



Content Moderation

API Reference

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1 Before You Start

1.1 Overview

Content Moderation adopts image, video, and text detection technologies that detect pornography and advertisements, or violence-related material, and sensitive political information and figures. In addition, Content Moderation can detect image clarity, and correct distorted images to meet the upload requirements. 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](#).

1.2 API Calling

Content Moderation provides Representational State Transfer (REST) APIs, allowing you to use HTTPS requests to call them. For details about API calling, 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](#).

[Table 1-1](#) lists Content Moderation endpoints. Select a desired one based on service requirements.

Table 1-1 Endpoints of Content Moderation

Name of Covered Region	Region	Endpoint
CN North-Beijing1	cn-north-1	moderation.cn-north-1.myhuaweicloud.com
CN North-Beijing4	cn-north-4	moderation.cn-north-4.myhuaweicloud.com
CN East-Shanghai1	cn-east-3	moderation.cn-east-3.myhuaweicloud.com
AP-Hong Kong	ap-southeast-1	moderation.ap-southeast-1.myhuaweicloud.com
AP-Singapore	ap-southeast-3	moderation.ap-southeast-3.myhuaweicloud.com

1.4 Limitations and Constraints

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. 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](#), [Distortion Correction \(Deprecated\)](#), and [Image Clarity Detect \(Deprecated\)](#). You can use Content Moderation by calling these APIs.

Moderation (Text)

Table 2-1 API description

API	Description
Text Moderation	Analyzes and identifies whether the uploaded text contains pornographic elements or politically sensitive words, and returns the result to you.

Distortion Correction

Table 2-2 API description

API	Description
Distortion Correction	Identifies whether the original images of enterprise forms are distorted and correct the distortion.

Image Clarity Detect

Table 2-3 API description

API	Description
Image Clarity Detect	Identifies whether the original images of enterprise forms are clear or blurred, helping enterprises build the image moderation system.

3 Calling APIs

3.1 Applying for a Service

Before using any service of Content Moderation, you must apply for it. The following is the procedure for applying for services of Content Moderation.

 **NOTE**

- Before applying for any service of Content Moderation, apply for a HUAWEI CLOUD account and complete real-name authentication.
- If you use any service of Content Moderation for the first time, apply for it first. You only need to apply for a service once.

- Step 1** Log in to the HUAWEI CLOUD product page and click **Console** in the upper right corner. The **Console** page is displayed.
- Step 2** Click **Service List**, and choose **EI Enterprise Intelligence > Content Moderation**. The **Content Moderation** management console is displayed.
- Step 3** Subscribe to your desired services on the **Service List** or **Service Management** page.
- Step 4** To subscribe to your desired services on the **Service Management** page, select the services on the **Commercial Services** or **Beta Services** area in the **Unsubscribed Services** area. To apply for a beta service, go to [Step 5](#). To subscribe to a commercial service, go to [Step 6](#).
- Step 5** Click **Apply for Beta**.

 **NOTE**

The open beta test (OBT) application is manually reviewed. Generally, it takes one to two days for approval. In the case of holidays, the approval will be postponed.

- Step 6** Click **Subscribe**.
- Step 7** After the OBT application or service subscription is complete, the service is enabled.
- End

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 can then be 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.

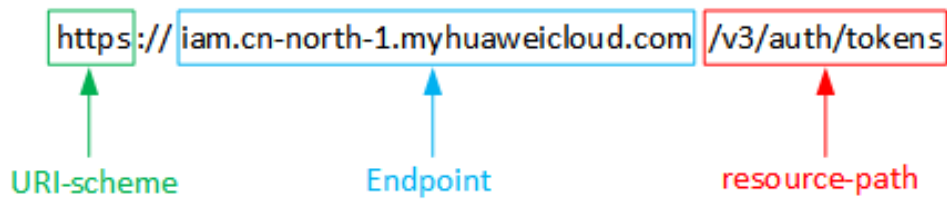
Table 3-1 URI parameter description

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.
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 region CN North-Beijing1 is iam.cn-north-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 an IAM token in the **CN North-Beijing1** region, obtain the endpoint of IAM (**iam.cn-north-1.myhuaweicloud.com**) for this region and the **resource-path** (**/v3/auth/tokens**) in the URI of the API used to **obtain a user token**. Then, construct the URI as follows:

`https://iam.cn-north-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.cn-north-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 <i>YYYYMMDDT'HHMMSZ'</i> format. The value is the current Greenwich Mean Time (GMT) of the system.	No This field is mandatory for AK/SK-based authentication.	20150907T101459Z
Authorization	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=ZIRKMTWPT 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 <i>hostname[:port]</i> 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

Parameter	Description	Mandatory	Example
X-Project-Id	Project ID. This parameter is used to obtain the token for each project. This parameter is mandatory for a request from a Dedicated Cloud (DeC) or multi-project user.	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.cn-north-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
```

Request Body

The body of a request is often sent in a structured format as specified in 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.cn-north-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**.

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

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:

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

AK/SK-based Authentication

NOTE

AK/SK-based authentication 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.
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
→ MIIXQYJKoZiZhvclNAQcCoIIVTjCCGEoCAQExDTALBglghkgBZQMEAgEwgharBgkqhkiG9w0BBwGgghacBIIWmHsidG9rZW4iOnsiZlhwawXJlc19hdCI6IjIwMTk0MDItMTNUMC
fj3KIs6YgKnpVNRbW2eZ5eb78SZOkqACgklqO1wi4JlGzrpd18LGXK5txldfq4lqHCYb8P4NaY0NYejcAgzJVeFYtLWT1GS00zxKZmlQHqj82HBqHdgIZO9fuEbL5dMhdavj+33wEI
xHRCe9I87o+k9-
j+CmZSEB7bUgD5Uj6eRASX11jipPEGA270g1FruooL6jqgIFkNPQuFSOU8++uSsttVwRtNfsc+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUUpvGw-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": "cn-north-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 Moderation (Text)

4.1.1 Text Moderation

Function

This API analyzes and identifies whether the uploaded text contains pornographic elements or politically sensitive words, and returns the result to you.

Prerequisites

- Before using Text Moderation, you need to apply for the service and complete authentication. For details, see [Getting Started with Moderation \(Text\)](#).
- By default, the maximum number of concurrent API calls is 50. To increase concurrency, contact Huawei technical support.

URI

URI format

POST /v1.0/moderation/text

Request Message

[Table 4-1](#) describes the request parameters.

Table 4-1 Request parameters

Parameter	Mandatory	Type	Description
items	Yes	Array	Indicates the items to be checked. Currently, only one item can be checked each time.

Parameter	Mandatory	Type	Description
text	Yes	String	Indicates the text to be checked. The encoding format is UTF-8. A maximum of 5,000 characters is allowed. If the number of characters to be checked exceeds the upper limit, only the first 5,000 characters will be checked.
type	No	String	Indicates the text type. The default value is content . Currently, only the content type is supported.
categories	No	Array	<p>Indicates the detection scenario. Currently, the following scenarios are supported:</p> <ul style="list-style-type: none">• Default scenarios:<ul style="list-style-type: none">– politics: indicates sensitive political information detection.– porn: indicates pornographic information detection.– ad: indicates advertisement detection.– abuse: indicates offensive content detection.– contraband: indicates contraband information detection.– flood: indicates spamming detection.• User-defined scenario: custom blacklist dictionary <p>NOTE</p> <ul style="list-style-type: none">• For details about how to create and use a custom dictionary, see Configuring a Custom Dictionary.• The custom whitelist dictionary cannot be used in the flood scenario.

Response Message

[Table 4-2](#) describes the response parameters.

Table 4-2 Response parameters

Parameter	Type	Description
result	Object	Indicates the calling result when the API is successfully called. This parameter is not included when the API fails to be called.
detail	Object	Indicates details about the returned check result. Possible values are as follows: <ul style="list-style-type: none"> ● politics: indicates a list of politically sensitive words. ● porn: indicates a list of pornographic words. ● ad: indicates a list of sensitive advertisement words. ● abuse: indicates a list of offensive words. ● contraband: indicates a list of words related to contraband. ● flood: indicates spam, or unwanted content particularly in forums that provide little value to readers. <p>NOTE</p> <ul style="list-style-type: none"> ● The spam content contains a maximum of 200 characters. ● The details about the returned check result of each scenario refer to only the detected words instead of the whole content.
suggestion	String	Indicates whether the check is passed. block : indicates that sensitive information is detected and the information fails to pass the check. pass : indicates that no sensitive information is detected and the information passes the check. review : indicates that the text needs to be manually reviewed.
error_code	String	Indicates the 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	Indicates the error message of a failed API call. This parameter is not included when the API is successfully called.

Examples

- Example request
POST <https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/text>

Request Header:
Content-Type:application/json

```
X-Auth-Token:
MIINRwYJKoZlhvcNAQcCoIIINODCCDTQCAQExDTALBgIghkgBZQMEAgEwgguVBgkqhkiG...
Request Body:
{
  "categories":["ad","politics","abuse","porn","contraband","flood"],
  "items":[
    {
      "text": "asdfasdf",
      "type": "content"
    }
  ]
}
```

- Example successful response

