

# Alibaba Cloud 内容安全

## API Reference (sample library management)

Issue: 20200330

## Legal disclaimer

---

**Alibaba Cloud reminds you to carefully read and fully understand the terms and conditions of this legal disclaimer before you read or use this document. If you have read or used this document, it shall be deemed as your total acceptance of this legal disclaimer.**

- 1. You shall download and obtain this document from the Alibaba Cloud website or other Alibaba Cloud-authorized channels, and use this document for your own legal business activities only. The content of this document is considered confidential information of Alibaba Cloud. You shall strictly abide by the confidentiality obligations. No part of this document shall be disclosed or provided to any third party for use without the prior written consent of Alibaba Cloud.**
- 2. No part of this document shall be excerpted, translated, reproduced, transmitted, or disseminated by any organization, company, or individual in any form or by any means without the prior written consent of Alibaba Cloud.**
- 3. The content of this document may be changed due to product version upgrades, adjustments, or other reasons. Alibaba Cloud reserves the right to modify the content of this document without notice and the updated versions of this document will be occasionally released through Alibaba Cloud-authorized channels. You shall pay attention to the version changes of this document as they occur and download and obtain the most up-to-date version of this document from Alibaba Cloud-authorized channels.**
- 4. This document serves only as a reference guide for your use of Alibaba Cloud products and services. Alibaba Cloud provides the document in the context that Alibaba Cloud products and services are provided on an "as is", "with all faults" and "as available" basis. Alibaba Cloud makes every effort to provide relevant operational guidance based on existing technologies. However, Alibaba Cloud hereby makes a clear statement that it in no way guarantees the accuracy, integrity, applicability, and reliability of the content of this document, either explicitly or implicitly. Alibaba Cloud shall not bear any liability for any errors or financial losses incurred by any organizations, companies, or individuals arising from their download, use, or trust in this document. Alibaba Cloud shall not, under any circumstances, bear responsibility for any indirect, consequent**









ial, exemplary, incidental, special, or punitive damages, including lost profits arising from the use or trust in this document, even if Alibaba Cloud has been notified of the possibility of such a loss.

5. By law, all the contents in Alibaba Cloud documents, including but not limited to pictures, architecture design, page layout, and text description, are intellectual property of Alibaba Cloud and/or its affiliates. This intellectual property includes, but is not limited to, trademark rights, patent rights, copyrights, and trade secrets. No part of this document shall be used, modified, reproduced, publicly transmitted, changed, disseminated, distributed, or published without the prior written consent of Alibaba Cloud and/or its affiliates. The names owned by Alibaba Cloud shall not be used, published, or reproduced for marketing, advertising, promotion, or other purposes without the prior written consent of Alibaba Cloud. The names owned by Alibaba Cloud include, but are not limited to, "Alibaba Cloud", "Aliyun", "HiChina", and other brands of Alibaba Cloud and/or its affiliates, which appear separately or in combination, as well as the auxiliary signs and patterns of the preceding brands, or anything similar to the company names, trade names, trademarks, product or service names, domain names, patterns, logos, marks, signs, or special descriptions that third parties identify as Alibaba Cloud and/or its affiliates.
6. Please contact Alibaba Cloud directly if you discover any errors in this document

.



## Document conventions

Style	Description	Example
	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 <b>Danger:</b> Resetting will result in the loss of user configuration data.
	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 <b>Warning:</b> Restarting will cause business interruption. About 10 minutes are required to restart an instance.
	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Notice:</b> If the weight is set to 0, the server no longer receives new requests.
	A note indicates supplemental instructions, best practices, tips, and other content.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings > Network > Set network type.
<b>Bold</b>	<b>Bold formatting is used for buttons, menus, page names, and other UI elements.</b>	Click <b>OK</b> .
Courier font	<b>Courier font is used for commands.</b>	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	<b>Italic formatting is used for parameters and variables.</b>	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[ ] or [a b]	<b>This format is used for an optional value, where only one item can be selected.</b>	<code>ipconfig [-all -t]</code>

---

Style	Description	Example
<b>{a b}</b>	<b>This format is used for a required value, where only one item can be selected.</b>	<code>switch {active stand}</code>



# Contents

---

<b>Legal disclaimer</b> .....	<b>I</b>
<b>Document conventions</b> .....	<b>I</b>
<b>1 Development preparations</b> .....	<b>1</b>
<b>2 List of operations by function</b> .....	<b>2</b>
<b>3 Construct a request</b> .....	<b>5</b>
<b>4 Manage custom image libraries</b> .....	<b>13</b>
4.1 Query image libraries.....	13
4.2 Create an image library.....	16
4.3 Modify the information of an image library.....	17
4.4 Delete an image library.....	19
4.5 Delete images.....	20
4.6 Obtain a signature for uploading images.....	21
4.7 Upload images.....	22
<b>5 Manage custom text libraries</b> .....	<b>24</b>
5.1 Query text libraries.....	24
5.2 Create a text library.....	27
5.3 Modify a text library.....	30
5.4 Delete a text library.....	31
5.5 Add text.....	32
5.6 Query text.....	33



