Content Moderation

API Reference

Issue 01

Date 2025-07-02

Huawei Technologies Co., Ltd.

Security Declaration

Vulnerability

Huawei's regulations on product vulnerability management are subject to the *Vul. Response Process.* For details about this process, visit the following web page:
https://www.huawei.com/en/psirt/vul-response-process
For vulnerability information, enterprise customers can visit the following web page:
https://securitybulletin.huawei.com/enterprise/en/security-advisory

Contents

1 Before You Start

1.1 Overview

Content Moderation adopts image, audio, video, audio stream, and text detection technologies that detect pornography and violence-related materials. This reduces potential business risks.

Content Moderation provides services through open application programming interfaces (APIs). You can obtain the inference result by calling APIs. It helps you collect key data automatically and build an intelligent service system, and improves service efficiency.

You can perform related operations based on the API description, syntax, parameter description, and examples provided in this document. For details about all supported operations, see **API Overview**.

Before using Content Moderation APIs, ensure that you are familiar with Content Moderation concepts. For details, see the **Content Moderation Service Overview**.

1.2 API Calling

Content Moderation supports Representational State Transfer (REST) APIs, allowing you to call APIs using HTTPS.

For more information, see **Calling APIs**.

Additionally, Content Moderation offers software development kits (SDKs) for multiple programming languages. For details about how to use the SDK, see **HUAWEI CLOUD SDKs**.

1.3 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**.

1.4 Notes and Constraints

- There are some notes and constraints on using this service.
- Learning about these notes and constraints helps you better use this service.
- For details, see the API description and **Constraints** in the *Content Moderation Service Overview*.

1.5 Basic Concepts

- Account

  An account is generated after you register with HUAWEI CLOUD. An account has full access permissions for all the resources and cloud services under the account. It can reset user passwords and grant users permissions. The account is a payment entity, which should not be used directly to perform routine management. To ensure account security, create IAM users and grant them permissions for routine management.

- User

  A user is created in IAM using 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 console. The account name, username, and password are required for API authentication.

- Region

  A region is a physical location where cloud resources are deployed. Availability zones (AZs) in the same region can communicate with each other over an intranet but AZs in different regions cannot communicate with each other. Deploying cloud resources in different regions can better suit certain user requirements or comply with local laws or regulations.

- Availability Zone (AZ)

  An AZ comprises of one or more physical data centers equipped with independent ventilation, fire, water, and electricity facilities. Computing, network, storage, and other resources in an AZ 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.

2 API Overview

Content Moderation provides Huawei-developed APIs, including **Text Moderation**, **Image Moderation**, **Audio Moderation**, **Audio Stream Moderation**, and **Video Moderation**. You can use Content Moderation by calling these APIs.

Moderation (Text)

Table 2-1 API description

API	Description
Text Moderation	Moderation (Text) analyzes and identifies whether the uploaded text contains pornographic elements, and returns the result to you.

Moderation (Image)

Table 2-2 API description

API	Description
Image Moderation	This API analyzes and identifies whether the uploaded images contain pornographic elements or terrorism-related content, and returns the result to you.

Audio Moderation

Table 2-3 API description

API	Description
Creating an Audio Moderation Job	This API is used to create an audio content moderation job. After the job is successfully created, the job ID is returned to you.
Querying an Audio Content Moderation Job	This API is used to query the processing status and result of an audio review job and return the recognition result to you.

Video Content Moderation

Table 2-4 API description

API	Description
Creating a Video Moderation Job	This API is used to create a video moderation job. After the job is successfully created, the job ID is returned to you.
Querying a Video Moderation Job	This API is used to query the processing status and result of a video moderation job and return the recognition result to you.

Audio Stream Moderation

Table 2-5 API description

API	Description
Creating an Audio Stream Moderation Job	This API is used to create an audio stream moderation job. After the job is created, the job ID is returned.
Stopping an Audio Stream Moderation Job	This API is used to stop an audio stream moderation job and return the recognition result to you.

3 Calling APIs

3.1 Subscribing to a Service

Before using any service of Content Moderation, you must subscribe to it. For details about how to subscribe to a service, see **Subscribing to the Service**.

📖 **NOTE**

- If you use any service of Content Moderation for the first time, subscribe to it first. You only need to subscribe to a service once.
- This service is available only to enterprise users currently.

3.2 Making an API Request

This section describes the structure of a REST API, and uses the IAM API for **obtaining a user token** as an example to demonstrate how to call an API. The obtained token is used to authenticate the calling of other APIs.

Request URI

A request URI is in the following format:

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

Although a request URI is included in a request header, most programming languages or frameworks require the request URI to be separately transmitted, rather than being conveyed in a request message.

Table 3-1 URI parameter description
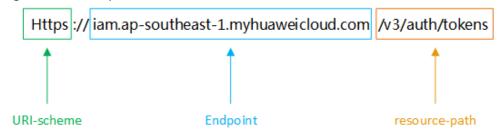
Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.

Parameter	Description
Endpoint	Domain name or IP address of the server bearing the REST service endpoint. Obtain the value from **Endpoints**. For example, the endpoint of IAM in the **CN-Hong Kong** region is **iam.ap-southeast-1.myhuaweicloud.com**.
resource-path	Resource path, that is, API access path. Obtain the value from the URI of an API. For example, the **resource-path** of the API used to obtain a user token is **/v3/auth/tokens**.
query-string	(Optional) Query parameter. Not all APIs have a query parameter. 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 pieces of data is to be viewed.

For example, to obtain the IAM token in region **CN-Hong Kong**, obtain the endpoint (**iam.ap-southeast-1.myhuaweicloud.com**) of this region and **resource-path** (**/v3/auth/tokens**) in the URI of the API for **obtaining a user token**. Then, assemble the fields as follows:

https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens

Figure 3-1 Example URI

□ NOTE

To simplify the URI display in this document, each API is provided only with 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

The HTTP protocol defines the following request methods that can be used to send a request to the server:

Table 3-2 HTTP-defined request 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	Same as GET except that the server must return only the response header.
PATCH	Requests the server to update partial content of a specified resource. If the resource does not exist, a new resource will be created.

In the case of the API used to **obtain a user token**, the request method is POST. The request is as follows:

POST https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens

Request Header

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

Common request header fields are as follows:

Table 3-3 Common request header fields

Parameter	Description	Mandatory	Example
X-Sdk-Date	Time when a request is sent, in $YYYYMMDD$**T'**$HHMMSS$**Z'** format. The value is the current Greenwich Mean Time (GMT) of the system.	No This field is mandatory for AK/SK-based authentication.	20150907T101459Z

Paramet er	Description	Mandatory	Example
Authoriz ation	Signature authentication information. The value can be obtained from the request signing result.	No This field is mandatory for AK/SK-based authentication.	SDK-HMAC-SHA256 Credential=ZIRRKMTWPT QFQI1WKNKB/ 20150907//ec2/ sdk_request, SignedHeaders=content-type;host;x-sdk-date, Signature=55741b610f3c 9fa3ae40b5a8021ebf7eb c2a28a603fc62d25cb3bfe 6608e1994
Host	Requested server information, which can be obtained from the URL of a service API. The value is in *hostname[:port]* format. If the port number is not specified, the default port is used. The default port number for **https** is **443**.	No This field is mandatory for AK/SK-based authentication.	code.test.com or code.test.com:443
Content-Type	MIME type of the request body	Yes	application/json
Content-Length	Length of the request body. The unit is byte.	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	e9993fc787d94b6c886cb aa340f9c0f4
X-Auth-Token	User token	No This field is mandatory for token-based authentication.	-

 NOTE

> In addition to supporting authentication using tokens, public cloud APIs support authentication using the AK/SK. During AK/SK-based authentication, an SDK is used to sign the request, and the **Authorization** (signature information) and **X-Sdk-Date** (time when the request is sent) header fields are automatically added to the request. For more information about authentication using the AK/SK, see the **API Request Signing Guide**.
>
> For details about other fields in the header, see the HTTPS protocol documentation.

The API used to **obtain a user token** does not require authentication. Therefore, only the **Content-Type** field needs to be added to requests for calling the API. An example of such requests is as follows:

```
POST https://iam.ap-southeast-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 the **Content-Type** header field. The request body transfers content except 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 a sample request with the body included. Set the username (**username**), account name (**domainname**), login password (************), and project name (**xxxxxx**). To learn how to obtain these values, see **Obtaining Account, IAM User, and Project Information**.

 NOTE

> The **scope** parameter specifies where a token takes effect. You can set **scope** to an account or a project under an account. In the following example, the token takes effect only for the resources in a specified project. For more information about this API, see **Obtaining a User Token**.

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

{
   "auth": {
      "identity": {
         "methods": [
            "password"
         ],
         "password": {
            "user": {
               "name": "username",
               "password": "********",
               "domain": {
                  "name": "domainname"
               }
            }
         }
      },
      "scope": {
         "project": {
            "name": "xxxxxx"
         }
```

```
      }
   }
}
```

If all data required for the API request is available, you can send the request to call the API through **curl**, **Postman**, or coding. 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.

3.3 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 authenticated by encrypting the request body using an AK/SK pair.

Token-based Authentication

📖 **NOTE**

> The validity period of a token is 24 hours. When using a token for authentication, cache it to prevent frequently calling the IAM API used to obtain a user token.

A token specifies certain permissions in a computer system. During API authentication using a token, the token is added to requests 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**.

For details about how to obtain *username* and *domainname* , see **Obtaining the Account Name and Account ID**. *password* indicates the user password.

```
{
   "auth": {
      "identity": {
         "methods": [
            "password"
         ],
         "password": {
            "user": {
               "name": "username",
               "password": "********",
               "domain": {
                  "name": "domainname"
               }
            }
         }
      },
      "scope": {
         "project": {
            "name": "xxxxxxxx"
         }
      }
   }
}
```

After a token is obtained, the **X-Auth-Token** header field must be added to requests to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, **X-Auth-Token: ABCDEFJ....** can be added to a request as follows:

```
POST https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
X-Auth-Token: ABCDEFJ....
```

AK/SK-based Authentication

📖 **NOTE**

> AK/SK-based authentication and token-based authentication apply only to requests whose body size is less than 12 MB.