```
{
  "result": {
    "detail": {
      "flood": "asdfasdf"
    },
    "suggestion": "block"
  }
}
```

- Example failed response

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

Status Code

- Normal
200
- Abnormal

Return Value	Description
400	<ul style="list-style-type: none"> • The request cannot be understood by the server due to malformed syntax. The client should not repeat the request without modifications. • The request parameter is incorrect.
401	The request requires user authentication.
403	No operation permission.
404	The server has not found anything matching the Request-URI.
500	The server encountered an unexpected condition which prevented it from fulfilling the request.

4.2 Moderation (Image)

4.2.1 Image Moderation

Function

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

Prerequisites

- Before using Image Moderation, you need to apply for the service and complete authentication. For details, see [Getting Started with Moderation \(Image\)](#).
- By default, the maximum number of concurrent API calls is 10. To increase concurrency, contact Huawei technical support.

URI

URI format

POST /v1.0/moderation/image

Request Message

[Table 4-3](#) describes the request parameters.

Table 4-3 Request parameters

Parameter	Mandatory	Type	Description
image	Configure either this parameter or url .	String	Indicates the Base64 character string converted from the image. The size cannot exceed 10 MB. The face of a political figure must contain at least 50 x 50 pixels. The supported image formats include JPG, PNG, and BMP.

Parameter	Mandatory	Type	Description
url	Configure either this parameter or image .	String	<p>Indicates the URL of an image. The options are as follows:</p> <ul style="list-style-type: none">• HTTP/HTTPS URLs on the public network• HUAWEI CLOUD OBS URLs. To use OBS data, authorization is required, including service authorization, temporary authorization, and anonymous public authorization. For details, see Configuring the Access Permission of OBS. <p>NOTE The API response time depends on the image download time. If the image download takes a long time, the API call will fail. Ensure that the storage service where the image to be detected resides is stable and reliable. You are advised to use HUAWEI CLOUD OBS.</p>
categories	No	Array	<p>Indicates the detection scenario. Possible values are as follows:</p> <ul style="list-style-type: none">• politics: checks whether political figures exist.• terrorism: checks whether terrorism-related content or sensitive political information exists.• porn: checks whether pornographic content exist.• ad: checks whether advertisements exist.• all: checks all elements in the politics, terrorism, and porn scenarios. <p>You can set the parameter to the preceding values to check the corresponding elements.</p> <p>If this parameter is left blank or does not exist, both politics and terrorism scenarios are checked, but the porn scenario is not included.</p> <p>NOTE The number of detection times in each scenario is collected by category.</p>

Parameter	Mandatory	Type	Description
ad_categories	No	Array	<p>Indicates the scenario of text moderation for images. This parameter is valid only when the values of categories contain ad. The following scenarios are supported:</p> <ul style="list-style-type: none"> • System-defined scenario: <ul style="list-style-type: none"> - qr_code: QR code detection - politics: sensitive political information detection - porn: pornographic information detection - ad: advertisement detection - abuse: offensive content detection - contraband: contraband information detection • User-defined scenario: custom blacklist dictionary <p>NOTE</p> <ul style="list-style-type: none"> • For details about how to create and use a custom dictionary, see Configuring a Custom Dictionary.

Parameter	Mandatory	Type	Description
threshold	No	Number	<p>Indicates the threshold for filtering the detection results. Only the results whose confidence score is greater than or equal to the threshold are displayed in the detail list. The value ranges from 0 to 1. If this parameter is left unspecified, the default values of different scenarios are used.</p> <p>The default value of the politics scenario is 0.95.</p> <p>The default value of the terrorism scenario is 0.</p> <p>The default value of the ad scenario is 0.</p> <p>If there is no special requirement, do not pass this parameter, or leave this parameter unspecified as shown in the example request.</p> <p>NOTE</p> <ul style="list-style-type: none"> • If the maximum confidence score of a specific detection scenario is smaller than the value of threshold, the detail list is empty. If the value of threshold is too small, too many results are displayed in the detail list. • The threshold parameter does not support filtering of the porn scenario. • The threshold parameter does not affect the suggestion in the response.
moderation_rule	No	String	<p>Name of the review rule. The default rule is used by default.</p> <p>NOTE</p> <p>For details about how to create and use review rules, see Configuring Moderation Rules.</p>

Response Message

[Table 4-4](#) describes the response parameters.

Table 4-4 Response parameters

Parameter	Type	Description
result	Object	<p>Indicates the calling result when the API is successfully called.</p> <p>This parameter is not included when the API fails to be called.</p>

Parameter	Type	Description
detail	Object	Indicates a list of detection results of a specific scenario. politics lists the detection results of political figures, terrorism lists the detection results of terrorism-related content or sensitive political information, and porn lists the detection results of pornographic elements. If the maximum confidence score of a specific detection scenario is smaller than the value of threshold , the detail list is empty.
confidence	Number	Indicates the confidence score. The value ranges from 0 to 1.
face_detail	Object	Indicates the facial information in the politics scenario, including the following four attributes: h : indicates the height of the face area. w : indicates the width of the face area. x : indicates the distance from the upper left corner of the face area to the y axis. y : indicates the distance from the upper left corner of the face area to the x axis.

Parameter	Type	Description
label	String	<p>Indicates the label of each detection result. Possible values are as follows:</p> <p>In the politics scenario, label indicates the information about the corresponding political figure.</p> <p>In the terrorism scenario, label indicates the information about the terrorism-related elements or sensitive political information.</p> <ul style="list-style-type: none"> • Currently, the terrorism scenario supports the following labels: <ul style="list-style-type: none"> - normal: indicates that the image does not contain terrorism-related elements. - knife: indicates that the image contains a knife. - gun: indicates that the image contains a gun. - fire: indicates that the image contains the fire. - bloody: indicates that the image contains a bloody scene. - terrorist: indicates that the image contains a terrorist organization and symbol. - fascist: indicates that the image contains a fascist organization and symbol. - cult: indicates that the image contains a heretical organization and symbol. - negative_politics: indicates that the image contains a negative political organization and symbol. - negative_political_events: indicates that the image contains a sensitive political event and symbol. - special_characters: indicates that the image contains special characters. - kidnap: indicates that the image contains kidnapping. - corpse: indicates that the image contains a corpse. - riot: indicates that the image contains a riot. - parade: indicates that the image contains a demonstration. - sensitive_landmarks: indicates that the image contains a sensitive landmark. - military_weapon: indicates that the image contains a military weapon. - army: indicates that the image contains police force.

Parameter	Type	Description
		<ul style="list-style-type: none"> - positive_politics: indicates that the image contains a positive political organization and symbol. - crowd: indicates that the image contains crowd. <p>In the porn scenario, label classifies pornographic elements (porn information or sexy information).</p> <ul style="list-style-type: none"> • Currently, the porn scenario supports the following labels: <ul style="list-style-type: none"> - normal: indicates that the image does not contain pornographic elements. - porn: indicates that the image contains pornographic elements. - sexy: indicates that the image contains suggestive content. <p>In the ad scenario, label indicates the advertisement detection result.</p> <ul style="list-style-type: none"> • The ad scenario supports the following labels: <ul style="list-style-type: none"> - normal: indicates that the image does not contain advertisement-related elements. - ad: indicates that the image contains advertisement-related elements. • The scenario of text moderation for images supports the following labels: <ul style="list-style-type: none"> - normal: The image does not contain advertisement-related elements. - qr_code: The image contains a QR code. - politics: The image contains sensitive political information. - porn: The image contains pornographic information. - ad: The image contains advertisement-related elements. - abuse: The image contains offensive content. - contraband: The image contains contraband information. - Items in the custom blacklist dictionary
hit_contexts	Array	Texts detected during text moderation for images

Parameter	Type	Description
suggestion	String	<p>Indicates whether the check is passed.</p> <p>block indicates that sensitive information is detected and the information fails to pass the check.</p> <p>pass indicates that no sensitive information is detected and the information passes the check.</p> <p>review indicates that the image needs to be manually reviewed.</p> <p>NOTE When multiple scenarios are detected at the same time, the value of suggestion is subject to the scenario where sensitive information is most likely to be included. That is, if a block occurs in any scenario, the value of suggestion is block. If all scenarios pass the check, the value of suggestion is pass. In addition, if manual review is required in any scenario, the value of suggestion is review.</p>
category_suggestions	Object	<p>Indicates the check result of each scenario. Possible values are as follows:</p> <p>block indicates that sensitive information is detected and the information fails to pass the check.</p> <p>pass indicates that no sensitive information is detected and the information passes the check.</p> <p>review indicates that the image needs to be manually reviewed.</p>
error_code	String	<p>Indicates the error code of a failed API call. For details, see Error Codes.</p> <p>This parameter is not included when the API is successfully called.</p>
error_msg	String	<p>Indicates the error message of a failed API call.</p> <p>This parameter is not included when the API is successfully called.</p>

Examples

- Example request (Method 1: Use a Base64-encoded image.)

POST https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/image

Request Header:

Content-Type:application/json

X-Auth-Token:

MIINRwYJKoZIHvcNAQcCoIINODCCDTQCAQExDTALBglghkgBZQMEAgEwgguVBgkqhkiG...

Request Body:

```
{
  "url" : "",
  "image" : "/9j/4AAQSkZJRgABAQEASABIAAD/
4RFZRXhpZgAATU0AKgAAAQgABwESAAMAAAABAEEAAAEAAUAAAABAAAAYgEBAUAAAABAAAA...",
  "categories":[
    "politics",
    "terrorism",
    "ad"
  ],
}
```

```
"ad_glossaries":[
  "glossary_01",
  "glossary_02"
],
"ad_categories":[
  "qr_code",
  "politics",
  "abuse",
  "porn",
  "ad",
  "contraband"
],
"threshold" : ""
}
```

- Example request (Method 2: Use the URL redirecting to the image file.)

POST <https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/image>

Request Header:

Content-Type:application/json

X-Auth-Token:

MIINRwYJKoZlHvcNAQcCoIIINODCCDTQCAQExDTALBglghkgBZQMEAgEwgggVBgkqhkiG...

Request Body:

```
{
  "url" : "https://BucketName.obs.myhuaweicloud.com/ObjectName",
  "image" : "",
  "categories":[
    "politics",
    "terrorism",
    "ad"
  ],
  "ad_glossaries":[
    "glossary_01",
    "glossary_02"
  ],
  "ad_categories":[
    "qr_code",
    "politics",
    "abuse",
    "porn",
    "ad",
    "contraband"
  ],
  "threshold" : ""
}
```

- Example successful response

```
{
  "result":{
    "detail":{
      "politics":[
        {
          "confidence": 0.89155281782150264,
          "face_detail":{
            "h": 130,
            "w": 103,
            "x": 80,
            "y": 125
          },
          "label": "xxx"
        },
        {
          "confidence": 0.87563462432654422,
          "face_detail":{
            "h": 131,
            "w": 203,
            "x": 423,
            "y": 109
          },
          "label": "yyy"
        }
      ]
    }
  }
}
```

