150001 in hexadecimal format.
task_id	String	Task ID
stream_id	String	Camera ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Output in detail

- data parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
type	String	Vehicle type. The value can be bicycle or electromobile .

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.17 Trash Can Anomaly Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "event_type":1507328,
  "task_id":"8656efdafefb440bb7008f174db6c567",
  "stream_id": "9f8933c9-448c-48e5-8bc0-631ea83b92eb",
  "timestamp": 1527603463,
  "message_id": "ODD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIABAQE...",
  "data":{
    "event_set":[
      {
        "bounding_box":{
          "x":100,
          "y":200,
          "w":80,
          "h":150
        }
      },
      {
        "bounding_box":{
          "x":200,
          "y":300,
          "w":70,
          "h":150
        }
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
event_type	Uint64	Event type of the output message. The value is fixed to 1507328 , which is 0x 0000 0000 000170000 in hexadecimal format.
task_id	String	Task ID
stream_id	String	Camera ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Output in detail

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.18 Overflowing Garbage Can Detection in Cities

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "event_type":1703936,
  "task_id":"taskf838190",
  "stream_id": "9f8933c9-448c-48e5-8bc0-631ea83b92eb",
  "timestamp": 1527603463,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIIBAQE...",
  "data":{
    "event_set":[
      {
        "bounding_box":{
          "x":100,
          "y":200,
          "w":80,
          "h":150
        }
      },
      {
        "bounding_box":{
          "x":200,
          "y":300,
          "w":70,
          "h":150
        }
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
event_type	Uint64	Event type of the output message. <ul style="list-style-type: none"> The value is fixed to 1703936, which is 0x 0000 0000 0001A0000 in hexadecimal format.
task_id	String	Task ID
stream_id	String	Camera ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Output in detail

- data parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- event_set parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.19 Peak Crowd Counting

- Data streams in JSON format are output to the specified DIS channels, including structured data and images.
- Result example when the value of **grid_x_number** or **grid_y_number** is 0 (classic ROI settings):

```
{
  "event_type": 1769472,
  "task_id": "taskcgtiad41",
  "stream_id": "test_camera",
  "timestamp": 1527603463,
  "message_id": "E87B6D7C-4FFD-11EA-AD9D-34B354BC6688",
  "image_base64": "/3j24AAQSkZJRgABAQAAQABAAD/2wBDAAIABAQE...",
  "data": {
    "scene_type": 1,
    "alarm_type": 1,
    "total_crowd_count": 14,
    "event_set": [{
      "crowd_count": 14,
      "polygon": [
        [400, 200],
        [1280, 200],
        [1280, 720],
        [400, 720]
      ]
    }]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. The value is fixed to 1769472 , which is 0x 0000 0000 001B 0000 in hexadecimal format.

Field	Type	Description
task_id	String	Task ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service input content

- **data** parameters

Field	Type	Description
scene_type	Int	Scenario type. The value is fixed to 1 .
alarm_type	Int	Alarm type. The value can be 0 or 1 . If the value is 0 , no alarm is reported, that is, the number of people does not exceed the alarm threshold. If the value is 1 , only the number of detected people exceeds the alarm threshold.
total_crowd_count	Uint64	Total number of people in all ROIs
event_set	List<Object>	Output results list, including the polygonal area of each alarm and the alarm statistics of each region

- **event_set** parameters

Field	Type	Description
polygon	List<Object>	Polygon area, which is formed by points in sequence, for example, [[400, 200], [1280, 200], [1280, 720] [400, 720]] . The polygon area is the detection area specified by the user.
crowd_count	Int	Number of people in the current region

- Result example when the value of **grid_x_number** and **grid_y_number** is greater than 0, while **target_roi** is set to the lower right corner of the image:

```
{
  "event_type": 1769472,
  "task_id": "taskcgtiad41",
  "stream_id": "test_camera",
```

```

"timestamp": 1527603463,
"message_id": "E87B6D7C-4FFD-11EA-AD9D-34B354BC6688",
"image_base64": "/3j24AAQSkZJRgABAQAAQABAAD/2wBDAAIIBAQE...",
"data": {
  "scene_type": 1,
  "alarm_type": 1,
  "total_crowd_count": 14,
  "grid_width": 400,
  "grid_height": 180,
  "event_set": [{
    "grid_crowd_count": [
      [-1, -1, -1, -1, -1, -1, -1, -1, -1, -1],
      [-1, -1, -1, -1, -1, -1, -1, -1, -1, -1],
      [-1, -1, -1, -1, -1, -1, -1, -1, -1, -1],
      [-1, 0, 0, 4, 7, 8, 6, 4, 3, 4],
      [-1, 7, 3, 7, 5, 8, 3, 3, 1, 2],
      [-1, 6, 0, 6, 8, 7, 5, 2, 0, 6],
      [-1, 5, 6, 0, 0, 8, 8, 6, 7, 2],
      [-1, 4, 2, 8, 9, 1, 7, 5, 3, 5],
      [-1, 0, 1, 8, 4, 3, 1, 6, 2, 3],
      [-1, 3, 8, 0, 4, 5, 3, 3, 6, 3]
    ]
  }]
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. The value is fixed to 1769472 , which is 0x 0000 0000 001B 0000 in hexadecimal format.
task_id	String	Task ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service input content

- data parameters

Field	Type	Description
scene_type	Int	Scenario type. The value is fixed to 1 .
alarm_type	Int	Alarm type. The value can be 0 or 1 . If the value is 0 , no alarm is reported, that is, the number of people does not exceed the alarm threshold. If the value is 1 , only the number of detected people exceeds the alarm threshold.

Field	Type	Description
total_crowd_count	Uint64	Total number of people in all ROIs
grid_width	Int	Video frame width/Number of horizontal grids. The value is rounded down.
grid_height	Int	Video frame height/Number of vertical grids. The value is rounded up.
event_set	List<Object>	Output results list, including the head counting result of each grid

- **event_set** parameters

Field	Type	Description
grid_crowd_count	List<Object>	Number of people in each grid. The grid sequence is from left to right and from top to bottom. The value -1 indicates that the grid is outside the target_roi area.