In AK/SK-based authentication, 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 authentication using the AK/SK, you can use the AK/SK to sign requests based on the signature algorithm or use a dedicated signature SDK to sign the requests. For details about how to sign requests and use the signature SDK, see **API Request Signing Guide**.

NOTICE

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

3.4 Returned Result

Status Code

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

A status code is a group of digits ranging from 1xx to 5xx. It indicates the status of a response. For more information, see **Status Codes**.

If status code **201** is returned for the calling of the API for **obtaining a user token**, the request is successful.

Response Header

A response header corresponds to a request header, for example, **Content-type**.

Table 3-4 Response header

Parameter	Description
Content-Length	Length of the response body. The unit is byte.

Parameter	Description
Date	Time when a response is returned.
Content-Type	MIME type of the response body.

For the response header for the API of **obtaining a user token**, **x-subject-token** is the desired user token. See **Figure 3-2**. Then, you can use the token to authenticate the calling of other APIs.

Figure 3-2 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
→ MIIYXQYJKoZIhvcNAQcCoIIYTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZXhwaXJlc19hdCI6IjIwMTktMDItMTNUMD
fj3KJs6YgKnpVNRbW2eZ5eb78SZOkqjACgkIqO1wi4JIGzrpd18LGXK5txldfq4lqHCYb8P4NaY0NYejcAgzJVeFIYtLWT1GSO0zxKZmIQHQj82HBqHdgIZO9fuEbL5dMhdavj+33wEI
xHRCE9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXI1jipPEGA270g1FruooL6jqgIFkNPQuFSOU8+uSsttVwRtNfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUbpvGw-oPNFYxJECKnoH3HRozv0vN--n5d6Nbxg==

x-xss-protection → 1; mode=block;

Response Body

A response body is generally returned in a structured format, corresponding to **Content-Type** in the response header, and is used to transfer content other than the response header.

The following shows part of the response body for the API to **obtain a user token**.

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

If an error occurs during API calling, the system returns an error code and a message to you. The following shows the format of an error response body:

```
{
   "error_msg": "The format of message is error",
```

```
    "error_code": "AS.0001"
}
```

In the response body, **error_code** is an error code, and **error_msg** provides information about the error.

4 APIs

4.1 Text Moderation

4.1.1 Text Moderation (V3)

Function

Moderation (Text) analyzes and identifies whether the uploaded text contains sensitive information and returns the result to you.

☐ **NOTE**

1. Currently, only Chinese content moderation is supported.
2. By default, the maximum number of concurrent API calls is 50. To increase concurrency, contact Huawei technical support.

Prerequisites

Before using Text Moderation, you need to apply for the service and complete authentication. For details, see **Getting Started with Moderation (Text)**.

URI

POST /v3/{project_id}/moderation/text

Table 4-1 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID.

Request Parameters

Table 4-2 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token Used to obtain the permission to operate APIs. For details about how to obtain the token, see **Authentication**. The value of X-Subject-Token in the response header is the token.
Enterprise-Project-Id	No	String	Enterprise project ID. Content Moderation allows you to use Enterprise Project Management Service (EPS) to split fees for resources used by different user groups and users. To obtain the enterprise project ID, go to the Enterprise Project Management console, click the enterprise project name, and obtain the enterprise project ID on the enterprise project details page. For how to create an enterprise project, see *Content Moderation User Guide*. After an enterprise project is created, parameter transfer involves the following scenarios: • If a correct enterprise project ID is carried and Content Moderation can be used properly, the bills will be categorized under the corresponding enterprise project for that ID. • If an enterprise project ID that is in the correct format but does not actually exist is carried, and Content Moderation can be used properly, the bills will display the corresponding non-existent enterprise project ID. • If no enterprise project ID or an enterprise project ID with incorrect format (such as special characters) is carried, and Content Moderation can be used properly, the bills will be categorized under **default**.

Table 4-3 Request body parameters

Parameter	Mandatory	Type	Description
event_type	No	String	Event type. Value options are as follows: ● **nickname** ● **title** ● **article** ● **comment** ● **barrage** ● **search** ● **profile**
glossary_names	No	Array of strings	Custom blacklist dictionaries used for detection **NOTE** For details about how to create and use a custom blacklist dictionary, see **Configuring Custom Dictionaries**.
white_glossary_names	No	Array of strings	Custom whitelist dictionaries used for detection **NOTE** For details about how to create and use a custom whitelist dictionary, see **Configuring Custom Dictionaries**.
categories	No	Array of strings	Text moderation scenarios. The options are as follows: ● **terrorism** ● **porn** ● **ban** ● **abuse** ● **ad** If this parameter is not specified, all moderation scenarios are included.
data	Yes	**TextDetectionDataReq** object	Data to be moderated

Table 4-4 TextDetectionDataReq

Paramete r	Mandatory	Type	Description
text	Yes	String	Text to be detected. The text is encoded using UTF-8. A maximum of 10,000 characters are allowed. If the text contains more than 10,000 characters, only the first 10,000 characters are detected. Minimum length: **1** Maximum length: **10000**
language	No	String	Supported text language. The options are as follows: **zh**: Chinese **en**: English **ar**: Arabic **hi**: Hindi **es**: Spanish **fr**: French **ru**: Russian **pt**: Portuguese **id**: Indonesian **de**: German **ja**: Japanese **tr**: Turkish **vi**: Vietnamese **it**: Italian **th**: Thai **tl**: Filipino **ko**: Korean **ms**: Malay **auto**: The language type is automatically identified. The default value is **zh**. The recommended value is **auto**, indicating that the system automatically detects the language type.

Response Parameters

Status code: 200

Table 4-5 Response body parameters

Parameter	Type	Description
request_id	String	Unique ID of the request, which is used for troubleshooting. You are advised to save the ID. Minimum length: **2** Maximum length: **64**
result	**TextDetectionResult** object	Calling result of a successful API call This parameter is not included for a failed call.

Table 4-6 TextDetectionResult

Parameter	Type	Description
suggestion	String	Whether the text passes the check. **block**: The text contains sensitive information and fails to pass the check. **pass**: The text does not contain sensitive information and passes the check. **review**: The text needs to be manually reviewed.
label	String	Label of the detection result. The value can be: ● **terrorism**: terrorism-related information ● **porn**: pornographic information ● **ban**: banned information ● **abuse**: abuse ● **customized**: hit keywords in the custom dictionary
details	Array of **TextDetectionResultDetail** objects	Detection details

Table 4-7 TextDetectionResultDetail

Parameter	Type	Description
suggestion	String	Whether the text passes the check. **block**: The text contains sensitive information and fails to pass the check. **pass**: The text does not contain sensitive information and passes the check. **review**: The text needs to be manually reviewed.
label	String	Label of the detection result. The value can be: • **terrorism**: terrorism-related information • **porn**: pornographic information • **ban**: banned information • **abuse**: abuse • **customized**: hit keywords in the custom dictionary
confidence	Float	Confidence. The value ranges from 0 to 1. A larger value indicates a higher confidence.
segments	Array of **Segment** objects	Hit risky segments. If a semantic algorithm model is hit, an empty list is returned.

Table 4-8 Segment

Parameter	Type	Description
segment	String	Hit risk segment
glossary_name	String	Name of the hit custom word dictionary. This field is returned only when a custom word dictionary is hit.
position	Array of integers	Position of the hit risky segment in the text. The position starts from **0**.

Status code: 400

Table 4-9 Response body parameters

Paramet er	Type	Description
error_cod e	String	Error code of a failed API call. For details, see **Error Codes**. This parameter is not included when the API is successfully called.
error_ms g	String	Error message of a failed API call. This parameter is not included when the API is successfully called.

Example Request

 NOTE

> **endpoint** is the request URL for calling an API. Endpoints vary depending on services and regions. For details, see **Endpoints**.
>
> For example, if the service is deployed in the **CN North-Beijing4** region, the endpoint is **moderation.cn-north-4.myhuaweicloud.com** and the request URL is **https:// moderation.cn-north-4.myhuaweicloud.com/v3/{project_id}/moderation/text**. For details about how to obtain the project ID, see **Obtaining a Project ID**.

- The following is an example request for checking whether the text contains sensitive content. The event type is **comment** and the detection text is **asdfasdfasdf**.

```
POST https://{endpoint}/v3/{project_id}/moderation/text
{
  "event_type" : "comment",
  "data" : {
    "text" : "asdfasdfasdf"
  }
}
```

Example Response

Status code: 200

Example response for a successful request

```
{
   "request_id": "c43f23455e3f63f12c2b65cd93e72327",
   "result": {
      "details": [
         {
            "confidence": 0.85339344,
            "label": "porn",
            "segments": [],
            "suggestion": "block"
         }
      ],
      "label": "porn",
      "suggestion": "block"
   }
}
```

Status code: 400

Example failed response

```
{
"error_code" : "AIS.0011",
"error_msg" : "Lack the request parameter, or the request parameter is empty."
}
```

Status Codes

Status Code	Description
200	Example of a successful response
400	Example of a failed response

Error Codes

For details, see **Error Codes**.

4.2 Image Moderation

4.2.1 Image Moderation (V3)

Function

This API analyzes and identifies whether the uploaded images contain pornographic elements or terrorism-related content, and returns the result to you.

URI

POST /v3/{project_id}/moderation/image

Table 4-10 Path parameters

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

Request Parameters

Table 4-11 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token It is used to obtain the permission to call APIs. For details about how to obtain the token, see **Authentication**. The value of X-Subject-Token in the response header is the token.
Enterprise-Project-Id	No	String	Enterprise project ID. Moderation allows you to use Enterprise Project Management Service (EPS) to split fees for resources used by different user groups and users. To obtain the enterprise project ID, go to the Enterprise Project Management console, click the enterprise project name, and obtain the enterprise project ID on the enterprise project details page. For how to create an enterprise project, see *Content Moderation User Guide*. After an enterprise project is created, parameter transfer involves the following scenarios: ● If a correct enterprise project ID is carried and Content Moderation can be used properly, the bills will be categorized under the corresponding enterprise project for that ID. ● If an enterprise project ID that is in the correct format but does not actually exist is carried, and Content Moderation can be used properly, the bills will display the corresponding non-existent enterprise project ID. ● If no enterprise project ID or an enterprise project ID with incorrect format (such as special characters) is carried, and Content Moderation can be used properly, the bills will be categorized under **default**.