```
    }
  ],
  "terrorism":[
    {
      "confidence": 0.73155281782150264,
      "label": "xxx"
    },
    {
      "confidence": 0.26844718217849736,
      "label": "yyy"
    }
  ],
  "ad":[
    {
      "hit_contexts": [
        "xxx",
        "xx"
      ],
      "confidence": 1,
      "label": "politics"
    },
    {
      "confidence": 0,
      "label": "ad"
    },
    {
      "confidence": 0.998,
      "label": "qr_code"
    },
    {
      "confidence": 0,
      "label": "normal"
    }
  ]
},
"suggestion": "block",
"category_suggestions": {
  "politics":"block",
  "terrorism":"review",
  "ad":"block"
}
}
```

- Example failed response

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

Status Code

- Normal
200
- Abnormal

Return Value	Description
400	<ul style="list-style-type: none">• The request cannot be understood by the server due to malformed syntax. The client should not repeat the request without modifications.• The request parameter is incorrect.

Return Value	Description
401	The request requires user authentication.
403	No operation permission.
404	The server has not found anything matching the Request-URI.
500	The server encountered an unexpected condition which prevented it from fulfilling the request.

4.2.2 Image Moderation (Batch)

Function

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

Prerequisites

- Before using Text Moderation, you need to apply for the service and complete authentication. For details, see [Getting Started with Moderation \(Image\)](#).
- By default, the maximum number of concurrent API calls is 10. To increase concurrency, contact Huawei technical support.

URI

URI format

POST /v1.0/moderation/image/batch

Request Message

[Table 4-5](#) describes the request parameters.

Table 4-5 Request parameters

Parameter	Mandatory	Type	Description
urls	Yes	Array	<p>Indicates the URL of an image. The options are as follows:</p> <ul style="list-style-type: none"> • HTTP/HTTPS URLs on the public network • HUAWEI CLOUD OBS URLs. To use OBS data, authorization is required, including service authorization, temporary authorization, and anonymous public authorization. For details, see Configuring the Access Permission of OBS. <p>NOTE You can configure a maximum of 10 URLs. The API response time depends on the image download time. If the image download takes a long time, the API call will fail. Ensure that the storage service where the image to be detected resides is stable and reliable. You are advised to use HUAWEI CLOUD OBS.</p>
categories	No	Array	For details, see the categories parameter description .
threshold	No	Number	For details, see the threshold parameter description .

Response Message

[Table 4-6](#) describes the response parameters.

Table 4-6 Response parameters

Parameter	Type	Description
result	Object	<p>Indicates the calling result when the API is successfully called.</p> <p>This parameter is not included when the API fails to be called.</p>
url	String	Indicates the URL of an image.
suggestion	String	For details, see the suggestion parameter in Table 4-4 .

Parameter	Type	Description
detail	Object	For details, see the detail parameter in Table 4-4 .
confidence	Number	For details, see the confidence parameter in Table 4-4 .
face_detail	List	For details, see the face_detail parameter in Table 4-4 .
label	String	For details, see the label parameter in Table 4-4 .
error_code	String	Indicates the 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	Indicates the error message of a failed API call. This parameter is not included when the API is successfully called.

Examples

- Example request (Use the URLs redirecting to the image files.)
POST <https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/image/batch>

```
Request Header:
Content-Type:application/json
X-Auth-Token:
MIINRwYJKoZIHvcNAQcCoIINODCCDTQCAQExDTALBglghkgBZQMEAgEwgguVBgkqhkiG...
Request Body:
{
  "urls": ["https://bucketname.obs.myhuaweicloud.com/ObjectName1",
  "https://bucketname.obs.myhuaweicloud.com/ObjectName2"],
  "categories":[
    "politics",
    "terrorism",
    "porn"],
  "threshold" : ""
}
```

- Example successful response

```
{
  "result":[{
    "url": "https://BucketName.obs.myhuaweicloud.com/ObjectName1",
    "suggestion": "block",
    "detail":{
      "politics":[
        {
          "confidence": 0.87563462432654422,
          "face_detail":{
            "h": 131,
            "w": 203,
            "x": 423,
            "y": 109
          },
          "label": "yy"
        }
      ],
      "terrorism":[
        {
          "confidence": 0.26844718217849736,
```

```

        "label": "jyy"
    },
    "porn": [
        {
            "confidence": 1,
            "label": "normal"
        },
        {
            "confidence": 0,
            "label": "porn"
        },
        {
            "confidence": 0,
            "label": "sexy"
        }
    ]
}
},
{
    "url": "https://BucketName.obs.myhuaweicloud.com/ObjectName2",
    "suggestion": "review",
    "detail": {
        "politics": [
            {
                "confidence": 0.57563462432654422,
                "face_detail": {
                    "h": 131,
                    "w": 203,
                    "x": 423,
                    "y": 109
                },
                "label": "xxx"
            },
        ],
        "terrorism": [
            {
                "confidence": 0.16844718217849736,
                "label": "xxx"
            },
        ],
        "porn": [
            {
                "confidence": 1,
                "label": "normal"
            },
            {
                "confidence": 0,
                "label": "porn"
            },
            {
                "confidence": 0,
                "label": "sexy"
            }
        ]
    }
}
]
}

```

- Example failed response

- Response upon a request failure

```

{
    "error_code": "AIS.0005",
    "error_msg": "The service does not exist."
}

```

- Response upon the request failures of several URLs

```

{
    "result": [
        {
            "url": "https://BucketName.obs.myhuaweicloud.com/ObjectNotExist",
            "error_code": "AIS.0024",
            "error_msg": "Obtaining the file from the OBS failed. Forbidden"
        },
        {
            "url": "https://BucketName.obs.myhuaweicloud.com/ObjectName2",
            "suggestion": "review",

```

```
"detail":{
  "politics":[
    {
      "confidence": 0.57563462432654422,
      "face_detail":{
        "h": 131,
        "w": 203,
        "x": 423,
        "y": 109
      },
      "label": "xxx"
    },
  ],
  "terrorism":[
    {
      "confidence": 0.16844718217849736,
      "label": "xxx"
    },
  ],
  "porn": [{
    "confidence": 1,
    "label": "normal"
  },
  {
    "confidence": 0,
    "label": "porn"
  },
  {
    "confidence": 0,
    "label": "sexy"
  }
  ]
}
]
```

Status Code

- Normal
200
- Abnormal

Return Value	Description
400	<ul style="list-style-type: none">• The request cannot be understood by the server due to malformed syntax. The client should not repeat the request without modifications.• The request parameter is incorrect.
401	The request requires user authentication.
403	No operation permission.
404	The server has not found anything matching the Request-URI.
500	The server encountered an unexpected condition which prevented it from fulfilling the request.

4.2.3 Image Moderation (Asynchronous Batch)

4.2.3.1 Job Submission

Function

This API submits a batch of image moderation jobs, and returns the job IDs used for querying the results. It is an asynchronous API. Compared with the batch API, this API supports a larger batch.

Prerequisites

- Before using Text Moderation, you need to apply for the service and complete authentication. For details, see [Getting Started with Moderation \(Image\)](#).
- By default, the maximum number of concurrent API calls is 10. To increase concurrency, contact Huawei technical support.

URI

URI format

POST /v1.0/moderation/image/batch/jobs

Request Message

[Table 4-7](#) describes the request parameters. Each user can keep a maximum number of 20 uncompleted jobs.

Table 4-7 Request parameters

Parameter	Mandatory	Type	Description
urls	Yes	Array	<p>Indicates the URL of an image. The options are as follows:</p> <ul style="list-style-type: none"> • HTTP/HTTPS URLs on the public network • HUAWEI CLOUD OBS URLs. To use OBS data, authorization is required, including service authorization, temporary authorization, and anonymous public authorization. For details, see Configuring the Access Permission of OBS. <p>NOTE You can configure a maximum of 500 URLs. The API response time depends on the image download time. If the image download takes a long time, the API call will fail. Ensure that the storage service where the image to be detected resides is stable and reliable. You are advised to use HUAWEI CLOUD OBS.</p>

Parameter	Mandatory	Type	Description
categories	No	Array	<p>Indicates the detection scenario.</p> <ul style="list-style-type: none"> ● politics: checks whether political figures exist. ● terrorism: checks whether any sensitive person involved in political affairs, terrorism-related content, or sensitive political information exists. ● porn: checks whether pornographic elements exist. ● ad: checks whether advertisements exist. ● all: checks all elements in the politics, terrorism, and porn scenarios. <p>You can set the parameter to the preceding values to check the corresponding elements.</p> <p>If this parameter is left blank or does not exist, both politics and terrorism scenarios are checked, but the porn scenario is not included.</p>
threshold	No	Number	For details, see the threshold parameter description .

Response Message

[Table 4-8](#) describes the response parameters.

Table 4-8 Response parameters

Parameter	Type	Description
result	Object	<p>Indicates the calling result when the API is successfully called.</p> <p>This parameter is not included when the API fails to be called.</p>
job_id	String	Indicates the IDs of a batch of video moderation jobs, which are used for result query.
error_code	String	<p>Indicates the error code of a failed API call. For details, see Error Codes.</p> <p>This parameter is not included when the API is successfully called.</p>
error_msg	String	<p>Indicates the error message of a failed API call.</p> <p>This parameter is not included when the API is successfully called.</p>

Examples

- Example request**
 POST https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/image/batch/jobs
 Request Header:
 Content-Type:application/json
 X-Auth-Token:
 MIINRwYJKoZlHvcNAQcCoIINODCCDTQCAQExDTALBgIghkgBZQMEAgEwgguVBgkqhkiG...

 Request Body:

```
{
  "urls": ["https://BucketName.obs.myhuaweicloud.com/ObjectName",
    "https://BucketName.obs.myhuaweicloud.com/ObjectName1"],
  "categories": [
    "politics",
    "terrorism",
    "porn"
  ]
}
```
- Example successful response**