5.20 Target Attribute Recognition

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "stream_id": "001",
  "event_type": 2162688,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 100,
          "y": 200,
          "w": 80,
          "h": 150
        },
        "type": "pedestrian",
        "attribute": {
          "gender": "male",
          "age": "young",
          "hair": "short_hair",
          "glasses": "yes",
          "hat": "none",
          "mask": "yes",
          "backbag": "yes",
          "handbag": "no",
          "single_shoulder_bag": "no",

```

```

        "upper_color": "black",
        "upper_style": "short_sleeve",
        "upper_texture": "pure",
        "lower_color": "black",
        "lower_style": "shorts",
        "orientation": "front"
    },
    "polygon_name":""
}
}
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type for the output message. <ul style="list-style-type: none"> • The value is fixed to 2162688, which is 0x 0000 0000 0021 0000 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object

Field	Type	Description
type	String	Target type. The following output types are supported: pedestrian bicycle electronicmobile car slag_car trailer concrete_mixer bus other_vehicle
attribute	Object	Pedestrian attribute. This parameter is available for targets of pedestrians only when pedestrian detection is enabled.
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

- **attribute** parameters

Field	Type	Description
gender	String	Pedestrian gender. This parameter is available only when this attribute is set in pedes_attri_switch . Options: male female

Field	Type	Description
age	String	Pedestrian age group. This parameter is available only when this attribute is set in pedes_attri_switch . Options: child young middle old
hair	String	Hairstyle. This parameter is available only when this attribute is set in pedes_attri_switch . Options: short_hair long_hair bald
glasses	String	Whether a person is wearing glasses. This parameter is available only when this attribute is set in pedes_attri_switch . Options: glasses_yes glasses_no
hat	String	Head covering. This parameter is available only when this attribute is set in pedes_attri_switch . Options: Hat : The target is wearing a hat. Helmet : The target is wearing a helmet. hat_no : The target is not wearing a head covering.
mask	String	Whether a person is wearing a mask. This parameter is available only when this attribute is set in pedes_attri_switch . Options: mask_yes mask_no
backbag	String	Whether a person is wearing a backpack. This parameter is available only when this attribute is set in pedes_attri_switch . Options: backbag_yes backbag_no

Field	Type	Description
handbag	String	Whether a person is carrying a handbag. This parameter is available only when this attribute is set in pedes_attri_switch . Options: handbag_yes handbag_no
single_shoulder_bag	String	Whether a person is wearing a sling bag. This parameter is available only when this attribute is set in pedes_attri_switch . Options: single_shoulder_bag_yes single_shoulder_bag_no
upper_color	String	Tops color. This parameter is available only when this attribute is set in pedes_attri_switch . Options: upper_color_black : black upper_color_silver : silver or white upper_color_blue : blue upper_color_green : green upper_color_yellow : yellow or orange upper_color_red : red, pink, or purple
upper_style	String	Tops style. This parameter is available only when this attribute is set in pedes_attri_switch . Options: short_sleeve long_sleeve
upper_texture	String	Tops pattern. This parameter is available only when this attribute is set in pedes_attri_switch . Options: pure : solid color stripe : stripes grid : grids mixture : patterns or prints and patterns

Field	Type	Description
lower_color	String	Bottoms color. This parameter is available only when this attribute is set in pedes_attri_switch . Options: lower_color_black : black lower_color_silver : silver or white lower_color_blue : blue lower_color_green : green lower_color_yellow : yellow or orange lower_color_red : red, pink, or purple
lower_style	String	Bottoms style. This parameter is available only when this attribute is set in pedes_attri_switch . Options: shorts trousers short_skirt long_skirt
orientation	String	Pedestrian orientation. This parameter is available only when this attribute is set in pedes_attri_switch . Options: front back left right

5.21 E-bike Rider Helmet Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "event_type":1179664,
  "timestamp":1581753322,
  "stream_id":"08eeab92-d822-483a-bc60-eb3db54360f7",
  "message_id":"849D1326-4FC8-11EA-8F73-0242AC110004",
  "image_base64":"/9j/4AAQSkZJRgA...",
  "task_id":"cb088e91e03b4e4a87d55bbaae1debe0",
  "data":{
    "event_set":[
      {
        "bounding_box":{
          "y":327,
          "h":216,
          "x":876,
          "w":105
        }
      }
    ]
  }
}
```

```

    },
    "detection_id":"83BFC020-4FC8-11EA-9F93-0242AC110004"
  }
]
}
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type for the results of e-bike rider helmet detection. <ul style="list-style-type: none"> • The value is fixed to 1179664, which is 0x 0000 0000 0012 0010 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- data parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- event_set parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- bounding_box parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box

Field	Type	Description
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.22 Umbrella Violation Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "stream_id": "001",
  "event_type": 2293760,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 0,
          "y": 618,
          "w": 585,
          "h": 462
        },
        "polygon_name": "a",
        "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004"
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. <ul style="list-style-type: none"> The value is fixed to 2293760, which is 0x 0000 0000 0023 0000 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered

Field	Type	Description
data	Object	Service output content

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.23 Advertisement Violation Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "stream_id": "001",
  "event_type": 1638400,
  "task_id": "taskud8b8499",
```

```

"timestamp": 1560346229,
"message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
"image_base64": "/9j/4AAQSkZJRgA...",
"data": {
  "event_set": [
    {
      "bounding_box": {
        "x": 0,
        "y": 618,
        "w": 585,
        "h": 462
      },
      "polygon_name": "a",
      "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004"
    }
  ]
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. <ul style="list-style-type: none"> • The value is fixed to 1638400, which is 0x 0000 0000 0019 0000 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.

Field	Type	Description
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.24 Messy Piles Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "stream_id": "001",
  "event_type": 2228224,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 0,
          "y": 618,
          "w": 585,
          "h": 462
        },
        "polygon_name": "a",
        "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004"
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID

Field	Type	Description
event_type	Uint64	Event type of the output message. <ul style="list-style-type: none"> The value is fixed to 2228224, which is 0x 0000 0000 0022 0000 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box

Field	Type	Description
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.25 Clothes Airing Violation Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "stream_id": "001",
  "event_type": 2359296,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 0,
          "y": 618,
          "w": 585,
          "h": 462
        },
        "polygon_name": "a",
        "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004"
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. <ul style="list-style-type: none"> The value is fixed to 2359296, which is 0x 0000 0000 0024 0000 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.26 Littering Construction Waste Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "stream_id": "001",
  "event_type": 2490368,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {

```

```

        "bounding_box": {
            "x": 0,
            "y": 618,
            "w": 585,
            "h": 462
        },
        "polygon_name": "a",
        "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004"
    }
}
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. <ul style="list-style-type: none"> • The value is fixed to 2490368, which is 0x 0000 0000 0026 0000 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- data parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- event_set parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.