Table 4-12 Request body parameters

Parameter	Mandatory	Type	Description
event_type	No	String	Event type. The options are as follows: • **head_image**: avatar • **album**: album • **dynamic**: story • **article**: post • **comment**: comment • **room_cover**: room cover • **group_message**: group chat image • **message**: private chat image • **product**: product image **NOTE** • A group chat image contains chat messages of multiple people. • The event types are preset business scenarios. (Some scenarios may not be intercepted.) 1. If you have special moderation requirements, contact us for adjustment by submitting a **service ticket**.
categories	No	Array of strings	Detection scenario. The following scenarios are supported: • **terrorism**: terrorism-related elements • **porn**: pornographic elements • **image_text**: advertisement in images and text You can set the parameter to the preceding values to check the corresponding elements. **NOTE** The number of detection times in each scenario is calculated by category.
url	No	String	Configure either this parameter or **image**. Image URL. Internet HTTP and HTTPS URLs are supported.

Parameter	Mandatory	Type	Description
image	No	String	Configure either this parameter or **url**. Base64-encoded string of the image file, which cannot be larger than 10 MB. The image cannot exceed 20 x 20 pixels. JPG, PNG, JPEG, WEBP, GIF, TIFF, TIF, and HEIF formats are supported.
language	No	String	Language of the text in the image, which can be Chinese (**zh**), English (**en**), or Arabic (**ar**). The default value is **zh**.

Response Parameters

Status code: 200

Table 4-13 Response body parameters

Parameter	Type	Description
request_id	String	Unique ID of the request, which is used for troubleshooting. You are advised to save the ID. Minimum length: 2 Maximum length: 64
result	**ImageDetectionResult** object	Calling result of a successful API call. This parameter is not included when the API fails to be called.

Table 4-14 ImageDetectionResult

Parameter	Type	Description
suggestion	String	Whether the image passes the check ● **block**: The image contains sensitive information and fails to pass the check. ● **pass**: The image does not contain sensitive information and passes the check. ● **review**: The image needs to be manually reviewed.

Parameter	Type	Description
category	String	Level-1 label of the detection result. The following categories are supported: • **terrorism**: terrorism-related information • **porn**: pornographic information • **image_text**: image and text
details	Array of **ImageDetectionResultDetail** objects	Detection details

Table 4-15 ImageDetectionResultDetail

Parameter	Type	Description
suggestion	String	Whether the image passes the check • **block**: The image contains sensitive information and fails to pass the check. • **pass**: The image does not contain sensitive information and passes the check. • **review**: The image needs to be manually reviewed.
category	String	Level-1 label of the detection result. The following categories are supported: • **terrorism**: terrorism-related information • **porn**: pornographic information • **image_text**: image and text
confidence	Float	Confidence. The value ranges from 0 to 1. A larger value indicates a higher confidence.
face_location	**FaceLocationDetail** object	Face location. It is an array that has four values, indicating the coordinates of the upper left corner and lower right corner, respectively. For example, in the value **[207,522,340,567]**, **207** indicates the horizontal coordinate of the upper left corner, **522** indicates the vertical coordinate of the upper left corner, **340** indicates the horizontal coordinate of the lower right corner, and **567** indicates the vertical coordinate of the lower right corner.
label	String	Detected label

Table 4-16 FaceLocationDetail

Parameter	Type	Description
top_left_x	Integer	Horizontal coordinate of the upper left corner of detected face
top_left_y	Integer	Vertical coordinate of the upper left corner of detected face
bottom_right_x	Integer	Horizontal coordinate of the lower right corner of detected face
bottom_right_y	Integer	Vertical coordinate of the lower right corner of detected face

Status code: 400

Table 4-17 Response body parameters

Parameter	Type	Description
error_code	String	Error code of a failed API call. For details, see Error Codes. This parameter is not included when the API is successfully called. Minimum length: 8 Maximum length: 36
error_msg	String	Error message of a failed API call. This parameter is not included when the API is successfully called. Minimum length: 2 Maximum length: 512

Example Request

📖 **NOTE**

endpoint is the request URL for calling an API. Endpoints vary depending on services and regions. For details, see **Endpoints**.

For example, if the service is deployed in the **CN North-Beijing4** region, the endpoint is **moderation.cn-north-4.myhuaweicloud.com** and the request URL is **https://moderation.cn-north-4.myhuaweicloud.com/v3/{project_id}/moderation/image**. For details about how to obtain the project ID, see **Obtaining a Project ID**.

- Use the Base64 code of an image to check whether the image contains sensitive information. Set **event_type** to **head_image** and **categories** to **porn** and **terrorism**.
  ```
  POST https://{endpoint}/v3/{project_id}/moderation/image

  {
  ```

```
    "event_type" : "head_image",
    "image" : "/9j/4AAQSkZJRgABAgEASABIAAD/
4RFZRXhpZgAATU0AKgAAAgABwESAAMAAAABAAEAAAEaAAUAAAABAAAAYgEbAAUAAAABAAAA...",
    "categories" : [ "porn", "terrorism" ]
}
```

- Use the URL an image to check whether the image contains sensitive information. Set **event_type** to **head_image** and **categories** to **porn** and **terrorism**.
  POST https://{endpoint}/v3/{project_id}/moderation/image

```
{
  "event_type" : "head_image",
  "url" : "https://bucketname.obs.myhwclouds.com/ObjectName1",
  "categories" : [ "porn", "terrorism" ]
}
```

Example Response

Status code: 200

Example successful response

```
{
  "request_id" : "53f9719c3730d1169e47403d5c8a9473",
  "result" : {
    "category" : "porn",
    "details" : [ {
      "category" : "porn",
      "confidence" : 0.9934315,
      "label" : "sexy_female",
      "suggestion" : "review"
    }, {
      "category" : "porn",
      "confidence" : 0.99798274,
      "label" : "intimacy",
      "suggestion" : "review"
    } ],
    "suggestion" : "review"
  }
}
```

Status code: 400

Example failed response

```
{
  "error_code" : "AIS.0402",
  "error_msg" : "The image format is not supported."
}
```

Status Codes

Status Code	Description
200	Example of a successful response
400	Example of a failed response

4.3 Audio Moderation

4.3.1 Creating an Audio Moderation Job

Function

This API is used to create an audio moderation job. After the job is created, the job ID is returned.

URI

POST /v3/{project_id}/moderation/audio/jobs

Table 4-18 Path parameters

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

Request Parameters

Table 4-19 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token, which can be obtained by calling the IAM API (The token is the value of **X-Subject-Token** in the response header.)

Table 4-20 Request body parameters

Parameter	Mandatory	Type	Description
data	Yes	**AudioInputBody** object	Audio data input

Parameter	Mandatory	Type	Description
event_type	No	String	Event type. The options are as follows: • **default**: default event • **audiobook**: audio book • **education**: educational audio • **game**: game voice room • **live**: livestream fashion show • **ecommerce**: livestream e-commerce • **voiceroom**: dating voice room • **private**: private voice chat
categories	No	Array of strings	Types of risks to be detected. The list cannot be empty. The risk types are as follows: • **porn** • **ad** • **moan** • **abuse**

Parameter	Mandatory	Type	Description
callback	No	String	If this field is not empty, the callback will be invoked to send the detection result to your URL. If this field is empty, you need to perform polling periodically to obtain the detection result. **NOTE** 1. Your callback interface must support the POST method. 2. For details about the callback data format, see the **example response for the API used to query an audio moderation job**. 3. If the callback interface of your server returns HTTP status code 200 within three seconds after receiving the result from the content security service, the result is successfully received. If another HTTP status code is returned or no status code is returned within three seconds, the result fails to be received. In this case, the content security service will send the detection result repeatedly.
seed	No	String	Used to verify the requests initiated by Huawei Cloud content security service during callback notifications. You can customize it. The value is a random string that contains a maximum of 64 characters, including letters, digits, and underscores (_). **NOTE** If **seed** is not empty, **headers** contains the **X-Auth-Signature** field. The field value is generated using the HMAC-SHA256 algorithm. The string to be encrypted is composed of **create_time**, **job_id**, **request_id**, and **seed** in sequence. The key is **seed**.

Table 4-21 AudioInputBody

Parameter	Mandatory	Type	Description
url	Yes	String	Audio URL
language	No	String	Supported audio language. The options are as follows: ● **zh**: Chinese (default value) ● **en**: English ● **ar**: Arabic

Response Parameters

Status code: 200

Table 4-22 Response body parameters

Parameter	Type	Description
request_id	String	Unique ID of the request, which is used for troubleshooting. You are advised to save the ID. Minimum length: 2 Maximum length: 64
job_id	String	Unique job ID

Status code: 400

Table 4-23 Response body parameters

Parameter	Type	Description
error_code	String	Error code of a failed API call. For details, see **Error Codes**. This parameter is not included when the API is successfully called.
error_msg	String	Error message of a failed API call. This parameter is not included when the API is successfully called.

Example Request

📖 NOTE

endpoint is the request URL for calling an API. Endpoints vary depending on services and regions. For details, see **Endpoints**.

For example, if the service is deployed in the **CN North-Beijing4** region, the endpoint is **moderation.cn-north-4.myhuaweicloud.com** and the request URL is **https://moderation.cn-north-4.myhuaweicloud.com/v3/{project_id}/moderation/audio/jobs**. For details about how to obtain the project ID, see **Obtaining a Project ID**.

Create a default audio moderation job with **event_type** set to **default** to detect pornographic content and advertisements.

```
POST https://{endpoint}/v3/{project_id}/moderation/audio/jobs

{
  "data" : {
    "url" : "https://xxxxx.wav"
  },
  "event_type" : "default",
  "categories" : [ "porn", "ad" ],
  "callback" : "http://xxxx"
}
```

Example Response

Status code: 200

Example of a successful response

```
{
  "job_id" : "01661356800_7c0fe871f80543358917e4faebca4a48",
  "request_id" : "07490f57ac5e034c077ab25b5f9e1da5"
}
```

Status code: 400

Example of a failed response

```
{
    "error_code": "AIS.0401",
    "error_msg": "The input parameter event_type is incorrect."
}
```

Status Codes

Status Code	Description
200	Example of a successful response
400	Example of a failed response

Error Codes

For details, see **Error Codes**.