```
{
  "result": {
    "job_id": "44d93b70-db01-4f96-a618-2a79c964c4b2"
  }
}
```
- Example failed response**

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

Status Code

- Normal
200
- Abnormal

Return Value	Description
400	<ul style="list-style-type: none"> The request cannot be understood by the server due to malformed syntax. The client should not repeat the request without modifications. The request parameter is incorrect.
401	The request requires user authentication.
403	No operation permission.
404	The server has not found anything matching the Request-URI.
500	The server encountered an unexpected condition which prevented it from fulfilling the request.

4.2.3.2 Result Query

Function

This API queries the result of a batch image moderation job. If the batch job is executed successfully, the detailed moderation result of each image is returned. The batch job will not fail upon the failure of a single image.

NOTE

The jobs will be stored on the cloud for a maximum of 30 minutes. You are advised to perform a periodic query every 30 seconds after the batch job is submitted.

Prerequisites

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

URI

URI format

GET /v1.0/moderation/image/batch?job_id={job_id}

Request Message

[Table 4-9](#) describes the request parameters.

Table 4-9 Request parameters

Parameter	Mandatory	Type	Description
job_id	Yes	String	Indicates the job ID.

Response Message

[Table 4-10](#) describes the response parameters.

Table 4-10 Response parameters

Parameter	Type	Description
result	Object	Indicates the calling result when the API is successfully called. For details about the parameters in the result and their formats, see Table 4-11 . This parameter is not included when the API fails to be called.
items	Array	Indicates the list of image moderation results. For details about the parameters in the result and their formats, see Table 4-12 .

Parameter	Type	Description
error_code	String	Indicates the error code returned when the API fails to be called. For details about the error code, see Error Codes . This parameter is not included when the API is successfully called.
error_msg	String	Indicates the error message of a failed API call. This parameter is not included when the API is successfully called.

Table 4-11 result parameters

Parameter	Type	Description
job_id	String	Indicates the job ID.
status	String	Indicates the job status. Possible values are as follows: created : indicates that a job is created. running : indicates that a job is being processed. finish : indicates that a job is completed. failed : indicates that a job fails to be processed.
create_time	String	Indicates the time when a job is created. For example, 2018-01-02T15:03:04Z .
update_time	String	Indicates the time when a job is updated. For example, 2018-01-02T15:03:04Z .

Table 4-12 items parameters

Parameter	Type	Description
url	String	Indicates the URL of an image.
suggestion	String	For details, see the suggestion parameter in Table 4-4 .
detail	Object	For details, see the detail parameter in Table 4-4 .
confidence	Number	For details, see the confidence parameter in Table 4-4 .
face_detail	List	For details, see the face_detail parameter in Table 4-4 .
label	String	For details, see the label parameter in Table 4-4 .

Examples

- Example request

```
GET https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/image/batch?job_id={job_id}
```

Request Header:

Content-Type:application/json

X-Auth-Token:

MIINRwYJKoZlIhvcNAQcCoIINODCCDTQCAQExDTALBglghkgBZQMEAgEwgguVBgkqhkiG...

- Example successful response (processing)

```
{
  "result":{
    "job_id": "53ba32e2-c96a-4d0a-a1df-6ddc75f40aed",
    "status": "running",
    "create_time": "2018-11-22T06:17:09Z",
    "update_time": "2018-11-22T06:17:16Z"
  }
}
```

- Example successful response (processed)

```
{
  "result": {
    "job_id": "44d93b70-db01-4f96-a618-2a79c964c4b2",
    "status": "finish",
    "create_time": "2018-01-02T15:03:04Z",
    "update_time": "2018-01-02T15:03:04Z",
    "items": [
      {
        "url": "https://obs-test-llg.obs.myhuaweicloud.com/terrorism",
        "suggestion": "pass",
        "detail": {
          "politics": [],
          "terrorism": [
            {
              "confidence": 0,
              "label": "fire"
            },
            {
              "confidence": 0.0268,
              "label": "normal"
            }
          ]
        }
      },
      {
        "url": "https://obs-test-llg.obs.myhuaweicloud.com/clarity-detect",
        "suggestion": "pass",
        "detail": {
          "politics": [],
          "terrorism": [
            {
              "confidence": 0,
              "label": "knife"
            },
            {
              "confidence": 0,
              "label": "terrorist"
            },
            {
              "confidence": 0.3086,
              "label": "bloody"
            },
            {
              "confidence": 0.6914,
              "label": "normal"
            }
          ]
        }
      }
    ]
  }
}
```

```

    ]
  }
}

```

- Example failed response

```

{
  "error_code": "AIS.0005",
  "error_msg": "The service does not exist."
}

```

Status Code

- Normal
200
- Abnormal

Table 4-13

Return Value	Description
400	<ul style="list-style-type: none"> • The request cannot be understood by the server due to malformed syntax. The client should not repeat the request without modifications. • The request parameter is incorrect.
401	The request requires user authentication.
403	No operation permission.
404	The server has not found anything matching the Request-URI.
500	The server encountered an unexpected condition which prevented it from fulfilling the request.

4.2.3.3 Job List Query

Function

This API queries a batch of image moderation jobs. You can specify the job status to filter the jobs.

Prerequisites

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

URI

URI format

GET /v1.0/moderation/image/batch/jobs?status={status_type}

Request Message

[Table 4-14](#) describes the request parameters.

Table 4-14 Request parameters

Parameter	Mandatory	Type	Description
status	No	String	Indicates the job status. Possible values are as follows: <ul style="list-style-type: none">● created: indicates that a job is created.● running: indicates that a job is being processed.● finish: indicates that a job is completed.● failed: indicates that a job fails to be processed.

Response Message

[Table 4-15](#) describes the response parameters.

Table 4-15 Response parameters

Parameter	Type	Description
result	Array	Indicates the calling result when the API is successfully called. This parameter is not included when the API fails to be called.
job_id	String	Indicates the job ID.
status	String	Indicates the job status. Possible values are as follows: <ul style="list-style-type: none">● created: indicates that a job is created.● running: indicates that a job is being processed.● finish: indicates that a job is completed.● failed: indicates that a job fails to be processed.
create_time	String	Indicates the time when a job is created. For example, 2018-01-02T15:03:04Z .
update_time	DateTime	Indicates the time when a job is updated. For example, 2018-01-02T15:03:04Z .

Parameter	Type	Description
error_code	String	Indicates the 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	Indicates the error message of a failed API call. This parameter is not included when the API is successfully called.

Examples

- Example request**
 GET https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/image/batch/jobs?status=finish

 Request Header:
 Content-Type:application/json
 X-Auth-Token:
 MIINRwYJKoZlIhvcNAQcCoIINODCCDTQCAQExDTALBgIghkgBZQMEAgEwgggVBgkqhkiG...
- Example successful response**

```
{
  "result": [
    {
      "job_id": "53ba32e2-c96a-4d0a-a1df-6ddc75f40aed",
      "status": "finish",
      "create_time": "2018-11-22T06:17:09Z",
      "update_time": "2018-11-22T06:17:16Z"
    }
  ]
}
```
- Example failed response**

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

Status Code

- Normal
200
- Abnormal

Return Value	Description
400	<ul style="list-style-type: none"> The request cannot be understood by the server due to malformed syntax. The client should not repeat the request without modifications. The request parameter is incorrect.
401	The request requires user authentication.
403	No operation permission.

Return Value	Description
404	The server has not found anything matching the Request-URI.
500	The server encountered an unexpected condition which prevented it from fulfilling the request.

4.2.4 Moderation Feedback

Function

If you find that the result of Image Moderation is not as expected, you can call this API to report the image and expected moderation result to Image Moderation. The feedback will be used for optimizing Image Moderation.

 **NOTE**

The HUAWEI CLOUD account information and region information for calling this API must be the same as those for calling the Image Moderation APIs.

URI

URI format

POST /v1.1/moderation/image/feedback

Request Message

[Table 4-16](#) describes the request parameters.

Table 4-16 Request parameters

Parameter	Mandatory	Type	Description
suggestion	Yes	String	<p>Indicates whether the check is passed.</p> <p>block: indicates that sensitive information is detected and the information fails to pass the check.</p> <p>pass: indicates that no sensitive information is detected and the information passes the check.</p> <p>NOTE The feedback other than block pass is meaningless for algorithm optimization.</p>

Parameter	Mandatory	Type	Description
image	Configure either this parameter or url .	String	Indicates the Base64 character string converted from the image for feedback. The size cannot exceed 10 MB. In the politics scenario, the face of a political figure must be greater than or equal to 50 x 50 pixels. The supported image formats include JPG, PNG, and BMP.
url	Configure either this parameter or image .	String	Indicates the URL of the image for feedback. The options are as follows: <ul style="list-style-type: none"> • HTTP/HTTPS URLs on the public network • HUAWEI CLOUD OBS URLs. To use OBS data, authorization is required, including service authorization, temporary authorization, and anonymous public authorization. For details, see Configuring the Access Permission of OBS.
categories	No	Array	Indicates the moderation scenario of the feedback. <ul style="list-style-type: none"> • politics: checks whether political figures exist. • terrorism: checks whether terrorism-related content or sensitive political information exists. • porn: checks whether pornographic elements exist. • ad: checks whether advertisements exist (in the open beta test). • all: checks all elements in the politics, terrorism, and porn scenarios. <p>If the parameter is left blank, the default values, politics and terrorism, are used.</p>

Response Message

[Table 4-17](#) describes the response parameters.

Table 4-17 Response parameters

Parameter	Type	Description
result	String	If the API is successfully called, the value of this field is Thank you for your feedback . This parameter is not included when the API fails to be called.
error_code	String	Indicates the 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	Indicates the error message of a failed API call. This parameter is not included when the API is successfully called.

Examples

- Example request (Method 1: Use a Base64-encoded image.)**
 POST https://moderation.cn-north-1.myhuaweicloud.com/v1.1/moderation/image/feedback
 Request Header:
 Content-Type:application/json
 X-Auth-Token:
 MIINRwYJKoZlIhvcNAQcCoIINODCCDTQCAQExDTALBglghkgBZQMEAgEwggguVBgkqhkiG...
 Request Body:

```
{
  "url" : "",
  "image" : "/9j/4AAQSkZJRgABAgEASABIAAD/
  4RFZRXhpZgAATU0AKgAAAABwESAAMAAAABAEEAAAEAAUAAAABAAAAYgEBAAUAAAABAAA...",
  "categories":[
    "politics"
    "terrorism"
    "porn",
  ],
  "suggestion" : "block"
}
```
- Example request (Method 2: Use the URL redirecting to the image file.)**
 POST https://moderation.cn-north-1.myhuaweicloud.com/v1.1/moderation/image/feedback
 Request Header:
 Content-Type:application/json
 X-Auth-Token:
 MIINRwYJKoZlIhvcNAQcCoIINODCCDTQCAQExDTALBglghkgBZQMEAgEwggguVBgkqhkiG...
 Request Body:

```
{
  "url" : "https://BucketName.obs.myhuaweicloud.com/ObjectName",
  "image" : "",
  "categories":[
    "politics"
    "terrorism"
    "porn",
  ],
  "suggestion" : "block"
}
```
- Example successful response**

```
{
  "result": "Thank you for your feedback."
}
```

- Example failed response

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

Status Code

- Normal
200
- Abnormal

Return Value	Description
400	<ul style="list-style-type: none">• The request cannot be understood by the server due to malformed syntax. The client should not repeat the request without modifications.• The request parameter is incorrect.
401	The request requires user authentication.
403	No operation permission.
404	The server has not found anything matching the Request-URI.
500	The server encountered an unexpected condition which prevented it from fulfilling the request.

5 Deprecated APIs

5.1 Distortion Correction (Deprecated)

Function

This API only identifies whether the original image of an enterprise form is distorted, and corrects the distortion.

Prerequisites

By default, the maximum number of concurrent API calls is 3. To increase concurrency, contact Huawei technical support.

URI

URI format

POST /v1.0/moderation/image/distortion-correct

Request Message

[Table 5-1](#) describes the request parameters.

Table 5-1 Request parameters

Parameter	Mandatory	Type	Description
image	Configure either this parameter or url .	String	Indicates the Base64 character string converted from the image. The size cannot exceed 10 MB. The supported image formats include JPG, PNG, and BMP.

Parameter	Mandatory	Type	Description
url	Configure either this parameter or image .	String	<p>Indicates the URL of an image. The options are as follows:</p> <ul style="list-style-type: none"> • HTTP/HTTPS URLs on the public network • HUAWEI CLOUD OBS URLs. To use OBS data, authorization is required, including service authorization, temporary authorization, and anonymous public authorization. For details, see Configuring the Access Permission of OBS. <p>NOTE The API response time depends on the image download time. If the image download takes a long time, the API call will fail. Ensure that the storage service where the image to be detected resides is stable and reliable. You are advised to use HUAWEI CLOUD OBS.</p>
correction	No	Boolean	<p>Indicates whether to perform image distortion correction.</p> <ul style="list-style-type: none"> • true: indicates that image distortion correction will be performed. It is the default value. • false: indicates that image distortion correction will not be performed.

Response Message

[Table 5-2](#) describes the response parameters.

Table 5-2 Response parameters

Parameter	Type	Description
result	Object	<p>Indicates the calling result when the API is successfully called.</p> <p>This parameter is not included when the API fails to be called.</p>

Parameter	Type	Description
distortion	Boolean	Indicates the identification result. <ul style="list-style-type: none"> • true: indicates that the image is distorted. • false: indicates that the image is not distorted.
data	String	Indicates the image after distortion correction, which is a Base64 character string converted from the image. If the image is not distorted, no distortion correction is required, or the output parameter indicates that no distortion correction is required. In this case, the return value is a null string.
error_code	String	Indicates the error code when the API fails to be called. For details, see Error Codes . This parameter is not included when the API is successfully called.
error_msg	String	Indicates the error message when the API fails to be called. This parameter is not included when the API is successfully called.

Examples

- Example request (Method 1: Use a Base64-encoded image.)**
 POST https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/image/distortion-correct

Request Header:
 Content-Type:application/json
 X-Auth-Token:
 MIINRwYJKoZIHvcNAQcCoIINODCCDTQCAQExDTALBglghkgBZQMEAgEwgguVBgkqhkiG...

Request Body:

```
{
  "image":"/9j/4AAQSkZJRgABAgEASABIAAD/
4RFZRXhpZgAATU0AKgAAAABwESAAMAAAABAAEAAAEaAAUAAAABAAAAYgEBAAUAAAABAAAAG
EoAAMAAAABAAIAAAExAAIAAAACAAAACgEyAAIAAAAUAAAQAAAAABAAAAPAAAANAACvyAAA
AnEAAK/
IAAACcQQRvYmUgUGhvdG9zaG9wIENTMyBXaW5kb3dzADlwMTc6MTA6MjAgMTA6NDU6MzYAAAA
AA6ABAAMAAAAB//
8AAKACAAQAAAABAAALIKADAAQAAAAABAAAGQAAAAAAAAAAGAQMAAwAAAAEABgAAARoABQAAA
AEAAAEEARsABQAAAAEAAAEASgAAwAAAAEAAgAAAgEABAAAAEAAAEuAglABAAAAEAAABAj...",
  "url": "",
  "correction":true
}
```
- Example request (Method 2: Use the URL redirecting to the image file.)**
 POST https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/image/distortion-correct

Request Header:
 Content-Type:application/json
 X-Auth-Token:
 MIINRwYJKoZIHvcNAQcCoIINODCCDTQCAQExDTALBglghkgBZQMEAgEwgguVBgkqhkiG...

Request Body:

```
{
  "image": "",
  "url": "https://BucketName.obs.myhuaweicloud.com/ObjectName",
}
```

```
"correction":true
}
```

- Example successful response

```
{
  "result":{
    "distortion": true,
    "data": "/9j/4AAQSkZJRgABAgEASABIAAD/
4RFZRXhpZgAATU0AKgAAAagABwESAAMAAAABAAEAAAEaAAUAAAABAAA..."
  }
}
```

- Example failed response

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

Status Code

- Normal
200
- Abnormal

Return Value	Description
400	<ul style="list-style-type: none">• The request cannot be understood by the server due to malformed syntax. The client should not repeat the request without modifications.• The request parameter is incorrect.
401	The request requires user authentication.
403	No operation permission.
404	The server has not found anything matching the Request-URI.
500	The server encountered an unexpected condition which prevented it from fulfilling the request.

5.2 Image Clarity Detect (Deprecated)

Function

This API only identifies whether the original image of an enterprise form is clear or blurred, helping enterprises build the image moderation system.

Prerequisites

By default, the maximum number of concurrent API calls is 3. To increase concurrency, contact Huawei technical support.

URI

URI format

POST /v1.0/moderation/image/clarity-detect

Request Message

[Table 5-3](#) describes the request parameters.

Table 5-3 Request parameters

Parameter	Mandatory	Type	Description
image	Configure either this parameter or url .	String	Indicates the Base64 character string converted from the image. The size cannot exceed 10 MB. The supported image formats include JPG, PNG, and BMP.
url	Configure either this parameter or image .	String	Indicates the URL of an image. The options are as follows: <ul style="list-style-type: none">• HTTP/HTTPS URLs on the public network• HUAWEI CLOUD OBS URLs. To use OBS data, authorization is required, including service authorization, temporary authorization, and anonymous public authorization. For details, see Configuring the Access Permission of OBS. NOTE The API response time depends on the image download time. If the image download takes a long time, the API call will fail. Ensure that the storage service where the image to be detected resides is stable and reliable. You are advised to use HUAWEI CLOUD OBS.
threshold	No	Number	Indicates the threshold for determining whether an image is clear. The value ranges from 0 to 1. If this parameter is left unspecified, the default value 0.8 prevails.

Response Message

[Table 5-4](#) describes the response parameters.

Table 5-4 Response parameters

Parameter	Type	Description
result	Object	Indicates the calling result when the API is successfully called. This parameter is not included when the API fails to be called.

Parameter	Type	Description
category	String	Indicates the detection result. <ul style="list-style-type: none"> • clarity: indicates that the detected image is clear. • blur: indicates that the detected image is blurred.
detail	List	Indicates the check result details.
label	String	Indicates the detection label. <ul style="list-style-type: none"> • clarity: indicates the label for clear images. • blur: indicates the label for blurred images.
confidence	Number	Indicates the confidence score. The value ranges from 0 to 1.
error_code	String	Indicates the error code when the API fails to be called. For details, see Error Codes . This parameter is not included when the API is successfully called.
error_msg	String	Indicates the error message when the API fails to be called. This parameter is not included when the API is successfully called.

Examples

- Example request (Method 1: Use a Base64-encoded image.)**
 POST <https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/image/clarity-detect>

Request Header:
 Content-Type:application/json
 X-Auth-Token:
 MIINRwYJKoZlIhvcNAQcCoIINODCCDTQCAQExDTALBgIghkgBZQMEAgEwgguVBgkqhkiG...

Request Body:

```
{
  "image": "/9j/4AAQSkZJRgABAgEASABIAAD/
  4RFZRXhpZgAATU0AKgAAAQABWESAMAAAABAAEAAAEEaAAUAAAABAAAAYgEBAAUAAAABAAAAG
  EoAAMAAAABAAIAAAExAAIAAAAcAAAQcEYAAIAAAAUAAAjodpAAQAAAABAAAAPAAAANAAACvyAAA
  AnEAAK/
  IAAACcQQWRvYmUgUGhvdG9zaG9wIENTMXBxW5kb3dzADlwMTc6MTA6MjAgMTA6NDU6MzYAAAA
  AA6ABAAMAAAAB//
  8AAKACAAQAAAABAAALIKADAAQAAAABAAAGQAAAAAAAAAAGAQMAAwAAAAEABgAAARoABQAAA
  AEAAAEEARsABQAAAAEAAAEAAASgAAwAAAAEAAAGAAAGABAAAAEAAAEuAglABAAAAEAAABAj...",
  "url": "",
  "threshold": 0.8
}
```
- Example request (Method 2: Use the URL redirecting to the image file.)**
 POST <https://moderation.cn-north-1.myhuaweicloud.com/v1.0/moderation/image/clarity-detect>

Request Header:
 Content-Type:application/json
 X-Auth-Token:
 MIINRwYJKoZlIhvcNAQcCoIINODCCDTQCAQExDTALBgIghkgBZQMEAgEwgguVBgkqhkiG...

Request Body:

```
{
  "image": "",
  "url": "https://BucketName.obs.myhuaweicloud.com/ObjectName",
  "threshold": 0.8
}
```

- Example successful response

```
{
  "result": {
    "category": "blur",
    "detail": [
      {
        "label": "clarity",
        "confidence": 0.2907
      },
      {
        "label": "blur",
        "confidence": 0.7093
      }
    ]
  }
}
```

- Example failed response

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

Status Code

- Normal
200
- Abnormal

Return Value	Description
400	<ul style="list-style-type: none">• The request cannot be understood by the server due to malformed syntax. The client should not repeat the request without modifications.• The request parameter is incorrect.
401	The request requires user authentication.
403	No operation permission.
404	The server has not found anything matching the Request-URI.
500	The server encountered an unexpected condition which prevented it from fulfilling the request.

6 Application Examples

6.1 Text Moderation

- Sample code for a Python 3 request

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

url = "https://{endpoint}/v1.0/moderation/image"
token = "Actual token value obtained by the user"
headers = {'Content-Type': 'application/json', 'X-Auth-Token': token}
data= {
    "categories": ['ad', 'politics', 'porn', 'abuse', 'contraband', 'flood'],
    "items": [
        {"text": "666666 nude chat+call 999account123456,fuck6666666666666666", "type": "content"}
    ]
}

response = requests.post(url, headers=headers, json=data, verify=False)
print(response.content.decode('unicode_escape'))
```

- Sample code for a Java request

```
package com.huawei.ais.demo;
import com.alibaba.fastjson.JSON;
import com.alibaba.fastjson.JSONArray;
import com.alibaba.fastjson.serializer.SerializerFeature;
import com.huawei.ais.sdk.util.HttpClientUtils;

import java.io.IOException;
import java.net.URISyntaxException;

import org.apache.http.Header;
import org.apache.http.HttpResponse;
import org.apache.http.entity.StringEntity;
import com.alibaba.fastjson.JSONObject;

import org.apache.http.entity.ContentType;
import org.apache.http.message.BasicHeader;

/**
 * This demo is used only for tests. You are advised to use the SDK.
 * Before using this demo, configure the dependent JAR package. Obtain this package by downloading
 the SDK.
 */

public class TextModerationDemo {
    public static void main(String[] args) throws URISyntaxException, UnsupportedOperationException,
```

```
IOException{
    TokenDemo();
}

public static void TokenDemo() throws URISyntaxException, UnsupportedOperationException,
IOException {

    String url = "https://{endpoint}/v1.0/moderation/text";
    String token = "Actual token value obtained by the user";

    JSONObject params = new JSONObject();
    try {
        params.put("categories", new String[] {"porn","politics", "ad", "abuse", "contraband",
"flood"});

        JSONObject text = new JSONObject();
        text.put("text", "666666 nude chat+call 999account123456,fuck6666666666666666");
        text.put("type", "content");

        JSONArray items = new JSONArray();
        items.add(text);

        params.put("items", items);
        Header[] headers = new Header[]{new BasicHeader("X-Auth-Token", token), new
BasicHeader("Content-Type", ContentType.APPLICATION_JSON.toString())};
        StringEntity stringEntity = new StringEntity(params.toString(), "utf-8");
        HttpResponse response = HttpClientUtils.post(url, headers, stringEntity);
        JSONObject jsonObject =
JSON.parseObject(HttpClientUtils.convertStreamToString(response.getEntity().getContent()));
        System.out.println(JSON.toJSONString(jsonObject, SerializerFeature.PrettyFormat));
    }
    catch (Exception e) {
        e.printStackTrace();
    }
}
}
```

- Sample code for a PHP request

```
<?php

function TokenRequest() {
    $url = "https://{endpoint}/v1.0/moderation/text";
    $token = "Actual token value obtained by the user";

    $items = array(
        array(
            "text" => "666666 nude chat+call 999account123456,fuck6666666666666666",
            "type" => "content"
        )
    );
    $categories = array("ad", "abuse", "politics", "porn", "contraband");
    $data = array(
        "categories" => $categories,
        "items" => $items,
    );
    $curl = curl_init();
    $headers = array(
        "Content-Type:application/json",
        "X-Auth-Token:" . $token
    );

    /* Setting the request body */
    curl_setopt($curl, CURLOPT_URL, $url);
    curl_setopt($curl, CURLOPT_HTTPHEADER, $headers);
    curl_setopt($curl, CURLOPT_POST, 1);
    curl_setopt($curl, CURLOPT_POSTFIELDS, json_encode($data));
    curl_setopt($curl, CURLOPT_RETURNTRANSFER, TRUE);
    curl_setopt($curl, CURLOPT_NOBODY, FALSE);
    curl_setopt($curl, CURLOPT_SSL_VERIFYPEER, false);
```

```
curl_setopt($curl, CURLOPT_TIMEOUT, 30);

$response = curl_exec($curl);
$status = curl_getinfo($curl, CURLINFO_HTTP_CODE);
curl_close($curl);
echo $response;
}
TokenRequest();
```

Table 6-1 Parameter description

Parameter	Description
url	API request URL, for example, <code>https://{endpoint}/v1.0/moderation/image</code> .
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 .

6.2 Image Moderation

- Sample code for a Python 3 request

```
# encoding:utf-8

import requests
import base64

url = "https://{endpoint}/v1.0/moderation/image"
token = "Actual token value obtained by the user"
headers = {'Content-Type': 'application/json', 'X-Auth-Token': token}

imagepath = r'data/moderation-terrorism.jpg'
with open(imagepath, "rb") as bin_data:
    image_data = bin_data.read()
image_base64 = base64.b64encode(image_data).decode("utf-8") # Use Base64 encoding of images.
data= {"image": image_base64, "categories": ["porn", "politics", "terrorism", "ad"]} # Set either the
URL or the image.

response = requests.post(url, headers=headers, json=data, verify=False)
print(response.text)
```

- Sample code for a Java request

```
package com.huawei.ais.demo;
import com.huawei.ais.sdk.util.HttpClientUtils;

import java.io.File;
import java.io.IOException;
import java.net.URISyntaxException;

import org.apache.http.Header;
import org.apache.http.HttpResponse;
import org.apache.http.entity.StringEntity;
import org.apache.commons.codec.binary.Base64;
import org.apache.commons.io.FileUtils;
import org.apache.commons.io.IOUtils;
import com.alibaba.fastjson.JSONObject;

import org.apache.http.entity.ContentType;
import org.apache.http.message.BasicHeader;
```

```
/**
 * This demo is used only for tests. You are advised to use the SDK.
 * Before using this demo, configure the dependent JAR package. Obtain this package by downloading
 the SDK.
 */

public class ImageModerationDemo {
    public static void main(String[] args) throws URISyntaxException, UnsupportedOperationException,
IOException{
        TokenDemo();
    }

    public static void TokenDemo() throws URISyntaxException, UnsupportedOperationException,
IOException {

        String url = "https://{endpoint}/v1.0/moderation/image";
        String token = "Actual token value obtained by the user";
        String imgPath = "data/moderation-terrorism.jpg"; //File path or URL of the image to be
recognized.

        JSONObject params = new JSONObject();
        try {
            params.put("categories", new String[] {"politics", "terrorism", "porn", "ad"}); // Content for
moderation
            if (imgPath.indexOf("http://") != -1 || imgPath.indexOf("https://") != -1) {
                params.put("url", imgPath);
            } else {
                byte[] fileData = FileUtils.readFileToByteArray(new File(imgPath));
                String fileBase64Str = Base64.encodeBase64String(fileData);
                params.put("image", fileBase64Str);
            }

            Header[] headers = new Header[]{new BasicHeader("X-Auth-Token", token), new
BasicHeader("Content-Type", ContentType.APPLICATION_JSON.toString())};
            StringEntity stringEntity = new StringEntity(params.toString(), "utf-8");
            HttpResponse response = HttpClientUtils.post(url, headers, stringEntity);
            String content = IOUtils.toString(response.getEntity().getContent(), "utf-8");
            System.out.println(content);
        }
        catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

- Sample code for a PHP request

```
<?php

function TokenRequest() {
    $url = "https://{endpoint}/v1.0/moderation/image";
    $token = "Actual token value obtained by the user";
    $imagePath = __DIR__.'data/moderation-terrorism.jpg';

    $data = array();
    if (stripos($imagePath, 'http://') !== false || stripos($imagePath, 'https://') !== false) {
        $data['url'] = $imagePath;
    } else {
        if($fp = fopen($imagePath,"rb", 0))
        {
            $gambar = fread($fp,filesize($imagePath));
            fclose($fp);

            $fileBase64 = chunk_split(base64_encode($gambar));
        } else {
            echo "Failed to read the image.";
            return;
        }
        $data['image'] = $fileBase64;
    }
}
```

```
$data['categories'] = array("politics", "terrorism", "porn", "ad");

$curl = curl_init();
$headers = array(
    "Content-Type:application/json",
    "X-Auth-Token:" . $token
);

/* Setting the request body */
curl_setopt($curl, CURLOPT_URL, $url);
curl_setopt($curl, CURLOPT_HTTPHEADER, $headers);
curl_setopt($curl, CURLOPT_POST, 1);
curl_setopt($curl, CURLOPT_POSTFIELDS, json_encode($data));
curl_setopt($curl, CURLOPT_RETURNTRANSFER, TRUE);
curl_setopt($curl, CURLOPT_NOBODY, FALSE);
curl_setopt($curl, CURLOPT_SSL_VERIFYPEER, false);
curl_setopt($curl, CURLOPT_TIMEOUT, 30);

$response = curl_exec($curl);
$status = curl_getinfo($curl, CURLINFO_HTTP_CODE);
curl_close($curl);
echo $response;
}