Field	Type	Description
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.27 Missing Manhole Cover Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "stream_id": "001",
  "event_type": 2424832,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 0,
          "y": 618,
          "w": 585,
          "h": 462
        },
        "polygon_name": "a",
        "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004"
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID

Field	Type	Description
event_type	Uint64	Event type of the output message. <ul style="list-style-type: none"> The value is fixed to 2424832, which is 0x 0000 0000 0025 0000 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box

Field	Type	Description
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.28 Missing Manhole Cover Detection From a Dynamic Perspective

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "stream_id": "002",
  "event_type": 2031616,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 100,
          "y": 100,
          "w": 150,
          "h": 150
        }
      }
    ],
    "detection_id": "2AC19F93-39BH-180F-C020-02483BF10004"
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	UInt64	Event type of the output message. The value is fixed to 2031616 , which is 0x 0000 0000 001F 0000 in hexadecimal format.
task_id	String	Task ID
timestamp	UInt64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
data	Object	For details about the output content, see data parameters .
image_base64	String	Base64 encoding results of the video image when the alarm is triggered

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.29 Urban Trash Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "stream_id": "002",
  "event_type": 1310720,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 100,
          "y": 100,
          "w": 150,
          "h": 150
        },
        "person_box": {
          "x": 150,

```

```

        "y": 150,
        "w": 250,
        "h": 350
      },
      "polygon_name": "a",
      "detection_id": "2AC19F93-39BH-180F-C020-02483BF10004"
    }
  ]
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. <ul style="list-style-type: none"> • The value is fixed to 1310720, which is 0x 0000 0000 0014 0000 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- data parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- event_set parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
person_box	Object	Rectangle for the suspected litterer. This parameter is available only when trash_detect_sw is set to 2 .
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.

Field	Type	Description
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

- **person_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box. If no person is detected, the value is -1 .
y	Int	Vertical coordinate of the upper-left corner of a bounding box. If no person is detected, the value is -1 .
w	Int	Width of a bounding box. If no person is detected, the value is -1 .
h	Int	Height of a bounding box. If no person is detected, the value is -1 .

5.30 Urban Mobile Trash Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "stream_id": "002",
  "event_type": 2031616,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA..."
```

```

"data":{
  "event_set":[
    {
      "bounding_box": {
        "x": 100,
        "y": 100,
        "w": 150,
        "h": 150
      },
      "detection_id": "2AC19F93-39BH-180F-C020-02483BF10004"
    }
  ]
}

```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. The value is fixed to 2031616 , which is 0x 0000 0000 001F 0000 in hexadecimal format.
task_id	String	Task ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
data	Object	For details about the output content, see data parameters .
image_base64	String	Base64 encoding results of the video image when the alarm is triggered

- data parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- event_set parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- bounding_box parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.31 Urban Roadside Stall Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "stream_id": "001",
  "event_type": 1114112,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 0,
          "y": 618,
          "w": 585,
          "h": 462
        },
        "polygon_name": "a",
        "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004"
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	UInt64	Event type of the output message. <ul style="list-style-type: none"> For roadside stall detection, the value is fixed to 1114112, which is 0x 0000 0000 0011 0000 in hexadecimal format. For outstore stall detection, the value is fixed to 1245184 which is 0x 0000 0000 0013 0000 in hexadecimal format.
task_id	String	Task ID

Field	Type	Description
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- **data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.32 Exposed Bare Soil Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "stream_id": "001",
  "event_type": 2555904,
  "task_id": "taskud8b8499",
  "timestamp": 1560346229,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgA...",
  "data": {
    "event_set": [
      {
        "bounding_box": {
          "x": 0,
          "y": 618,
          "w": 585,
          "h": 462
        },
        "polygon_name": "a",
        "detection_id": "83BFC020-4FC8-11EA-9F93-0242AC110004"
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type of the output message. <ul style="list-style-type: none"> The value is fixed to 2555904, which is 0x 0000 0000 0027 0000 in hexadecimal format.
task_id	String	Task ID
message_id	String	UUID that uniquely identifies the output message
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
polygon_name	String	Name of the area where the target is located. For the area name setting, see the target_roi field. If the area name is not set, this field is an empty string by default.
detection_id	String	UUID of the alarm target. In the same detection area, the IDs of consecutively detected alarms remain unchanged. If the detection target is lost during tracking, the ID changes.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.33 Wrong-Way Driving Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "event_type": 75009,
  "task_id": "a066974ae7334649a37257242c5fa4c3",
  "stream_id": "0354340000000000101#1c471506397a48ecab0ba52360bdd430",
  "timestamp": 1535546604,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgABAJDA...",
  "data": {
    "vehicles": [{
      "bounding_box": {
        "x": 858,
        "y": 200,
        "w": 679,
        "h": 535
      },
      "license_plate_id": "XXXXXX",
      "license_plate_type": 0,
      "direction": 0
    }
  ]
}
```

```
}
}
```

- JSON format

Field	Type	Description
event_type	Int	Output flag of the vehicle detection result. The value is fixed to 75009 .
message_id	String	UUID of the JSON output, which uniquely identifies the output record
stream_id	String	Camera ID, which uniquely identifies a camera. For offline videos, video names are displayed to distinguish between different video sources.
timestamp	Int	Timestamp when a vehicle is detected
data	Object	List of fields in the vehicle detection result. For details, see the description of data parameters.
image_base64	String	Base64 code of an image
task_id	String	Task ID

- **data** parameters

Field	Type	Description
vehicles	List<Object>	List of output vehicles

- **vehicles** parameters

Field	Type	Description
bounding_box	Object	Coordinates of a bounding box
license_plate_id	String	License plate. When the license plate cannot be recognized, an empty string is output.
license_plate_type	Int	Color of license plate. 0 indicates unknown, 1 indicates blue, 2 indicates yellow, 3 indicates green (new energy vehicle), 4 indicates white, and 5 indicates black. If the license plate cannot be recognized, the output is 0 .