4.3.2 Querying an Audio Moderation Job

Function

This API is used to query the processing status and result of an audio review job and return the recognition result to you.

URI

GET /v3/{project_id}/moderation/audio/jobs/{job_id}

Table 4-24 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID, see **Obtaining a Project ID**.
job_id	Yes	String	Job ID returned when a job is created

Request Parameters

Table 4-25 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token, which can be obtained by calling the IAM API (The token is the value of **X-Subject-Token** in the response header.)

Response Parameters

Status code: 200

Table 4-26 Response body parameters

Parameter	Type	Description
job_id	String	Job ID

Parameter	Type	Description
status	String	Job status. The options are as follows: • **running**: The job is running. • **succeeded**: The job was executed successfully. • **failed**: The job failed.
result	**result** object	Job review result. This parameter is available when the job status is **succeeded**.
request_params	**request_params** object	Parameters for creating the job
create_time	String	Time when the job was created
update_time	String	Time when the job was updated
request_id	String	Unique ID of the request, which is used for troubleshooting. You are advised to save the ID. Minimum length: 2 Maximum length: 64

Table 4-27 result

Parameter	Type	Description
suggestion	String	Whether the audio clip passes the check • **block**: It contain sensitive information and fail to pass the check. • **pass**: It does not contain sensitive information and passes the check. • **review**: It need to be manually reviewed.
details	Array of **details** objects	Review details
audio_text	String	Audio text

Table 4-28 details

Parameter	Type	Description
start_time	Float	Start time of the audio clip

Parameter	Type	Description
suggestion	String	Suggestion for moderating the audio clip • **block**: It contain sensitive information and fail to pass the check. • **review**: It need to be manually reviewed.
end_time	Float	End time of the audio clip
label	String	Audio clip label. The options are as follows: • **terrorism**: terrorism-related information • **porn**: pornographic information • **ban**: banned information • **abuse**: abuse • **ad**: advertisement • **moan**: moan • **meaningless**: meaningless information
audio_text	String	Text of the audio clip
segments	Array of **segments** objects	List of hit risk segments. This field is unavailable if semantic algorithm models are hit.

Table 4-29 segments

Parameter	Type	Description
segment	String	Hit risk segment

Table 4-30 request_params

Parameter	Type	Description
event_type	String	Parameter **event_type** for creating the job
data	**data** object	Parameter **data** for creating the job
callback	String	Parameter **callback** for creating the job
categories	Array of strings	Parameter **categories** for creating the job

Table 4-31 data

Parameter	Type	Description
url	String	Parameter **url** for creating the job

Status code: 400

Table 4-32 Response body parameters

Parameter	Type	Description
error_code	String	Error code of a failed API call. For details, see **Error Codes**. This parameter is not included when the API is successfully called.
error_msg	String	Error message of a failed API call. This parameter is not included when the API is successfully called.

Example Request

📖 **NOTE**

endpoint is the request URL for calling an API. Endpoints vary depending on services and regions. For details, see **Endpoints**.

For example, if the service is deployed in the **CN North-Beijing4** region, the endpoint is **moderation.cn-north-4.myhuaweicloud.com** and the request URL is **https://moderation.cn-north-4.myhuaweicloud.com/v3/{project_id}/moderation/audio/jobs/{job_id}**. For details about how to obtain the project ID, see **Obtaining a Project ID**. **job_id** is the job ID returned when the job is created successfully.

```
GET https://{endpoint}/v3/{project_id}/moderation/audio/jobs/{job_id}
```

Example Response

Status code: 200

Job status and result returned when the query is successful

```
{
 "job_id" : "01655654400_ad96b30f58cc40e8968e53f1f1e80021",
 "status" : "succeeded",
 "result" : {
   "suggestion" : "block",
   "details" : [ {
     "start_time" : 0,
     "suggestion" : "block",
     "end_time" : 10,
     "label" : "porn",
     "audio_text" : "xxxx",
     "segments" : [ {
       "segment" : "xxx"
     }, {
       "segment" : "xxx"
```

```
    }, {
      "segment" : "xxx"
    } ]
  }, {
    "start_time" : 30,
    "suggestion" : "block",
    "end_time" : 40,
    "label" : "porn",
    "audio_text" : "xxx",
    "segments" : [ {
      "segment" : "xx"
    } ]
  } ],
  "audio_text" : "xxxxxx"
},
"request_params" : {
  "event_type" : "default",
  "data" : {
    "url" : "https://xxxx.wav"
  },
  "callback" : "http://xxx",
  "categories" : [ "porn", "ad" ]
},
"create_time" : "2022-06-20 11:05:29",
"update_time" : "2022-06-20 11:07:08",
"request_id" : "2419446b1fe14203f64e4018d12db3dd"
}
```

Status code: 400

Error cause returned when the query fails

```
{
  "error_code" : "AIS.0030",
  "error_msg" : "Job not found"
}
```

Status Codes

Status Code	Description
200	Example of a successful response
400	Example of a failed response

Error Codes

For details, see **Error Codes**.

4.4 Video Moderation

4.4.1 Creating a Video Moderation Job

Function

This API is used to create a video moderation job. After the job is created, the job ID is returned.

URI

POST /v3/{project_id}/moderation/video/jobs

Table 4-33 Path parameters

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

Request Parameters

Table 4-34 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token which can be obtained by calling the IAM API (The token is the value of **X-Subject-Token** in the response header.)

Table 4-35 Request body parameters

Parameter	Mandatory	Type	Description
data	Yes	**data** object	Input video data
event_type	Yes	String	Event type. The options are as follows: ● **default**: default event ● **group_message**: group chat video ● **message**: private chat video ● **live**: live show ● **dynamic**: story

Parameter	Mandatory	Type	Description
image_catego ries	Yes	Array of strings	Types of risks to be detected in video images. The list cannot be empty. ● **terrorism**: terrorism-related content ● **porn**: pornographic content ● **image_text**: non-compliant image and text content (including advertisements, pornographic content, terrorism-related content, and QR code in images)
audio_categor ies	No	Array of strings	Types of risks to be detected in the audio of a video. If this parameter is not set or set to null, audio of the video is not moderated. The options are as follows: ● **porn** ● **ad** ● **moan** ● **abuse**

Parameter	Mandatory	Type	Description
callback	No	String	If this field is not empty, the callback will be invoked to send the detection result to your URL. If this field is empty, you need to perform polling periodically to obtain the detection result. **NOTE** 1. Your callback interface must support the POST method. 2. For details about the callback data format, see the **example response for the API used to query a video moderation job**. 3. If the callback interface of your server returns HTTP status code 200 within three seconds after receiving the result from the content security service, the result is successfully received. If another HTTP status code is returned or no status code is returned within three seconds, the result fails to be received. In this case, the content security service will send the detection result repeatedly.
seed	No	String	Used to verify the requests initiated by Huawei Cloud content security service during callback notifications. You can customize it. The value is a random string that contains a maximum of 64 characters, including letters, digits, and underscores (_). **NOTE** If **seed** is not empty, **headers** contains the **X-Auth-Signature** field. The field value is generated using the HMAC-SHA256 algorithm. The string to be encrypted is composed of **create_time**, **job_id**, **request_id**, and **seed** in sequence. The key is **seed**.

Table 4-36 data

Parameter	Mandatory	Type	Description
url	Yes	String	Video URL
frame_interval	No	Integer	Frame capturing interval, in seconds. The value ranges from 1s to 60s. If this parameter is not specified, frames are captured every five seconds by default.
language	No	String	Supported language. The following three languages are available: ● **zh**: Chinese ● **en**: English ● **ar**: Arabic The default value is **zh**.

Response Parameters

Status code: 200

Table 4-37 Response body parameters

Parameter	Type	Description
request_id	String	Unique ID of the request, which is used for troubleshooting. You are advised to save the ID.
job_id	String	Unique job ID

Status code: 400

Table 4-38 Response body parameters

Parameter	Type	Description
error_code	String	Error code of a failed API call. For details, see **Error Codes**. This parameter is not included when the API is successfully called.
error_msg	String	Error message of a failed API call. This parameter is not included when the API is successfully called.

Example Request

Create a default video moderation job to detect pornographic and terrorism-related content in images and text.

> **NOTE**
>
> **endpoint** is the request URL for calling an API. Endpoints vary depending on services and regions. For details, see **Endpoints**.

```
POST https://{endpoint}/v3/{project_id}/moderation/video/jobs
{
  "data" : {
    "url" : "https://xxxx",
    "frame_interval" : 5
  },
  "event_type" : "default",
  "image_categories" : [ "porn","terrorism", "image_text" ],
  "audio_categories" : [ "porn", "ad", "moan", "abuse" ],
  "callback" : "http://xxxx"
}
```

Example Response

Status code: 200

Example of a successful response

```
{
  "job_id" : "01661356800_7c0fe871f80543358917e4faebca4a48",
  "request_id" : "07490f57ac5e034c077ab25b5f9e1da5"
}
```

Status code: 400

Example of a failed response

```
{
  "error_code" : "AIS.0401",
  "error_msg" : "The input parameter event_type is incorrect."
}
```

Status Codes

Status Code	Description
200	Response body for a success
400	Response body for a failure

4.4.2 Querying a Video Moderation Job

Function

This API is used to query the status and result of a video moderation job.

URI

GET /v3/{project_id}/moderation/video/jobs/{job_id}

Table 4-39 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID, see **Obtaining a Project ID**.
job_id	Yes	String	Job ID returned when a job is created

Request Parameters

Table 4-40 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token which can be obtained by calling the IAM API (The token is the value of **X-Subject-Token** in the response header.)