TokenRequest();
```

Table 6-2 Parameter description

Parameter	Description
url	API request URL, for example, <code>https://{endpoint}/v1.0/moderation/image</code> .
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.

A Appendix

A.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 times 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 exists, 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.

A.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 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 .
400	AIS.0005	The service does not exist.	The service does not exist.	The service does not exist.

Status Code	Error Code	Error	Description	Handling Measure
400	AIS.0007	The service has not been enabled yet.	The service has not been enabled yet.	Subscribe 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	The request parameter is missing or left 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 the request method.
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.
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.

Status Code	Error Code	Error	Description	Handling Measure
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.
400	AIS.0030	Failed to find the job.	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.

Status Code	Error Code	Error	Description	Handling Measure
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 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.
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 .

Stat us Cod e	Error Code	Error	Description	Handling Measure
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 entered 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 .

Stat us Cod e	Error Code	Error	Description	Handling Measure
400	APIG. 0301	<p>1. Incorrect IAM authentication information: Failed to decrypt the token. Check whether the entered token is complete.</p> <p>2. The validity period of a token is 24 hours. If the token expires, obtain a new token and pass it.</p> <p>3. The AK/SK authentication fails. Check whether the AK/SK is correct and whether the account is restricted due to arrears.</p>	<p>1. Incorrect IAM authentication information: Failed to decrypt the token. Check whether the entered token is complete.</p> <p>2. The validity period of a token is 24 hours. If the token expires, obtain a new token and pass it.</p> <p>3. The AK/SK authentication fails. Check whether the AK/SK is correct and whether the account is restricted due to arrears.</p>	<p>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.</p> <p>token expires: The token expires. Obtain a new token and pass it.</p> <p>verify aksk signature fail: Check whether the AK and SK are correct and whether the account is in arrears.</p>
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	ModelAr ts.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	The API is not subscribed to.	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 .		

A.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 use 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 Content Moderation management console and click **Service Management**. Enable **OBS Authorization**. After the authorization is enabled, you can use the authorized URL to access the service.

Figure A-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.

A.4 Configuring a Custom Dictionary

Content Moderation can effectively identify the pornographic, political, or offensive content, advertisements, contraband, and spamming. You can configure whitelist and blacklist dictionaries for detection.

Background Information

- To configure custom dictionaries, subscribe to Text Moderation first. For details about how to enable a service, see [Applying for a Service](#).
- You can custom dictionaries for free.
- A maximum of 10 custom blacklist dictionaries and one custom whitelist dictionary can be created for an account.
- The custom whitelist dictionary cannot be used in the **flood** scenario.

Creating a Custom Whitelist Dictionary

After subscribing to Text Moderation, you can configure a custom whitelist dictionary. When you use Text Moderation, the words in the custom whitelist dictionary may not be detected.

1. Log in to HUAWEI CLOUD and click **Console** in the upper right corner. The **Console** page is displayed.
2. Click **Service List**, and choose **EI Enterprise Intelligence > Content Moderation**. The **Content Moderation** management console is displayed.
3. In the left navigation pane, choose **Service List > Text Moderation**. Click **Configuration** next to **Custom Whitelist Dictionary**. The **Create Dictionary** dialog box is displayed.

Figure A-2 Create Dictionary

4. Enter a dictionary name and the keywords in the whitelist dictionary. Click **OK**.
 - **Dictionary Name:** A dictionary name contains a maximum of 40 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed.
 - **Add Keyword:** A dictionary contains a maximum of 5,000 keywords. Each keyword consists of a maximum of 40 characters and ends with a carriage return.

 **NOTE**

- The dictionary name cannot be modified.

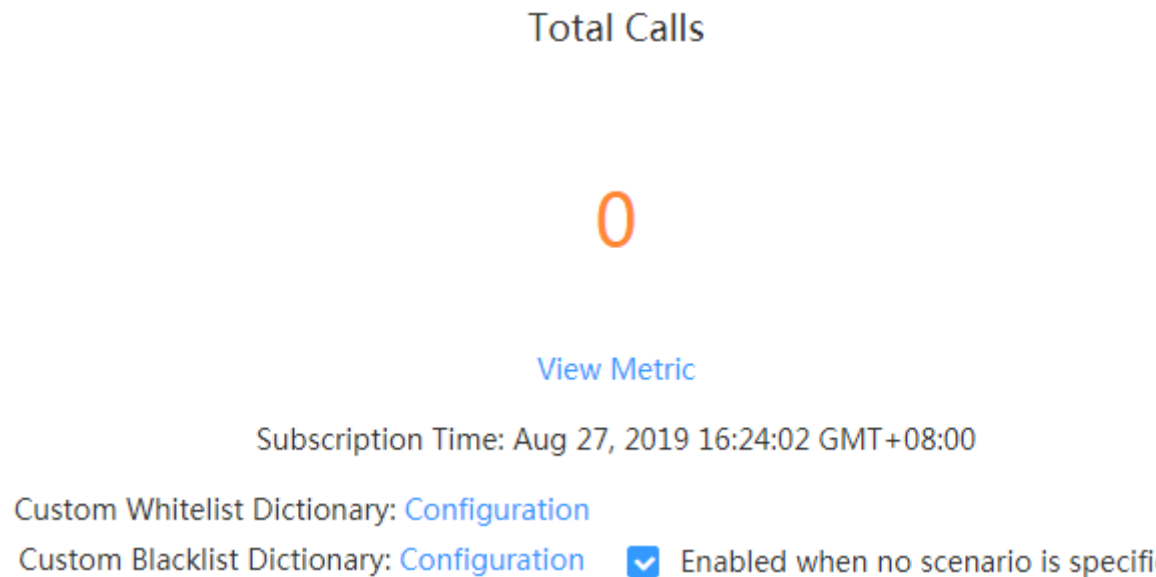
Creating a Custom Blacklist Dictionary

After subscribing to Text Moderation, you can configure a custom blacklist dictionary. When you use Text Moderation, the words in the custom blacklist dictionary will be detected.

1. Log in to HUAWEI CLOUD and click **Console** in the upper right corner. The **Console** page is displayed.
2. Click **Service List**, and choose **EI Enterprise Intelligence > Content Moderation**. The **Content Moderation** management console is displayed.
3. In the left navigation pane, choose **Service List > Text Moderation**. Click **Configuration** next to **Custom Blacklist Dictionary**. The **Custom Dictionary** page is displayed.
4. Click **Create Dictionary** in the upper left corner. The **Create Dictionary** dialog box is displayed. Enter a dictionary name and the keywords in the blacklist dictionary.

- **Dictionary Name:** A dictionary name contains a maximum of 40 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed.
 - **Add Keyword:** A dictionary contains a maximum of 5,000 keywords. Each keyword consists of a maximum of 40 characters and ends with a carriage return.
5. Click **OK**. After the dictionary is created, you can set it in the **categories** parameter.

Figure A-3 Configuring a custom dictionary



Parameter **Enabled when no scenario specified** is optional and is not selected by default.

- Selected: If **categories** is not specified, the default scenario and user-defined scenarios are supported.
- Deselected: If **categories** is not specified, only the default scenario is supported.

 **NOTE**

The dictionary name cannot be modified.

Modifying or Deleting a Custom Dictionary

Modifying or deleting a custom whitelist dictionary

1. Log in to the Content Moderation management console.
2. In the left navigation pane, choose **Service List > Text Moderation**. Click **Configuration** next to **Custom Whitelist Dictionary**. The **Modify Dictionary** dialog box is displayed.
 - Modify the target keywords and click **OK**.
 - Delete the target keywords or clear all keywords, and then click **OK**.

Modifying or deleting a custom blacklist dictionary

1. Log in to the Content Moderation management console.
2. In the left navigation pane, choose **Service List > Text Moderation**. Click **Configuration** next to **Custom Blacklist Dictionary**. The **Custom Dictionary** page is displayed.
 - Click **Modify** in the **Operation** column of the target dictionary. In the dialog box that is displayed, modify the keywords and click **OK**.
 - Click **Delete** in the **Operation** column of the target dictionary. In the dialog box that is displayed, click **OK**.

 **NOTE**

Deleted dictionaries cannot be recovered. Exercise caution when performing this operation.

A.5 Obtaining a Project ID

Obtaining a Project ID from the Console

When calling APIs, you need to specify the project ID in certain URLs. To do so, you need to obtain the project ID first. Perform the following operations to obtain the project ID:

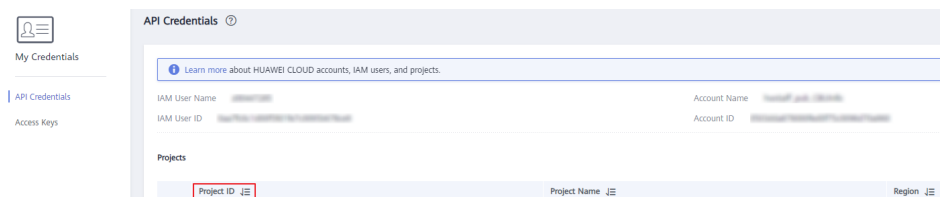
1. Sign up and log in to the ModelArts console.
2. In the upper right corner of the page, click the username and choose **My Credentials** from the drop-down list. The **My Credentials** page is displayed.

 **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. In the **Projects** area of the **API Credentials** page, view the project ID in the project list.

Figure A-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://{Endpoint}/v3/projects**. **{Endpoint}** indicates the IAM endpoint, which can be obtained from [Regions and Endpoints](#).

The following is an example response. For example, if ModelArts is deployed in the **cn-north-4** region, the value of **name** in the response body is **cn-north-4**. The value of **id** in **projects** is the project ID.