Field	Type	Description
direction	Int	Vehicle direction. 0 : approaching. The vehicle head is captured. 1 : leaving. The vehicle rear is captured.

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.34 Peak Speeding Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "event_type": 75012,
  "task_id": "a066974ae7334649a37257242c5fa4c3",
  "stream_id": "0354340000000000101#1c471506397a48ecab0ba52360bdd430",
  "timestamp": 1535546604,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgABAJDA...",
  "data": {
    "vehicles": [{
      "bounding_box": {
        "x": 858,
        "y": 200,
        "w": 679,
        "h": 535
      }
      "speed": 10,
      "direction": 0
    },
    {
      "bounding_box": {
        "x": 858,
        "y": 200,
        "w": 679,
        "h": 535
      }
      "speed": 10,
      "direction": 0
    }
  ]
}
```

- JSON format

Field	Type	Description
event_type	Int	Output flag of the vehicle detection result. The value is fixed to 75012 .
message_id	String	UUID of the JSON output, which uniquely identifies the output record
stream_id	String	Camera ID, which uniquely identifies a camera. For offline videos, video names are displayed to distinguish between different video sources.
timestamp	Int	Timestamp when a vehicle is detected
data	Object	List of fields in the vehicle detection result. For details, see the description of data parameters.
image_base64	String	Base64 code of an image
task_id	String	Task ID

- data** parameters

Field	Type	Description
vehicles	List<Object>	List of output vehicles

- vehicles** parameters

Field	Type	Description
bounding_box	Object	Coordinates of a bounding box
speed	Int	Vehicle speed (unit: km/h)
direction	Int	Vehicle direction. 0 : approaching. The vehicle head is captured. 1 : leaving. The vehicle rear is captured.

- bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box

Field	Type	Description
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.35 Peak Vehicle Counting

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example:

```
{
  "event_type": 75010,
  "task_id": "a066974ae7334649a37257242c5fa4c3",
  "stream_id": "0354340000000000101#1c471506397a48ecab0ba52360bdd430",
  "timestamp": 1535546604,
  "message_id": "0DD1BEA6-634B-11E8-8B0B-407D0FAD9218",
  "image_base64": "/9j/4AAQSkZJRgABAJDA...",
  "data": {
    "interval": 10,
    "event_set": [{
      "count": 2,
      "vehicles": [{
        "bounding_box": {
          "x": 858,
          "y": 200,
          "w": 679,
          "h": 535
        }
      },
      {
        "bounding_box": {
          "x": 858,
          "y": 200,
          "w": 679,
          "h": 535
        }
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
event_type	Int	Output flag of the vehicle detection result. The value is fixed to 75010 .
message_id	String	UUID of the JSON output, which uniquely identifies the output record
stream_id	String	Camera ID, which uniquely identifies a camera. For offline videos, video names are displayed to distinguish between different video sources.

Field	Type	Description
timestamp	Int	Timestamp when a vehicle is detected
data	Object	List of fields in the vehicle detection result. For details, see the description of data parameters.
image_base64	String	Base64 code of an image
task_id	String	Task ID

- **data** parameters

Field	Type	Description
interval	Int	Output interval, in seconds
event_set	List<Object>	Output result list. Each detection area corresponds to an object.

- **event_set** parameters

Field	Type	Description
count	Int	Number of vehicles in the area
vehicles	List<Object>	Information about vehicles in the area

- **vehicles** parameters

Field	Type	Description
bounding_box	Object	Coordinates of a bounding box

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.36 Vessel Intrusion Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.

- Result example:

```
{
  "event_type":33882113,
  "timestamp":1581753322,
  "stream_id":"08eeab92-d822-483a-bc60-eb3db54360f7",
  "message_id":"849D1326-4FC8-11EA-8F73-0242AC110004",
  "image_base64":"/9j/4AAQSkZJRgA...",
  "task_id":"task1tcb8lmg",
  "data":{
    "event_set":[
      {
        "bounding_box":{
          "y":327,
          "h":216,
          "x":876,
          "w":105
        },
        "category":0,
        "detection_id":"83BFC020-4FC8-11EA-9F93-0242AC110004"
      }
    ]
  }
}
```

- JSON format

Field	Type	Description
stream_id	String	Camera ID
event_type	Uint64	Event type the output message. The value is 0x 0000 0000 0205 0001 .
task_id	String	Task ID
message_id	String	Alarm ID in the form of a UUID
timestamp	Uint64	Time when the alarm is triggered
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Service output content

- data** parameters

Field	Type	Description
event_set	List<Object>	List of events generated

- event_set** parameters

Field	Type	Description
bounding_box	Object	Rectangle for the alarm object
detection_id	String	UUID of the alarm target
category	Int	Alarm target type, which depends on the project

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.37 Floating Debris Detection

- Data streams in JSON format are output to the specified webhook URLs, including structured data.
- Result example:

```
{
  "task_id": "task7qe4sbmo",
  "stream_id": "123456",
  "timestamp": 1569418161,
  "event_type": 33685505,
  "image_base64": "base64",
  "message_id": "7BA3A6AE-DF98-11E9-A00A-34B354BC6688",
  "data": {
    "suspect_tag": true,
    "bounding_box": {
      "x": 931,
      "w": 307,
      "y": 576,
      "h": 124
    }
  }
}
```

- JSON format

Field	Type	Description
task_id	String	ID of a video analysis job
stream_id	String	ID of the camera on VCN
timestamp	Int	Timestamp when an event occurs, in seconds

Field	Type	Description
event_type	Int	Event type of the output message. The value is fixed to 0x 0000 0000 0202 0001 .
image_base64	String	Base64 encoding results of the image correspond to the video frame when an alarm is triggered
message_id	String	Event ID, which is a unique string
data	Object	Event description, including the bounding box. For details, see the following table.