Response Parameters

Status code: 200

Table 4-41 Response body parameters

Parameter	Type	Description
request_id	String	Unique ID of the request, which is used for troubleshooting. You are advised to save the ID.
job_id	String	Job ID
status	String	Job status. The options are as follows: ● **running**: The job is running. ● **succeeded**: The job was executed successfully. ● **failed**: The job failed.
request_params	**request_params** object	Parameters for creating the job

Parameter	Type	Description
create_time	String	Time when the job was created
update_time	String	Time when the job was updated
result	**result** object	Job review result. This parameter is available when the job status is **succeeded**.

Table 4-42 request_params

Parameter	Type	Description
data	**data** object	Parameter **data** for creating the job
event_type	String	Parameter **event_type** for creating the job
image_categories	Array of strings	Parameter **image_categories** for creating the job
audio_categories	Array of strings	Parameter **audio_categories** for creating the job
callback	String	Parameter **callback** for creating the job

Table 4-43 data

Parameter	Type	Description
url	String	Parameter **url** for creating the job
frame_interval	Integer	Parameter **frame_interval** for creating the job. By default, a frame is captured every 5s.

Table 4-44 result

Parameter	Type	Description
suggestion	String	Whether the video passes the check. ● **block**: The video contains sensitive information and fails to pass the check. ● **review**: The video needs to be manually reviewed. ● **pass**: The video does not contain sensitive information and passes the check.
image_detail	Array of **image_detail** objects	Image moderation details

Parameter	Type	Description
audio_detail	Array of **audio_detail** objects	Audio moderation details

Table 4-45 image_detail

Parameter	Type	Description
suggestion	String	Whether the image passes the check • **block**: The image contains sensitive information and fails to pass the check. • **review**: The image needs to be manually reviewed.
category	String	Level-1 label of the detection result. The following categories are supported: • **terrorism**: terrorism-related information • **porn**: pornographic information • **image_text**: image and text
ocr_text	String	Detected text. This field is available only when **category** is set to **image_text** and text is detected.
time	Float	Duration of the frame in the video file, in seconds
detail	Array of **detail** objects	Image frame moderation details

Table 4-46 detail

Parameter	Type	Description
confidence	Float	Confidence. The value ranges from 0 to 1. A larger value indicates a higher confidence.
category	String	Level-1 label of the detection result. The following categories are supported: • **terrorism**: terrorism-related information • **porn**: pornographic information • **image_text**: image and text

Parameter	Type	Description
suggestion	String	Whether the image frame passes the check ● **block**: The image frame contains sensitive information and fails to pass the check. ● **review**: The image frame needs to be manually reviewed.
label	String	Detected label
face_location	**face_location** object	Face location
qr_location	**qr_location** object	QR code location
qr_content	String	Link to the QR code in the image. This parameter is available when request parameter **categories** contains **image_text**.
segments	Array of **segments** objects	Hit text segments in the **image_text** scenario

Table 4-47 face_location

Parameter	Type	Description
top_left_x	Integer	Horizontal coordinate of the upper left corner of detected face
top_left_y	Integer	Vertical coordinate of the upper left corner of detected face
bottom_right_x	Integer	Horizontal coordinate of the lower right corner of detected face
bottom_right_y	Integer	Vertical coordinate of the lower right corner of detected face

Table 4-48 qr_location

Parameter	Type	Description
top_left_x	Integer	Horizontal coordinate of the upper left corner of the detected QR code
top_left_y	Integer	Vertical coordinate of the upper left corner of the detected QR code
bottom_right_x	Integer	Horizontal coordinate of the lower right corner of the detected QR code

Parameter	Type	Description
bottom_right_y	Integer	Vertical coordinate of the lower right corner of the detected QR code

Table 4-49 segments

Parameter	Type	Description
segment	String	Hit risk segment

Table 4-50 audio_detail

Parameter	Type	Description
suggestion	String	Whether the audio clip passes the check • **block**: The audio clip contains sensitive information and fails to pass the check. • **review**: The audio clip needs to be manually reviewed.
label	String	Audio clip detection label. Use the label with the highest confidence in **detail**. The options are as follows: • **terrorism** • **porn** • **ad** • **abuse** • **ban** • **meaningless** • **moan**
audio_text	String	Text of the audio clip
end_time	Float	End time of the audio clip
start_time	Float	Start time of the audio clip
detail	Array of **detail** objects	Audio clip moderation details

Table 4-51 detail

Parameter	Type	Description
confidence	Float	Confidence

Parameter	Type	Description
label	String	Label
suggestion	String	Handling suggestion • **block**: The audio clip contains sensitive information and fails to pass the check. • **review**: The audio clip needs to be manually reviewed.
segments	Array of **segments** objects	List of hit risk segments. This field is unavailable if semantic algorithm models are hit.

Table 4-52 segments

Parameter	Type	Description
segment	String	Hit risk segment

Status code: 400

Table 4-53 Response body parameters

Parameter	Type	Description
error_code	String	Error code of a failed API call. For details, see **Error Codes**. This parameter is not included when the API is successfully called.
error_msg	String	Error message of a failed API call. This parameter is not included when the API is successfully called.

Example Request

📖 NOTE

endpoint is the request URL for calling an API. Endpoints vary depending on services and regions. For details, see **Endpoints**.

GET https://{endpoint}/v3/{project_id}/moderation/video/jobs/{job_id}

Example Response

Status code: 200

Example of a successful response

```
{
  "request_id" : "xxxx",
  "job_id" : "xxx",
  "status" : "succeeded",
  "request_params" : {
    "data" : {
      "url" : "xxxx",
      "frame_interval" : 5
    },
    "event_type" : "default",
    "image_categories" : [ "porn",  "terrorism", "image_text" ],
    "audio_categories" : [ "porn", "ad",  "moan", "abuse" ],
    "callback" : "xxx"
  },
  "create_time" : "2022-07-30T08:57:11.011Z",
  "update_time" : "2022-07-30T08:57:14.014Z",
  "result" : {
    "suggestion" : "block",
    "image_detail" : [ {
      "suggestion" : "block",
      "category" : "porn",
      "ocr_text" : "123",
      "time" : 0,
      "detail" : [ {
        "confidence" : 0.676015138626099,
        "category" : "porn",
        "suggestion" : "block",
        "label" : "pornography"
      }, {
        "confidence" : 0.666015138626099,
        "category" : "porn",
        "suggestion" : "review",
        "label" : "sexy_female"
      }, {
        "confidence" : 0.666015138626099,
        "category" : "xxx",
        "suggestion" : "block",
        "label" : "leader"
      }, {
        "confidence" : 0.691423773765564,
        "category" : "xxx",
        "suggestion" : "block",
        "face_location" : {
          "top_left_x" : 12,
          "top_left_y" : 13,
          "bottom_right_x" : 200,
          "bottom_right_y" : 240
        },
        "label" : "leader"
      }, {
        "confidence" : 0.691423773765564,
        "category" : "porn",
        "suggestion" : "block",
        "face_location" : {
          "top_left_x" : 12,
          "top_left_y" : 13,
          "bottom_right_x" : 100,
          "bottom_right_y" : 2000
        },
        "label" : "leader"
      }, {
        "confidence" : 0.891423773765564,
        "category" : "image_text",
        "suggestion" : "block",
        "label" : "qr_code"
      }, {
        "confidence" : 0.891423773765564,
        "category" : "image_text",
        "suggestion" : "block",
```

```
          "label" : "qr_code",
          "qr_content" : "xxxxxxxxx",
          "qr_location" : {
            "top_left_x" : 12,
            "top_left_y" : 13,
            "bottom_right_x" : 100,
            "bottom_right_y" : 2000
          }
        }, {
          "confidence" : 0.891423773765564,
          "category" : "image_text",
          "suggestion" : "block",
          "label" : "porn",
          "segments" : [ {
            "segment" : "xxx"
          }, {
            "segment" : "xx"
          } ]
        } ]
      } ],
      "audio_detail" : [ {
        "suggestion" : "block",
        "label" : "porn",
        "audio_text" : "xxxxx",
        "end_time" : 10,
        "start_time" : 0,
        "detail" : [ {
          "confidence" : 0.999117187582349,
          "label" : "porn",
          "suggestion" : "block",
          "segments" : [ {
            "segment" : "xxx"
          } ]
        }, {
          "confidence" : 0.885117187582349,
          "label" : "porn",
          "suggestion" : "block"
        } ]
      } ]
    }
  }
}
```

Status code: 400

Example of a failed response

```
{
  "error_code" : "AIS.0030",
  "error_msg" : "Job not found"
}
```

Status Codes

Status Code	Description
200	Job status and result returned when the query is successful
400	Error cause returned when the query fails

4.5 Audio Stream Moderation

4.5.1 Creating an Audio Stream Moderation Job

Function

This API is used to create an audio stream moderation job. After the job is created, the job ID is returned.

◫ NOTE

- You are advised to record the **job_id** corresponding to each URL after creating a moderation job so that you can close the moderation job later.
- If the expected moderation result is not called back after a moderation job is created, the stream may be unstable and may fail to be pulled by the service. You can close the moderation job and create another moderation job for the stream.

URI

POST /v3/{project_id}/moderation/audio-stream/jobs

Table 4-54 Path parameters

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

Request Parameters

Table 4-55 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token, which can be obtained by calling the IAM API (The token is the value of **X-Subject-Token** in the response header.)

Table 4-56 Request body parameters

Parameter	Mandatory	Type	Description
data	Yes	**data** object	Audio stream data input

Parameter	Mandatory	Type	Description
event_type	Yes	String	Event type. The options are as follows: • **default**: default event • **audiobook**: audio book • **education**: educational audio • **game**: game voice room • **live**: livestream fashion show • **ecommerce**: livestream e-commerce • **voiceroom**: dating voice room • **private**: private voice chat
categories	Yes	Array of strings	Types of risks to be detected. The list cannot be empty. The available risk types are as follows: • **porn** • **abuse** • **ad** • **moan**

Parameter	Mandatory	Type	Description
callback	Yes	String	If this field is not empty, the callback will be invoked to send the detection result to your URL. If the audio stream does not end, the client is called back when violation is detected in the segment. If the audio stream ends, the client is called back no matter whether violation is detected in the segment. **NOTE** 1. Your callback interface must support the POST method. 2. For details about the callback data format, see the **example response for the API used to query an audio moderation job**. 3. If the callback interface of your server returns HTTP status code 200 within three seconds after receiving the result from the content security service, the result is successfully received. If another HTTP status code is returned or no status code is returned within three seconds, the result fails to be received. In this case, the content security service will send the detection result repeatedly.
seed	No	String	Used to verify the requests initiated by Huawei Cloud content security service during callback notifications. You can customize it. The value is a random string that contains a maximum of 64 characters, including letters, digits, and underscores (_). **NOTE** If **seed** is not empty, **headers** contains the **X-Auth-Signature** field. The field value is generated using the HMAC-SHA256 algorithm. The string to be encrypted is composed of **create_time**, **job_id**, **request_id**, and **seed** in sequence. The key is **seed**.