```
{
  "projects": [{
    "domain_id": "65382450e8f64ac0870cd180d14e684b",
    "is_domain": false,
    "parent_id": "65382450e8f64ac0870cd180d14e684b",
    "name": "cn-north-4",
    "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"
  }
}
```

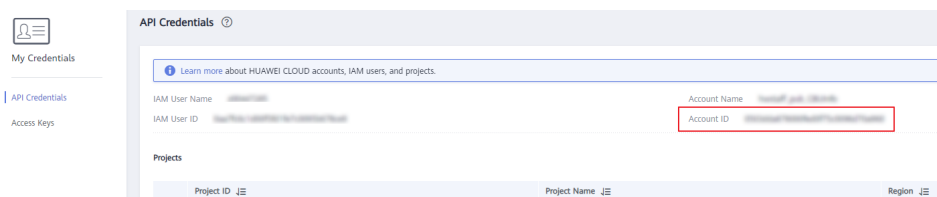
A.6 Obtaining an Account ID

When calling an API, specify the account ID (**domain-id**) in certain URLs. Obtain the account ID on the console. Perform the following operations to obtain the account ID:

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

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

Figure A-5 Viewing the account ID



A.7 Configuring Moderation Rules

You can configure moderation rules for Image Moderation.

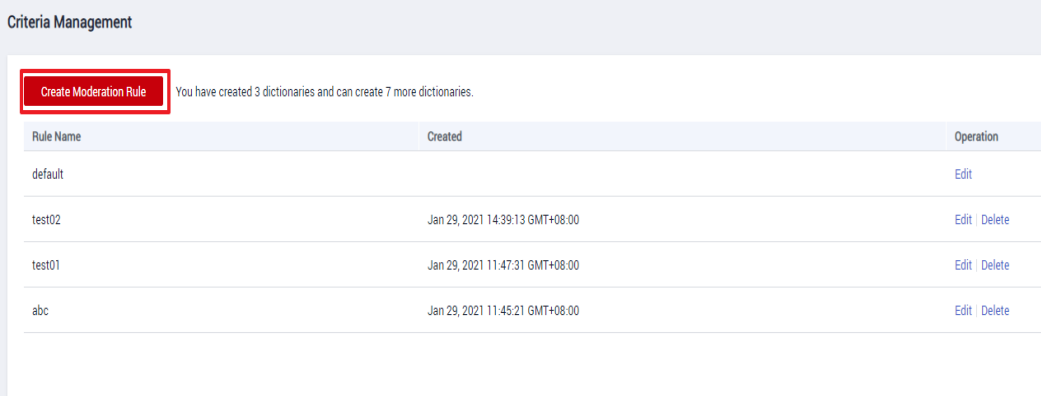
Background Information

- Moderation rules help to detect violent, pornographic, and politically sensitive content based on your requirements.
- A maximum of 10 moderation rules can be created per account.
- A moderation rule name must be unique.

Creating a Moderation Rule

1. On the moderation rule list page, click **Create Moderation Rule**. The **Create Moderation Rule** page is displayed.

Figure A-6 Moderation rule list

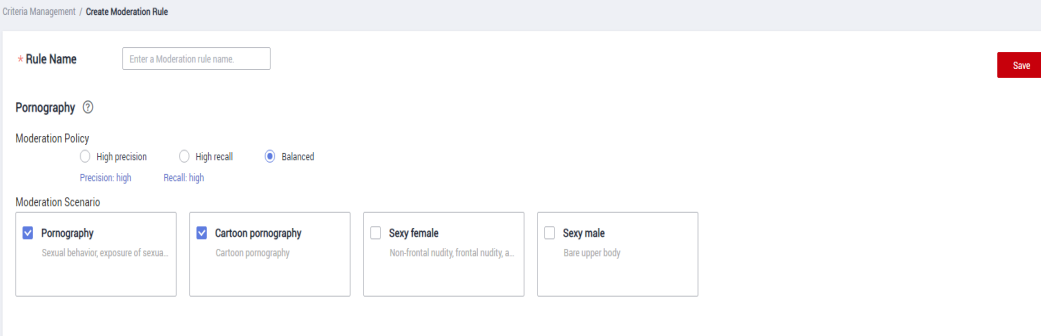


Criteria Management

Create Moderation Rule You have created 3 dictionaries and can create 7 more dictionaries.

Rule Name	Created	Operation
default		Edit
test02	Jan 29, 2021 14:39:13 GMT+08:00	Edit Delete
test01	Jan 29, 2021 11:47:31 GMT+08:00	Edit Delete
abc	Jan 29, 2021 11:45:21 GMT+08:00	Edit Delete

Figure A-7 Creating a moderation rule



Criteria Management / Create Moderation Rule

* Rule Name **Save**

Pornography ⓘ

Moderation Policy

High precision High recall Balanced

Precision: high Recall: high

Moderation Scenario

Pornography Sexual behavior, exposure of sexa...

Cartoon pornography Cartoon pornography

Sexy female Non-frontal nudity, frontal nudity, a...

Sexy male Bare upper body

2. Enter a rule name and select moderation scenarios based on site requirements. Click **Save**.

NOTE

A rule name can contain a maximum of 32 characters. Only letters, digits, hyphens (-), and underscores (_) are allowed. It cannot start with a digit.

Viewing a Moderation Rule

1. Log in to HUAWEI CLOUD and click **Console** in the upper right corner. The **Console** page is displayed.
2. Click **Service List**, and choose **EI Enterprise Intelligence > Content Moderation**. The **Content Moderation** management console is displayed.
3. In the left navigation pane, choose **Criteria Management**. The moderation rule list is displayed.

Criteria Management

Create Moderation Rule You have created 3 dictionaries and can create 7 more dictionaries.

Rule Name	Created	Operation
default		Edit
test02	Jan 29, 2021 14:39:13 GMT+08:00	Edit Delete
test01	Jan 29, 2021 11:47:31 GMT+08:00	Edit Delete
abc	Jan 29, 2021 11:45:21 GMT+08:00	Edit Delete

Editing a Moderation Rule

1. On the moderation rule list page, click **Edit** next to the rule you want to edit. The **Edit Moderation Rule** page is displayed.

Figure A-8 Moderation rule list

Criteria Management

Create Moderation Rule You have created 3 dictionaries and can create 7 more dictionaries.

Rule Name	Created	Operation
default		Edit
test02	Jan 29, 2021 14:39:13 GMT+08:00	Edit Delete
test01	Jan 29, 2021 11:47:31 GMT+08:00	Edit Delete
abc	Jan 29, 2021 11:45:21 GMT+08:00	Edit Delete

Figure A-9 Editing a moderation rule

Criteria Management / Edit Moderation Rule

* Rule Name test02 Save

Pornography ⓘ

Moderation Policy

High precision High recall Balanced

Precision: high Recall: high

Moderation Scenario

Pornography Sexual behavior, exposure of sensa...

Cartoon pornography Cartoon pornography

Sexy female Non-frontal nudity, frontal nudity, a...

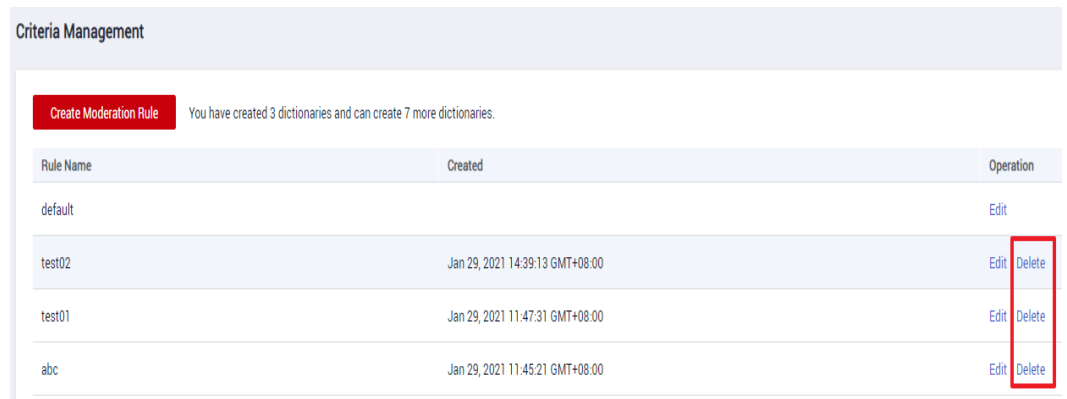
Sexy male Bare upper body

2. Modify the moderation scenarios. Click **Save**.

Deleting a Moderation Rule

1. On the moderation rule list page, click **Delete** next to the rule you want to delete.

Figure A-10 Moderation rule list



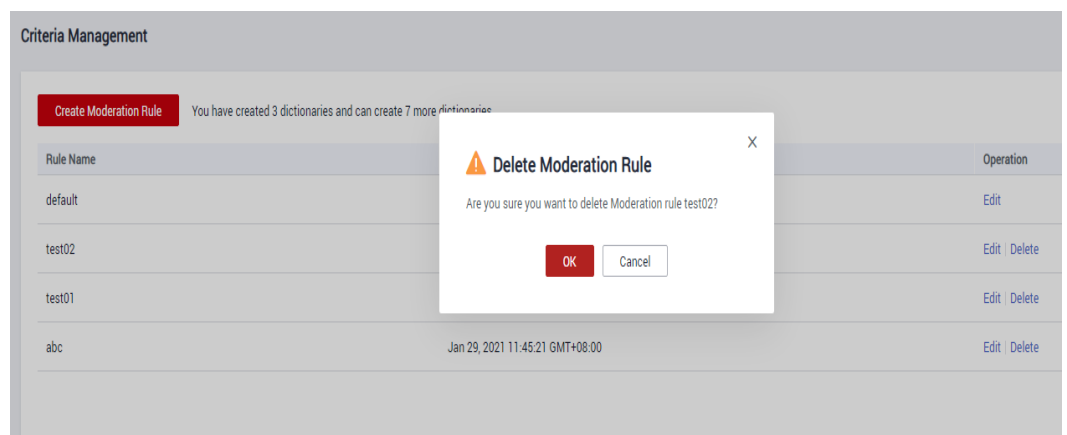
Criteria Management

Create Moderation Rule You have created 3 dictionaries and can create 7 more dictionaries.

Rule Name	Created	Operation
default		Edit
test02	Jan 29, 2021 14:39:13 GMT+08:00	Edit Delete
test01	Jan 29, 2021 11:47:31 GMT+08:00	Edit Delete
abc	Jan 29, 2021 11:45:21 GMT+08:00	Edit Delete

2. Click **OK** in the **Delete Moderation Rule** dialog box.

Figure A-11 Deleting a moderation rule



 **NOTE**

- Deleted moderation rules cannot be recovered. Exercise caution when performing this operation.
- The default moderation rule cannot be deleted.