- Event information

Field	Type	Description
suspect_tag	bool	Whether the alarm object is suspected to be floating debris. Option: <ul style="list-style-type: none"> true: The alarm object is suspected to be floating debris. false: The alarm object is confirmed as floating debris.
bounding_box	List	Bounding box list

- Bounding box parameters

Field	Type	Description
x	Int	X coordinate in the upper left corner of the image corresponding to the detection target
y	Int	Y coordinate in the upper left corner of the image corresponding to the detection target
w	Int	Detection target width
h	Int	Detection target height

5.38 Drainage Outlet Monitoring

- Data streams in JSON format are output to the specified webhook URLs, including structured data.

- Result example:

```
{
  "task_id": "task7qe4sbmo",
  "stream_id": "123456",
  "timestamp": 1569418161,
  "event_type": 34013185,
  "message_id": "7BA3A6AE-DF98-11E9-A00A-34B354BC6688",
  "drainage_state": False,
  "image_base64": "base64",
}
```

- JSON format

Field	Type	Description
task_id	String	ID of the visual task delivered by IVA
stream_id	String	ID of the camera on VCN
timestamp	Int	Timestamp when an event occurs, in seconds
event_type	Int	Event type of the output message. The value is fixed to 34013185 .
message_id	String	Event ID, which is a unique string
drainage_state	Bool	Drainage status. Options: <ul style="list-style-type: none"> True: The drainage outlet is draining. False: The drainage outlet is not draining.
image_base64	String	Base64 encoding results of the image correspond to the video frame when an event occurs

5.39 Water Level Gauge Reading

- Data streams in JSON format are output to the specified webhook URLs, including structured data.
- Result example:

```
{
  "task_id": "task7qe4sbmo",
  "stream_id": "123456",
  "timestamp": 1569418161,
  "event_type": 33816579,
  "image_base64": "/9j/4AAQSkZJRgA...",
  "message_id": "7BA3A6AE-DF98-11E9-A00A-34B354BC6688",
  "data": {
    "water_level_list": [{
      "water_level": 12.00,
      "polygon": [
        {"x": 494, "y": 302},
        {"x": 565, "y": 302},
        {"x": 565, "y": 321},
        {"x": 494, "y": 321}
      ]
    }
  ]
}
```

- JSON format

Field	Type	Description
task_id	String	ID of the visual task delivered by IVA
stream_id	String	ID of the camera on VCN
timestamp	Int	Timestamp when an event occurs, in seconds
event_type	Int	Event type of the output message. The value is fixed to 33816579 .
image_base64	String	Base64 encoding results of the image correspond to the video frame when an event occurs
message_id	String	Event ID, which is a unique string
data	Object	Event description, including water level readings. For details, see the following table.

- Event list

Field	Type	Description
water_level_list	List[Object]	List of water level readings

- Event information

Field	Type	Description
water_level	Float	<p>Water level reading, in cm.</p> <p>When an exception occurs, this field is used as an error code. There are three types of error codes:</p> <ul style="list-style-type: none"> ● 999 indicates that the calibration information (calibration_info) provided during job creation does not comply with the specifications. ● 998 indicates that there is no water level gauge in the image. ● 997 indicates that there is a water level gauge in the image, but the result is unreliable because the horizontal distance between the detected intersection point of the water level gauge and the water surface and the leftmost or rightmost vertex of the calibration information is too long.
polygon	List[Object]	<p>Four vertices of a rectangle whose midpoint is the intersection point of the water level gauge and the water surface. The information is not directly related to the service and is not perceivable to users.</p>

5.40 Standing Water Detection

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example when **alert_mode** is set to **single**:

```
{
  "event_type":1900544,
  "task_id":"51d71bb66e6948969fd6156aa48ed36d",
  "stream_id": "25292206-995f-4c31-bfd5-b0dd7bc389e7",
  "timestamp": 1611648991,
  "message_id": "CBC9C702-5FAE-11EB-9DA9-0242AC110002",
  "image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIBAQE...",
  "data":{
    "event_set":[{
      "bounding_box":{
        "x": 0,
        "y": 752,
        "w": 1920,
        "h": 328
      }
    }]
  }
}
```

- When **alert_mode** is set to **periodic**, the results in JSON format when a waterlogging condition is detected are as follows:

```
{
  "event_type":1900544,
  "task_id":"51d71bb66e6948969fd6156aa48ed36d",
  "stream_id": "25292206-995f-4c31-bfd5-b0dd7bc389e7",
  "timestamp": 1611648991,
  "message_id": "CBC9C702-5FAE-11EB-9DA9-0242AC110002",
  "image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIBAQE...",
  "data":{
    "water_logging_ratio":0.15,
    "water_logging_flag":true,
    "event_set":[{
      "bounding_box":{
        "x": 0,
        "y": 752,
        "w": 1920,
        "h": 328
      }
    }]
  }
}
```

- When **alert_mode** is set to **periodic**, the results in JSON format when a waterlogging condition is not detected are as follows:

```
{
  "event_type":1900544,
  "task_id":"51d71bb66e6948969fd6156aa48ed36d",
  "stream_id": "25292206-995f-4c31-bfd5-b0dd7bc389e7",
  "timestamp": 1611648991,
  "message_id": "CBC9C702-5FAE-11EB-9DA9-0242AC110002",
  "image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIBAQE...",
  "data":{
    "water_logging_ratio":0.0,
    "water_logging_flag":false,
    "event_set":[]
  }
}
```

- JSON format

Field	Type	Description
event_type	Uint64	Event type for the output message. The value is fixed to 1900544 , which is 0x 0000 0000 0001D0000 in hexadecimal format.
task_id	String	Task ID
stream_id	String	Camera ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Output in detail

- **data** parameters

Field	Type	Description
water_logging_ratio	Float	Ratio of the waterlogged area to the detection area. This parameter is available only when the detection interval is set. The value range is [0,1].
water_logging_flag	Bool	Whether waterlogging has occurred. This parameter is available only when the detection interval is set.
event_set	List<Object>	List of events generated

- **event_set** parameters

Field	Type	Description
bounding_box	Object	Minimum bounding rectangle of the waterlogged area in the alarm output

- **bounding_box** parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box

Field	Type	Description
w	Int	Width of a bounding box
h	Int	Height of a bounding box