Table 4-57 data

Parameter	Mandatory	Type	Description
url	Yes	String	Audio stream URL. Mainstream protocols such as RTMP, RTMPS, HLS, HTTP, and HTTPS are supported.
language	No	String	Supported audio stream language. The options are as follows: • **zh**: Chinese (default value) • **en**: English • **ar**: Arabic
return_all_results	No	Boolean	Policy for returning the audio clip moderation result. The following values are available: • **false**: Audio clips whose risk level is not pass are returned. • **true**: Audio clips of all risk levels are returned. NOTE 1. The default value is **false**. 2. The audio stream moderation result is returned every 10 seconds.

Response Parameters

Status code: 200

Table 4-58 Response body parameters

Parameter	Type	Description
request_id	String	Unique ID of the request, which is used for troubleshooting. You are advised to save the ID.
job_id	String	Unique job ID

Status code: 400

Table 4-59 Response body parameters

Parameter	Type	Description
error_code	String	Error code of a failed API call. For details, see **Error Codes**. This parameter is not included when the API is successfully called.
error_msg	String	Error message of a failed API call. This parameter is not included when the API is successfully called.

Example Request

Create an audio stream moderation job.

```
POST https://{endpoint}/v3/{project_id}/moderation/audio-stream/jobs
{
 "data" : {
   "url" : "https://xxxxx"
 },
 "event_type" : "default",
 "categories" : [ "porn", "ad" ],
 "callback" : "http://xxxx"
}
```

Example Response

Status code: 200

Example of a successful response

```
{
 "job_id" : "01661356800_7c0fe871f80543358917e4faebca4a48",
 "request_id" : "07490f57ac5e034c077ab25b5f9e1da5"
}
```

Status code: 400

Example of a failed response

```
{
 "error_code" : "AIS.0401",
 "error_msg" : "The input parameter event_type is incorrect."
}
```

Status Codes

Status Code	Description
200	Example of a successful response
400	Example of a failed response

Error Codes

For details, see **Error Codes**.

4.5.2 Stopping an Audio Stream Moderation Job

Function

This API is used to stop an audio stream moderation job.

URI

POST /v3/{project_id}/moderation/audio-stream/jobs/stop/{job_id}

Table 4-60 Path parameters

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details about how to obtain the project ID, see **Obtaining a Project ID**.
job_id	Yes	String	Job ID returned when a job is created

Request Parameters

Table 4-61 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token, which can be obtained by calling the IAM API (The token is the value of **X-Subject-Token** in the response header.)

Response Parameters

Status code: 200

Table 4-62 Response body parameters

Parameter	Type	Description
result	String	Result of stopping the audio stream moderation job

Status code: 400

Table 4-63 Response body parameters

Parameter	Type	Description
error_code	String	Error code of a failed API call. For details, see **Error Codes**. This parameter is not included when the API is successfully called.
error_msg	String	Error message of a failed API call. This parameter is not included when the API is successfully called.

Example Request

Stop an audio stream moderation job.

POST https://{endpoint}/v3/{project_id}/moderation/audio-stream/jobs/stop/{job_id}

Example Response

Status code: 200

Example of a successful response

```
{
  "result" : "success"
}
```

Status code: 400

Example of a failed response

```
{
  "error_code" : "AIS.0030",
  "error_msg" : "Job not found"
}
```

Status Codes

Status Code	Description
200	Example of a successful response
400	Example of a failed response

Error Codes

For details, see **Error Codes**.

5 Application Examples

5.1 Text Moderation (V3)

- Sample code for a Python 3 request

```
# encoding:utf-8
import requests
import base64

url = "https://{endpoint}/v3/{project_id}/moderation/text"
token = "Actual token value obtained by the user"
headers = {'Content-Type': 'application/json', 'X-Auth-Token': token}
data= {
  "event_type": "comment",
  "data": {
    "text": "test"
  }
}
response = requests.post(url, headers=headers, json=data, verify=False)
print(response.text)
```

- Sample code for a Java request

```java
//Add the following dependency before use. (The version is only an example.)
<dependency>
    <groupId>com.squareup.okhttp3</groupId>
    <artifactId>okhttp</artifactId>
    <version>3.14.7</version>
</dependency>

package com.huawei.ais.demo;
import java.io.IOException;

import okhttp3.MediaType;
import okhttp3.OkHttpClient;
import okhttp3.Request;
import okhttp3.RequestBody;
import okhttp3.Response;

/**
 * This demo is used only for tests. You are advised to use the SDK.
 * Add the okhttp3 dependency before use.
 */
public class TextModerationDemo {

    public static void main(String[] args) throws IOException {
        try {
            OkHttpClient client = new OkHttpClient().newBuilder()
                    .build();
```

```java
            MediaType mediaType = MediaType.parse("application/json");
            RequestBody body = RequestBody.create(mediaType, "{\"event_type\":\"comment
\",\"glossary_names\":[],\"data\":{\"text\":\"test\"}}");
            Request request = new Request.Builder()
                    .url("https://{endpoint}/v3/{project_id}/moderation/text")
                    .method("POST", body)
                    .header("X-Auth-Token", "Actual token value obtained by the user")
                    .build();
            Response response = client.newCall(request).execute();
            String string = response.body().string();
            System.out.println(string);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

- Sample code for a PHP request
```php
<?php
$curl = curl_init();
curl_setopt_array($curl, array(
    CURLOPT_URL => 'https://{endpoint}/v3/{project_id}/moderation/text',
    CURLOPT_RETURNTRANSFER => true,
    CURLOPT_ENCODING => '',
    CURLOPT_MAXREDIRS => 10,
    CURLOPT_TIMEOUT => 0,
    CURLOPT_FOLLOWLOCATION => true,
    CURLOPT_HTTP_VERSION => CURL_HTTP_VERSION_1_1,
    CURLOPT_CUSTOMREQUEST => 'POST',
    CURLOPT_POSTFIELDS => '{
      "event_type": "comment",
      "data": {
        "text": "test"
      }
    }',
    CURLOPT_HTTPHEADER => array(
        'X-Auth-Token: Actual token value obtained by the user',
        'Content-Type: application/json'
    ),
));

$response = curl_exec($curl);

curl_close($curl);
echo $response;
```

Table 5-1 Parameter description

Parameter	Description
url	API request URL, for example, https://{endpoint}/v3/{project_id}/moderation/text. **endpoint** indicates the **endpoint**, and **project_id** indicates the **project ID**.
token	A token is a user's access credential, which includes user identities and permissions. When you call an API to access a cloud service, a token is required for identity authentication. For details about how to obtain the token, see **Authentication**.

5.2 Image Moderation (V3)

- Sample code for a Python 3 request

```
# encoding:utf-8
import requests
import base64

url = "https://{endpoint}/v3/{project_id}/moderation/image"
token = "Actual token value obtained by the user"
headers = {'Content-Type': 'application/json', 'X-Auth-Token': token}
data= {
  "event_type": "head_image",
  "categories": [
    "porn",
    "terrorism"
  ],
  "url": "Image to be detected"
}
// The image is a URL. For Base64-encoded images, transfer parameter image.
response = requests.post(url, headers=headers, json=data, verify=False)
print(response.text)
```

- Sample code for a Java request

```
Add the following dependency before use. (The version is only an example.)
<dependency>
    <groupId>com.squareup.okhttp3</groupId>
    <artifactId>okhttp</artifactId>
    <version>3.14.7</version>
</dependency>
package com.huawei.ais.demo;
import java.io.IOException;

import okhttp3.MediaType;
import okhttp3.OkHttpClient;
import okhttp3.Request;
import okhttp3.RequestBody;
import okhttp3.Response;

/**
 * This demo is used only for tests. You are advised to use the SDK.
 * Add the okhttp3 dependency before use.
 */
public class ImageModerationDemo {

    public static void main(String[] args) throws IOException {
        try {
            OkHttpClient client = new OkHttpClient().newBuilder()
                    .build();
            MediaType mediaType = MediaType.parse("application/json");
RequestBody body = RequestBody.create(mediaType, "{\"event_type\":\"head_image\",\"categories\":
[\"porn\",\"terrorism\"],\"url\":\"URL of the image to be detected\"}");
// The image is a URL. For Base64-encoded images, transfer parameter image.
            Request request = new Request.Builder()
                    .url("https://{endpoint}/v3/{project_id}/moderation/image")
                    .method("POST", body)
                    .header("X-Auth-Token", "Actual token value obtained by the user")
                    .build();
            Response response = client.newCall(request).execute();
            String string = response.body().string();
            System.out.println(string);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

- Sample code for a PHP request

```php
<?php
$curl = curl_init();
curl_setopt_array($curl, array(
    CURLOPT_URL => 'https://{endpoint}/v3/{project_id}/moderation/image
    CURLOPT_RETURNTRANSFER => true,
    CURLOPT_ENCODING => '',
    CURLOPT_MAXREDIRS => 10,
    CURLOPT_TIMEOUT => 0,
    CURLOPT_FOLLOWLOCATION => true,
    CURLOPT_HTTP_VERSION => CURL_HTTP_VERSION_1_1,
    CURLOPT_CUSTOMREQUEST => 'POST',
    CURLOPT_POSTFIELDS => '{
"event_type": "head_image",
"categories": [
 "porn",
 "terrorism"
],
 "url": "Image to be detected"
}',
// The image is a URL. For Base64-encoded images, transfer parameter image.
    CURLOPT_HTTPHEADER => array(
        'X-Auth-Token: Actual token value obtained by the user',
        'Content-Type: application/json'
    ),
));

$response = curl_exec($curl);

curl_close($curl);
echo $response;
```

Table 5-2 Parameter description

Parameter	Description
url	API request URL, for example, https://{endpoint}/v3/{project_id}/moderation/image. **endpoint** indicates the **endpoint**, and **project_id** indicates the **project ID**.
token	A token is a user's access credential, which includes user identities and permissions. When you call an API to access a cloud service, a token is required for identity authentication. For details about how to obtain the token, see **Authentication**.
imagePath	Image path. An image file path or image URL is supported. The URL can be an HTTP/HTTPS or OBS URL.