5.41 Cyanobacteria Identification

- Data streams in JSON format are output to the specified DIS channels or webhook URLs, including structured data and images.
- Result example when **alert_mode** is set to **single**:

```
{
  "event_type":34078721,
  "task_id":"51d71bb66e6948969fd6156aa48ed36d",
  "stream_id": "25292206-995f-4c31-bfd5-b0dd7bc389e7",
  "timestamp": 1611648991,
  "message_id": "CBC9C702-5FAE-11EB-9DA9-0242AC110002",
  "image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIBAQE...",
  "data":{
    "event_set":[{
      "bounding_box":{
        "x": 0,
        "y": 752,
        "w": 1920,
        "h": 328
      }
    }]
  }
}
```

- When **alert_mode** is set to **periodic**, the results in JSON format when cyanobacteria is identified are as follows:

```
{
  "event_type":34078721,
  "task_id":"51d71bb66e6948969fd6156aa48ed36d",
  "stream_id": "25292206-995f-4c31-bfd5-b0dd7bc389e7",
  "timestamp": 1611648991,
  "message_id": "CBC9C702-5FAE-11EB-9DA9-0242AC110002",
  "image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIBAQE...",
  "data":{
    "water_logging_ratio":0.15,
    "water_logging_flag":true,
    "event_set":[{
      "bounding_box":{
        "x": 0,
        "y": 752,
        "w": 1920,
        "h": 328
      }
    }]
  }
}
```

- When **alert_mode** is set to **periodic**, the results in JSON format when cyanobacteria is not identified are as follows:

```
{
  "event_type":34078721,
  "task_id":"51d71bb66e6948969fd6156aa48ed36d",
  "stream_id": "25292206-995f-4c31-bfd5-b0dd7bc389e7",
  "timestamp": 1611648991,
  "message_id": "CBC9C702-5FAE-11EB-9DA9-0242AC110002",
  "image_base64": "/3j24AAQSkZJRgABAQAAAQABAAD/2wBDAAIBAQE...",
  "data":{
```



```

    "water_logging_ratio":0.0,
    "water_logging_flag":false,
    "event_set":[]
  }
}

```

- JSON format

Field	Type	Description
event_type	Uint64	Event type for the output message. The value is fixed to 34078721 , which is 0x 0000 0000 0208 0001 in hexadecimal format.
task_id	String	Task ID
stream_id	String	Camera ID
timestamp	Uint64	Time when the alarm is triggered
message_id	String	Alarm ID in the form of a UUID
image_base64	String	Base64 encoding results of the video image when the alarm is triggered
data	Object	Output in detail

- data parameters

Field	Type	Description
water_logging_ratio	Float	Ratio of the cyanobacteria area to the detection area. This parameter is available only when the detection interval is set. The value range is [0,1].
water_logging_flag	Bool	Whether cyanobacteria bloom has occurred. This parameter is available only when the detection interval is set.
event_set	List<Object>	List of events generated

- event_set parameters

Field	Type	Description
bounding_box	Object	Minimum bounding rectangle of the cyanobacteria area in the alarm output

- bounding_box parameters

Field	Type	Description
x	Int	Horizontal coordinate of the upper-left corner of a bounding box
y	Int	Vertical coordinate of the upper-left corner of a bounding box
w	Int	Width of a bounding box
h	Int	Height of a bounding box

6 Common Parameters

6.1 Common Algorithm Parameters

target_roi

JSON structures are used to represent lines and polygons in the region of interest. The meanings of these lines and polygons depend on the services that use them.

- **target_roi** parameters

Parameter	Mandatory	Type	Description
lines	No	List<Object>	A list of lines
polygons	No	List<Object>	A list of polygons

- **Object** parameter structure in **lines**

Parameter	Mandatory	Type	Description
data	Yes	List<Object>	Sets of start and end points that form lines, for example, [[50,60], [1000,1000]]. The first point indicates the start point, and the second point end point.
name	No	String	Name of a line
properties	No	Object	Line properties

- **Object** parameter structure in **properties**

Parameter	Mandatory	Type	Description
side1_name	No	String	side1_name and side2_name indicate the two sides of a straight line. For a non-horizontal line, the left side is side1, and for a horizontal line, the upper side is side1.
side2_name	No	String	side1_name and side2_name indicate the two sides of a straight line. For a non-horizontal line, the right side is side2, and for a horizontal line, the lower side is side2.

- **Object parameter structure in polygons**

Parameter	Mandatory	Type	Description
data	Yes	List<Object>	A set of three or more points that form a polygon, for example, [[50,60],[1000,1000],[1000,2000][50,2000]]. The value has specified the sequence of the points in forming the polygon.
name	No	String	Name of a polygon
properties	No	Object	Properties of a polygon

7 Appendix

7.1 Status Codes

Status Code	Message	Description
100	Continue	The client continues sending the request. This provisional response informs the client that part of the request has been received and has not yet been rejected by the server.
101	Switching Protocols	Switching protocols. The target protocol must be more advanced than the source protocol. For example, the current HTTP protocol is switched to a later version.
200	Created	The request for creating a resource has been fulfilled.
202	Accepted	The request has been accepted, but the processing has not been completed.
203	Non-Authoritative Information	Non-authoritative information. The request is successful.
204	NoContent	The request has been fulfilled, but the HTTP response does not contain a response body. The status code is returned in response to an HTTP OPTIONS request.
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.

Status Code	Message	Description
206	Partial Content	The server has successfully processed a part of the GET request.
300	Multiple Choices	There are multiple options for the location of the requested resource. The response contains a list of resource characteristics and addresses from which the user or user agent (such as a browser) can choose the most appropriate one.
301	Moved Permanently	The requested resource has been assigned a new permanent URI, and the new URI is contained in the response.
302	Found	The requested resource resides temporarily under a different URI.
303	See Other	The response to the request can be found under a different URI, and should be retrieved using a GET or POST method.
304	Not Modified	The requested resource has not been modified. When the server returns this status code, it does not return any resources.
305	Use Proxy	The requested resource must be accessed through a proxy.
306	Unused	The HTTP status code is no longer used.
400	BadRequest	The request is invalid. Do not retry the request before modification.
401	Unauthorized	The status code is returned after the client provides the authentication information, indicating that the authentication information is incorrect or invalid.
402	Payment Required	This status code is reserved for future use.
403	Forbidden	The request has been rejected. The server has received and understood the request; yet it refused to respond, because the request is set to deny access. Do not retry the request before modification.

Status Code	Message	Description
404	NotFound	The requested resource cannot be found. Do not retry the request before modification.
405	MethodNotAllowed	The request contains one or more methods not supported for the resource. Do not retry the request before modification.
406	Not Acceptable	The server cannot fulfill the request according to the content characteristics of the request.
407	Proxy Authentication Required	This status code is similar to 401, but indicates that the client must first authenticate itself with the proxy.
408	Request Time-out	The request timed out. The client may repeat the request without modifications at any time later.
409	Conflict	The request could not be processed due to a conflict with the current state of the resource. This status code indicates that the resource that the client attempts to create already exists, or the requested update failed due to a conflict.
410	Gone	The requested resource is no longer available. The status code indicates that the requested resource has been deleted permanently.
411	Length Required	The server refuses to process the request without a defined Content-Length .
412	Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.
413	Request Entity Too Large	The request is larger than that a server is able to process. The server may close the connection to prevent the client from continuing the request. If the server cannot process the request temporarily, the response will contain a Retry-After header field.

Status Code	Message	Description
414	Request-URI Too Large	The URI provided was too long for the server to process.
415	Unsupported Media Type	The server is unable to process the media format in the request.
416	Requested range not satisfiable	The requested range is invalid.
417	Expectation Failed	The server fails to meet the requirements of the Expect request-header field.
422	UnprocessableEntity	The request is well-formed but is unable to be processed due to semantic errors.
429	TooManyRequests	The client has sent excessive number of requests to the server within a given time (exceeding the limit on the access frequency of the client), or the server has received an excessive number of requests within a given time (beyond its processing capability). In this case, the client should repeat requests after the time specified in the Retry-After header of the response.
500	InternalServerError	The server is able to receive but unable to understand the request.
501	Not Implemented	The server does not support the requested function.
502	Bad Gateway	The server acting as a gateway or proxy has received an invalid request from a remote server.
503	ServiceUnavailable	The requested service is invalid. Do not retry the request before modification.
504	ServerTimeout	The request cannot be fulfilled within a given time. This status code is returned to the client only when the Timeout parameter is specified in the request.
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.

7.2 Error Codes

No data is returned if an API call fails. You can find out the cause of an error using the error code list below. When the API call fails, HTTP status code 4xx or 5xx is returned. The returned message body contains specific error code and error message. If you did not find out the cause of an error, contact the customer service personnel and provide the error code. We will help you solve the problem as soon as possible.

- Example faulty response

```
{
  "error_code": "VIAS.00010006",
  "error_msg": "An internal error occurs.",
  "detail": "Request method 'GET' not supported",
  "params": [],
  "reason": "An internal error occurs.",
  "advice": "An internal error occurs."
}
```

- Parameters

Parameter	Description
error_code	Error code
error_msg	Error message
detail	Error details
params	Related parameters
reason	Causes
advice	Solution

- Error Codes

Status Code	Error Code	Error Message	Description	Solution
400	VIAS.00010001	The parameters are invalid.	The parameters are invalid.	Ensure that the input parameters are valid.
400	VIAS.00010002	The object does not exist.	The object does not exist.	Check the configuration .
400	VIAS.00010003	The object already exists.	The object already exists.	Use or create another object.

Status Code	Error Code	Error Message	Description	Solution
400	VIAS.00010004	The object or parameter is invalid.	The object or parameter is invalid.	Check the format of the object or parameter.
401	VIAS.00010005	Authorization failed.	Authorization failed.	Check whether you have required permissions.
500	VIAS.00010006	An internal error occurs.	An internal error occurs.	Locate the fault based on logs.
400	VIAS.00010007	No task is found based on the task ID.	No task is found based on the task ID.	Check the task ID.
400	VIAS.00010008	No task is found based on the ID.	No task is found based on the ID.	Check the ID.
500	VIAS.00010009	The serviced failed to be accessed. (Internal error)	The serviced failed to be accessed. (Internal error)	Locate the fault based on logs.
400	VIAS.00010010	There is a video source with the same name.	There is a video source with the same name.	Change the video source name.
400	VIAS.00010011	There is a job with the same name.	There is a job with the same name.	Change the job name.
500	VIAS.00010012	This operation is not allowed. (Internal error)	This operation is not allowed. (Internal error)	Locate the fault based on logs.
500	VIAS.00010013	Requests are sent too frequently.	Requests are sent too frequently.	Try again later.

Status Code	Error Code	Error Message	Description	Solution
500	VIAS.00010014	This operation is forbidden. (Internal error)	This operation is forbidden. (Internal error)	Locate the fault based on logs.
500	VIAS.00010015	The resource is not found. (Internal error)	The resource is not found. (Internal error)	Locate the fault based on logs.
500	VIAS.00010016	Dependent services are unavailable. (Internal error)	Dependent services are unavailable. (Internal error)	Check the status of the dependent services.
400	VIAS.00010017	The resource code is duplicate. (Internal error)	The resource code is duplicate. (Internal error)	Locate the fault based on logs.
400	VIAS.00010018	The video source configuration is invalid.	The video source configuration is invalid.	Check whether the parameters are valid.
400	VIAS.00010019	The project ID is invalid.	The project ID is invalid.	Check whether the project ID is correct.
500	VIAS.00010020	An error occurs on the agency client. (Internal error)	An error occurs on the agency client. (Internal error)	Locate the fault based on logs.
401	VIAS.00010021	The account is restricted, frozen, or unauthenticated.	The account is restricted, frozen, or unauthenticated.	Perform real-name authentication.
400	VIAS.00010022	The database entity object is not found. (Internal error)	The database entity object is not found. (Internal error)	Check possible causes of the error.