6 Appendix

6.1 Status Codes

Status Code	Code	Description
100	Continue	The client continues sending the request. The server has received the initial part of the request and the client should continue sending the remaining part.
101	Switching Protocols	The requester has asked the server to switch protocols and the server has agreed to do so. The target protocol must be more advanced than the source protocol. For example, the current HTTPS protocol is switched to a later version.
200	OK	The server has successfully processed the request.
201	Created	The request for creating a resource has been fulfilled.
202	Accepted	The request has been accepted for processing, but the processing has not been completed.
203	Non-Authoritative Information	The server successfully processed the request, but is returning information that may be from another source.
204	No Content	The server has successfully processed the request, but has not returned any content. The status code is returned in response to an HTTP OPTIONS request.

Status Code	Code	Description
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.
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	Retrieve a location. 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	Bad Request	The request is invalid. The client should not repeat the request without modifications.
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 server understood the request, but is refusing to fulfill it. The client should not repeat the request without modifications.

Status Code	Code	Description
404	Not Found	The requested resource cannot be found. The client should not repeat the request without modifications.
405	Method Not Allowed	The method specified in the request is not supported for the requested resource. The client should not repeat the request without modifications.
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 Timeout	The server timed out when waiting for the request. The client may repeat the request without modifications at any later time.
409	Conflict	The request could not be completed 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 exits, or the request fails to be processed because of the update of the conflict request.
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	Code	Description
414	Request URI Too Long	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	Unprocessable Entity	The request is well-formed but is unable to be processed due to semantic errors.
429	Too Many Requests	The client sends excessive requests to the server within a given time (exceeding the limit on the access frequency of the client), or the server receives excessive 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 expires.
500	Internal Server Error	The server is able to receive but unable to understand the request.
501	Not Implemented	The server does not support the function required to fulfill the request.
502	Bad Gateway	The server was acting as a gateway or proxy and received an invalid response from the upstream server.
503	Service Unavailable	The requested service is invalid. The client should not repeat the request without modifications.
504	Gateway Timeout	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 HTTPS protocol version used in the request.

6.2 Error Codes

Function

A customized message is returned when errors occur in an extended API of HUAWEI CLOUD. This section describes error codes and their meanings.

Response Body Format

```
STATUS CODE 400
{
    "error_code": "AIS.0005",
    "error_msg": "The service does not exist."
 }
```

Error Code Description

If an error occurs during API calling, no result is returned. You can locate the cause of an error using the error code of each API.

The response body contains the specific error code and information. If you fail to locate the cause of the error, contact Huawei Cloud customer service and provide the error code so that we can help you solve the problem as soon as possible.

If an error code starting with **APIGW** is returned after you call an API, rectify the fault by referring to the instructions provided in **API Gateway Error Codes**.

Status Code	Error Code	Error	Description	Handling Measure
400	AIS.0002	The authentication token is abnormal.	The authentication token is abnormal.	Check whether the token is correct.
400	AIS.0003	Failed to complete the request because of an internal service error.	Failed to complete the request because of an internal service error.	Contact HUAWEI CLOUD technical support and **submit a service ticket**.
400	AIS.0004	The request is unauthorized.	The request is unauthorized.	The service has not been subscribed to. For details about how to subscribe to a service, see **Content Moderation Getting Started**.

Stat us Cod e	Error Code	Error	Description	Handling Measure
400	AIS.0005	The service does not exist.	The service does not exist.	Check whether the input service type or scenario is correct. If the fault persists, contact Huawei Cloud technical support by submitting a **service ticket**.
400	AIS.0007	The service has not been enabled yet.	The service has not been enabled yet.	Subscribe to the service. For details about how to subscribe to the service, see **Subscribing to the Service**.
400	AIS.0010	The header is missing or left empty.	The header is missing or left empty.	The HTTP request lacks mandatory header information. Check whether mandatory fields such as **Content-type** exist.
400	AIS.0011	Lack the request parameter, or the request parameter is empty.	The request parameter is missing or left empty.	Check whether mandatory fields are missing in the request body. For details, see the request description of the corresponding API.
400	AIS.0012	The request parameter is not supported.	The request parameter is not supported.	Check whether the fields in the request are valid. For details, see the request description of the corresponding API.
400	AIS.0013	The request method is not allowed.	The request method is not allowed.	Check whether the request method is correct.
400	AIS.0014	The JSON format of the input data is incorrect.	The JSON format of the input data is incorrect.	Check the JSON format of the input data.
400	AIS.0015	Base64 decoding of the input data is incorrect.	Base64 decoding of the input data is incorrect.	The Base64 encoding of the image is incorrect. Check the Base64 content.

Status Code	Error Code	Error	Description	Handling Measure
400	AIS.0020	The size of the request body exceeds the upper limit.	The size of the request body exceeds the upper limit.	Check the request body size.
400	AIS.0021	The requested file type is not supported.	The requested file type is not supported.	Check the type of the requested file.
400	AIS.0022	The URL is invalid.	The URL is invalid.	Check the URL format.
400	AIS.0023	The file stored in OBS is oversized.	The file stored in OBS is oversized.	Check whether the image format is supported by the service. For details, see **Constraints**.
400	AIS.0024	Failed to obtain the file from OBS.	Failed to obtain the file from OBS.	The signature has expired or fails to pass the authentication.
400	AIS.0025	The file stored in OBS is empty.	The file stored in OBS is empty.	Upload the file to OBS first.
400	AIS.0026	Incorrect token type.	Incorrect token type.	Use a token of the project type.
400	AIS.0027	The account has been frozen.	The account has been frozen.	Check whether the account is in arrears.
400	AIS.0028	The job is not owned by the current user.	The job is not owned by the current user.	Check the current account.
400	AIS.0029	Failed to download the file from the Internet.	Failed to download the file from the Internet.	Check whether the URL of the file is correct and supported.

Stat us Cod e	Error Code	Error	Description	Handling Measure
400	AIS.0030	Job not found	Failed to find the job.	The task has expired and is cleared, or the job ID is incorrect. Check whether the job ID is correct.
400	AIS.0031	The maximum number of uncompleted jobs has been reached.	The maximum number of uncompleted jobs has been reached.	The submission of new jobs has been suspended.
400	AIS.0032	The monthly free calls have been used up.	The monthly free calls have been used up.	To continue to use the service, top up your Huawei Cloud account.
400	AIS.0501	Check whether the request JSON is abnormal.	Check whether the request JSON is abnormal.	The request body is not in JSON format.
400	AIS.0502	Check whether the Base64 encoding and URL of the image are correct.	Check whether the Base64 encoding and URL of the image are correct.	Check whether the Base64 encoding of the image is correct and whether the image format is supported by the service.
400	AIS.0504	The image size does not meet requirements.	The image size does not meet requirements.	Check whether the image size meets the service requirements.
400	AIS.0401	The input parameter is incorrect.	The input parameter is incorrect.	Enter a correct parameter.
400	AIS.0402	The image format is not supported.	The image format is not supported.	Check whether the image format is supported by the service.
400	AIS.0403	The image file has been damaged.	The image file has been damaged.	Upload the image again.

Status Code	Error Code	Error	Description	Handling Measure
400	AIS.0404	An exception occurs in Content Moderation.	An exception occurs in Content Moderation.	Contact HUAWEI CLOUD technical support and **submit a service ticket**.
400	AIS.0405	An internal error occurs.	An internal error occurs.	Contact HUAWEI CLOUD technical support and **submit a service ticket**.
400	AIS.0039	Repetitive push stream.	Repeated stream push and moderation job creation	If the expected moderation result is not called back and a message is displayed indicating repeated stream push during the moderation job creation, you can close the moderation job and create another one for the stream.
400	APIG.0101	The API does not exist or has not been published.	The API does not exist or has not been published.	Check whether the input API information is correct and whether the service is available in the corresponding region. Check whether the URL of the API is spelled correctly and whether the HTTP request method (such as POST and GET) is correct. Check whether the domain name and URI configured for service call are correct. For details about the domain name, see **Regions and Endpoints**.

Status Code	Error Code	Error	Description	Handling Measure
400	APIG.0301	1. Incorrect IAM authentication information: Failed to decrypt the token. Check whether the entered token is complete. 2. The validity period of a token is 24 hours. If the token expires, obtain a new token and pass it. 3. The AK/SK authentication fails. Check whether the AK/SK is correct and whether the account is restricted due to arrears.	1. Incorrect IAM authentication information: Failed to decrypt the token. Check whether the entered token is complete. 2. The validity period of a token is 24 hours. If the token expires, obtain a new token and pass it. 3. The AK/SK authentication fails. Check whether the AK/SK is correct and whether the account is restricted due to arrears.	**decrypt token fail**: The token request authentication information of **x-auth-token** in the HTTP request header is incorrect. Check the sent request and token. **token expires**: The token expires. Obtain a new token and pass it. **verify aksk signature fail**: Check whether the AK and SK are correct and whether the account is in arrears.
400	APIG.0201	The request body is oversized.	The request body is oversized.	Check whether the request body is too large. For details, see **Constraints**.
400	APIG.0308	The request is sent too fast and exceeds the default rate limit of the service.	The request is sent too fast and exceeds the default rate limit of the service.	The request is sent too fast and reaches the rate limit of the API. Reduce the request speed. If you have higher requirements on the request speed, **submit a service ticket**.
400	ModelArts.0203	Invalid token.	Invalid token.	Check whether the token is correct.

Status Code	Error Code	Error	Description	Handling Measure
400	ModelArts.4101	The token is empty.	The token is empty.	The HTTP request header does not contain the token request authentication information of **x-auth-token**. Check the request.
400	ModelArts.4102	Failed to parse the token.	Failed to parse the token.	The token request authentication information of **x-auth-token** in the HTTP request header is incorrect. Check the sent request and token.
400	ModelArts.4103	The token is invalid.	The token is invalid.	The token request authentication information of **x-auth-token** in the HTTP request header is incorrect. Check the sent request and token.
400	ModelArts.4104	The length of the request body is invalid.	The length of the request body is invalid.	Check the request body length.
400	ModelArts.4105	The JSON format of the request body is incorrect.	The JSON format of the request body is incorrect.	Check the JSON format of the request body.
400	ModelArts.4106	The account is restricted.	The account is restricted.	Check the user resource status. For details about the account restriction reason, see the description of the account center.
400	ModelArts.4107	An exception occurred when obtaining the temporary AK/SK.	An exception occurred when obtaining the temporary AK/SK.	Contact HUAWEI CLOUD technical support and submit a **service ticket**.
400	ModelArts.4201	The request URL does not contain the service ID.	The request URL does not contain the service ID.	Check the service ID in the request URL.

Status Code	Error Code	Error	Description	Handling Measure
400	ModelArts.4202	The request URL format is invalid.	The request URL format is invalid.	Check the request URL format.
400	ModelArts.4203	No access permission.	No access permission.	Check the access permission.
400	ModelArts.4204	Request api error! The API is not subscribed.	The API is not subscribed to.	Subscribe to this API. For details about how to subscribe to an API, see **Subscribing to a Service**. If the service has been subscribed to, check whether the region where the service is subscribed to is the same as the region where the service is called. If the region is correct, check whether the URL of the API is spelled correctly and whether the HTTP request method (such as POST and GET) is correct.
400	ModelArts.4601	The external URL is invalid.	The external URL is invalid.	Check whether the entered URL is correct.
400	ModelArts.4603	The file failed to be downloaded from the external URL.	The file failed to be downloaded from the external URL.	Check whether the entered URL is correct.
400	ModelArts.4702	The OBS agency failed to be queried.	The OBS agency failed to be queried.	Check whether the OBS agency has been enabled for the service.
400	ModelArts.4703	The OBS URL is invalid.	The OBS URL is invalid.	Check the entered OBS URL.
400	ModelArts.4704	Failed to obtain the OBS file.	Failed to obtain the OBS file.	Failed to download the OBS file. Check whether the file exists.
400	ModelArts.4705	The OBS file is oversized.	The OBS file is oversized.	Use a file that meets the service size limit as the input. For details, see **Constraints**.

Status Code	Error Code	Error	Description	Handling Measure
400	ModelArts.4706	The OBS file does not exist.	The OBS file does not exist.	Failed to download the OBS file. Check whether the file exists.
400	Others	If other error codes are displayed, **submit a service ticket**.		

6.3 Configuring the Access Permission of OBS

Multimedia files such as images and voice files in the Enterprise Intelligence (EI) services can be directly processed by HUAWEI CLOUD OBS. This reduces service usage costs, shortens service response time, and improves service experience.

To ensure data security, a service can used authorized URLs (**https://<bucket-name>.<endpoint>/<object-name>**) to access files stored on OBS after it is granted with the permission. If not permitted, services cannot directly obtain user data. To obtain the user data, public read authorization must be enabled or a temporarily authorized URL must be provided.

Service Authorization

To use data in OBS, you need to enable OBS authorization. Log in to the management console and choose **OBS Content Moderation** > **Incremental Scan Jobs**. Enable **OBS Authorization**. After the authorization is enabled, you can use the authorized URL to access the service.

Figure 6-1 OBS Authorization

OBS Authorization 🔘

If you need to use the data stored on OBS for Content Moderation, enable OBS authorization.

📖 **NOTE**

Content Moderation does not support OBS in other regions. The region of OBS must be consistent with that of Content Moderation.

Enabling Public Read Authorization

For details about how to enable public read authorization, see **Permission Control** in the *Object Storage Service Console Operation Guide*. Then, you can access the data on OBS using the URL after the corresponding files are uploaded to OBS. The URL can also serve as EI services' API request parameter for using related service APIs.

Using Temporary Request Authentication

Public read authorization is easy to use. However, when it is enabled, sensitive information, such as private data, may be disclosed. In this scenario, the temporary authorization function provided by OBS can be used.

OBS allows users to construct a specific URL for objects in the OBS service. The URL contains authentication information. Any user can use the URL to access the specified object in OBS, but the URL is valid only before the expiry time specified by **Expires**. After a user issues temporary authorization, other users can perform desired operations without knowing the user's secret access key.

For details about how to use the OBS temporary authorization function, see section "Authorized Access" of the corresponding programming language in the **Object Storage Service SDK Reference**. Download the related SDK and sample code, and compile code to obtain the related URL.

6.4 Configuring Custom Dictionaries

When using Text Moderation, you can configure a custom allowlist dictionary and a custom blocklist dictionary to filter and detect specified text content.

☐ **NOTE**

- Moderation (Audio), Moderation (Video), and Moderation (Audio Stream) do not support custom word dictionaries.
- You need to maintain the custom dictionaries you have created.

Background

- To configure custom dictionaries, subscribe to Moderation (Text) first. For details about how to enable this service, see **Subscribing to a Service**.
- You can use custom dictionaries for free.
- An account can create a maximum of 20 custom word dictionaries.

Verify that a custom glossary can be created.

☐ **NOTE**

Select Pass for the handling suggestion of the whitelist word library and Violation or Suspected for the handling suggestion of the blacklist word library.

You can customize an allowlist dictionary so that the words in the allowlist dictionary will be free from detection when you use Text Moderation.

1. Log in to the Content Moderation management console.

2. In the navigation pane, choose **Content Moderation V3** > **Custom Dictionary**. On the displayed page, click the **Allowlist Libraries** tab and then **Create Dictionary**.

Figure 6-2 Create Dictionary

3. Set parameters and click **to confirm**.
   – **Dictionary Name**: A dictionary name contains a maximum of 50 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed.
   – **Handling Suggestion**: The options include Pass, Violation, and Suspected. **Pass** indicates an allowlist dictionary, and **Violation** and **Suspected** indicate a blocklist dictionary.
   – **Application Scenario**: Select the scenario, which can be **Terrorism**, **Pornography**, **Contraband**, **Abuse**, **Advertisement**, **Custom**, or **Normal**.
   – Matching mode: original text matching.
   – Description: description of the word dictionary.

   📖 **NOTE**

   The dictionary name cannot be changed.

4. After the keyword is created, click Manage in the Operation column on the list page to add a keyword. You can add multiple keywords by pressing **Enter**. Each keyword occupies a line. A blocklist directory supports a combination of words separated by ampersands (&), for example, "contact me" matches "contact" and "me".

Figure 6-3 Add a keyword:

Modifying or Deleting a Custom Dictionary

Modifying or Deleting a Custom Dictionary

1. Log in to the Content Moderation management console.

2. In the navigation pane, choose **Content Moderation V3** > **Custom Dictionary**.

    –   Locate a dictionary and click **Modify** in the **Operation** column. In the displayed dialog box, modify the keywords and click **OK**.

    –   Locate a dictionary and click **Delete** in the **Operation** column. In the displayed dialog box, click **OK**.

📖 **NOTE**

>   Deleted policies cannot be recovered. Exercise caution when performing this operation.

6.5 Obtaining a Project ID

Scenarios

A project ID or name is required for some requests when an API is called. Therefore, obtain the project ID and name before calling the API. Use either of the following methods:

●   **Obtaining a Project ID and Name from the Console**

●   **Obtaining a Project ID by Calling an API**
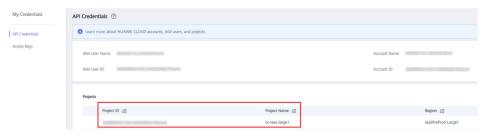
Obtaining a Project ID and Name from the Console

To do so, perform the following operations:

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. The **My Credentials** page is displayed.

    📖 **NOTE**

    >   If you have logged in to the official HUAWEI CLOUD website but not the console, click your username in the upper right corner and choose **My Account** from the drop-down list. On the **Basic Information** page, click **Manage** following **Security Credentials**. Then, the **My Credentials** page is displayed.

3. On the **API Credentials** page, view the project ID and name in the **Projects** area.

    Figure 6-4 Viewing the project ID

If there are multiple projects, unfold the target region and obtain the project ID from the **Project ID** column.

Obtaining a Project ID by Calling an API

A project ID can be obtained by calling a specific API. For details, see **Querying Project Information Based on the Specified Criteria**.

The API for obtaining a project ID is **GET https://**{iam-endpoint}**/v3/projects**. To obtain *{iam-endpoint}*, see **Regions and Endpoints**.

The following is an example response. For example, if ModelArts is deployed in the **ap-southeast-1** region, the value of **name** in the response body is **ap-southeast-1**. The value of **id** in **projects** is the project ID.

```
{
    "projects": [{
        "domain_id": "65382450e8f64ac0870cd180d14e684b",
        "is_domain": false,
        "parent_id": "65382450e8f64ac0870cd180d14e684b",
        "name": "ap-southeast-1",
        "description": "",
        "links": {
            "next": null,
            "previous": null,
            "self": "https://www.example.com/v3/projects/a4a5d4098fb4474fa22cd05f897d6b99"
        },
        "id": "a4a5d4098fb4474fa22cd05f897d6b99",
        "enabled": true
    }],
    "links": {
        "next": null,
        "previous": null,
        "self": "https://www.example.com/v3/projects"
    }
}
```

6.6 Obtaining the Account Name and Account ID

When you call APIs, certain requests require the account name and ID. To obtain a username and ID, do as follows:

1. Sign up and log in to the console.
2. Hover the cursor on the username and select **My Credentials** from the drop-down list.

   On the **API Credentials** page, view the account name and ID.