Status Code	Error Code	Error Message	Description	Solution
500	VIAS.00010023	Token authentication failed or the permission is insufficient. (Internal error)	Token authentication failed or the permission is insufficient. (Internal error)	Check the required permissions.
500	VIAS.00010024	The request is invalid. (Internal error)	The request is invalid. (Internal error)	Check the required permissions.
500	VIAS.00010025	A network error occurs when the dependent service is accessed.	A network error occurs when the dependent service is accessed.	Check the network connection for accessing the dependent service.
500	VIAS.00010026	The internal response body cannot be analyzed. (Internal error)	The internal response body cannot be analyzed. (Internal error)	Check the format of the internal response body.
500	VIAS.00010027	The agency parameters are invalid. (Internal error)	The agency parameters are invalid. (Internal error)	Check the request parameters of the agency operation.
500	VIAS.00010028	An IAM service exception occurs. (Internal error)	An IAM service exception occurs. (Internal error)	Check the status of IAM.
500	VIAS.00010029	The maximum number of agencies has been reached. (Internal error)	The maximum number of agencies has been reached. (Internal error)	Delete other agencies.

Status Code	Error Code	Error Message	Description	Solution
500	VIAS.00010030	The current zone has the same name as the trusted zone. (Internal error)	The current zone has the same name as the trusted zone. (Internal error)	The current zone name must be different from the trusted zone name.
500	VIAS.00010031	The agency is not found. (Internal error)	The agency is not found. (Internal error)	Locate the fault based on logs.
500	VIAS.00010032	The trusted zone name is incorrect. (Internal error)	The trusted zone name is incorrect. (Internal error)	Check the trusted zone parameters.
500	VIAS.00010033	Deleting the agency failed. (Internal error)	Deleting the agency failed. (Internal error)	Check the operation on the database table.
500	VIAS.00010034	Updating the agency failed. (Internal error)	Updating the agency failed. (Internal error)	Check the operation on the database table.
500	VIAS.00010035	An agency with the same name already exists. (Internal error)	An agency with the same name already exists. (Internal error)	Ignore the error or create another agency.
500	VIAS.00010036	An interrupt exception occurs when the IAM API is called. (Internal error)	An interrupt exception occurs when the IAM API is called. (Internal error)	Check the request.

Status Code	Error Code	Error Message	Description	Solution
500	VIAS.00010037	An exception occurs when the IAM API is called. (Internal error)	An exception occurs when the IAM API is called. (Internal error)	Check the request.
500	VIAS.00010038	The request body for calling the IAM API is invalid. (Internal error)	The request body for calling the IAM API is invalid. (Internal error)	Check the request body.
500	VIAS.00010039	Failed to verify the image repository. (Internal error)	Failed to verify the image repository. (Internal error)	Check whether the internal token is obtained.
400	VIAS.00010040	The account type is not supported.	The account type is not supported.	Use an account other than the op_svc account.
400	VIAS.0010045	The OBS object does not exist.	The OBS object does not exist.	Select an existing OBS object.
400	VIAS.0010046	IVM has not been enabled.	IVM has not been enabled.	Enable IVM.
400	VIAS.0010047	The maximum number of video sources has been reached.	The maximum number of video sources has been reached.	Contact the administrator to adjust the quota.
400	VIAS.0010048	The maximum number of tasks has been reached.	The maximum number of tasks has been reached.	Contact the administrator to adjust the quota.

Status Code	Error Code	Error Message	Description	Solution
400	VIAS.00010050	Pool quota exceeds the upper limit.	The number of created resource pools has reached the upper limit.	Purchase more licenses or delete idle resource pools.
400	VIAS.00010051	do not match unique constraint.	Uniqueness verification failed.	Check that the parameter is unique.

7.3 Obtaining the Project ID, Account Name, and AK/SK

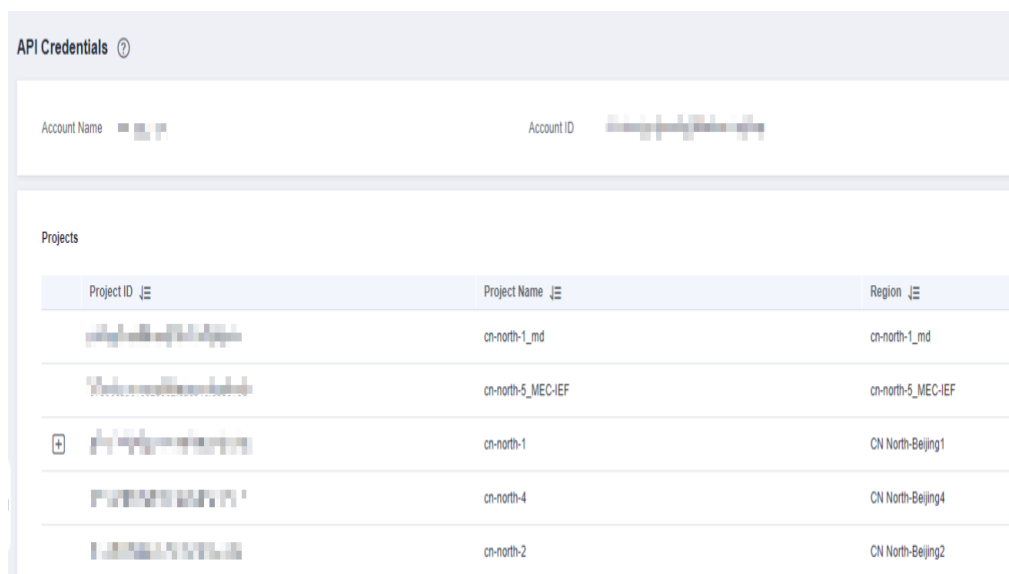
- In **Authentication**, you need to enter the account name, username, or AK/SK.
- A project ID is required for some URLs when an API is called.

This topic uses the procedure for obtaining a project ID as an example.

Procedure

1. Log in to **the management console**.
2. In the upper right corner of the page, click the username and choose **My Credentials** from the drop-down list.
3. On the **API Credentials** page, view the username, account name, and project ID.

Figure 7-1 Viewing username, account name, and project ID



4. Click **Access Keys** to view the added access keys (AKs).

- If no AK is available, click **Create Access Key** to add one.
- If you have generated the AK/SK, find the AK/SK file you downloaded. Generally, the file name is **credentials.csv**.