# 1 Development preparations

---

**This topic describes the preparations required for calling the Content Moderation API.**

Activate the service

- **Register an Alibaba Cloud account on the [Alibaba Cloud official website](#). Skip this step if you have registered an account.**
- **Open the [landing page of Alibaba Cloud Content Moderation](#) and click **Enable Now** to activate the service.**

Create an AccessKey

**Manage your AccessKey ID and AccessKey secret on the [AccessKey management page](#).**



**Note:**

**An AccessKey is the key for using the Content Moderation API and has all permissions on your Alibaba Cloud account. Keep your AccessKey confidential and change it periodically.**

Create and authorize a RAM user

**Content Moderation allows you to use the AccessKey ID and AccessKey secret of a RAM user to call the Content Moderation API.**

**Follow these steps to create and authorize a RAM user:**

1. **Log on to the [RAM console](#), create a RAM user, and then generate its AccessKey ID and AccessKey secret. Properly keep the generated AccessKey ID and AccessKey secret for calling the API operations and SDKs later.**

**For more information, see [#unique\\_4](#).**

2. **Authorize the RAM user. Grant the following system policy permission to the RAM user you created: `AliyunYundunGreenWebFullAccess`.**

**For more information, see [#unique\\_5](#).**

## 2 List of operations by function

This topic lists all configuration management operations that the Content Moderation API provides. You can call the operations to manage custom text libraries and custom image libraries.

### Overview

Content Moderation allows you to manage custom text libraries and custom image libraries. You can complete these tasks in the Alibaba Cloud Content Moderation console or by calling API operations to easily meet your content moderation needs.



#### Note:

We recommend that you use the SDKs that Content Moderation provides in different development languages to call the Content Moderation API. The SDKs free you from the complex needs of constructing a request and calculating a signature to call the Content Moderation API. If no SDK is available for your development language, you can refer to the API reference to directly call API operations. For more information about the SDK operations, see [SDK overview](#).

The following table lists the types of configuration management operations that the Content Moderation API provides.

Type	Feature
<a href="#">Operations for managing custom image libraries</a>	Manage custom image libraries in the Alibaba Cloud Content Moderation console.
<a href="#">Operations for managing custom text libraries</a>	Manage custom text libraries in the Alibaba Cloud Content Moderation console.

### Operations for managing custom image libraries

Operation	Feature	Description
<a href="#">DescribeImageLib</a>	Queries image libraries	You can call this operation to query the custom image libraries that have been created
<a href="#">CreateImageLib</a>	Creates an image library.	You can call this operation to create a custom image library.

Operation	Feature	Description
<a href="#">UpdateImageLib</a>	<b>Modifies the information of an image library.</b>	<b>You can call this operation to modify the name and BizTypes parameter of a specified custom image library.</b>
<a href="#">DeleteImageLib</a>	<b>Deletes an image library.</b>	<b>You can call this operation to delete a specified custom image library.</b>
<a href="#">DescribeImageFromLib</a>	<b>Queries images in an image library.</b>	<b>You can call this operation to query the images that have been added to a specified custom image library.</b>
<a href="#">DeleteImageFromLib</a>	<b>Deletes images.</b>	<b>You can call this operation to delete one or more images from a specified custom image library.</b>
<a href="#">UploadImageToLib</a>	<b>Uploads images.</b>	<b>You can call this operation to add the metadata of images to a specified custom image library.</b>

## Operations for managing custom text libraries

Operation	Feature	Description
<a href="#">DescribeKeywordLib</a>	<b>Queries text libraries.</b>	<b>You can call this operation to query the text libraries that have been created.</b>
<a href="#">CreateKeywordLib</a>	<b>Creates a text library.</b>	<b>You can call this operation to create a custom text library.</b>
<a href="#">UpdateKeywordLib</a>	<b>Modifies the basic information of a text library.</b>	<b>You can call this operation to modify the basic information of a specified custom text library.</b>
<a href="#">DeleteKeywordLib</a>	<b>Deletes a text library.</b>	<b>You can call this operation to delete a specified custom text library.</b>
<a href="#">CreateKeyword</a>	<b>Adds text.</b>	<b>You can call this operation to add text to a specified custom text library.</b>

---

Operation	Feature	Description
<i>DescribeKeyword</i>	<b>Queries text.</b>	<b>You can call this operation to query text in a specified custom text library.</b>
<i>DeleteKeyword</i>	<b>Deletes text.</b>	<b>You can call this operation to delete text from a specified custom text library.</b>

## 3 Construct a request

---

This topic describes the method for constructing a request to call the Content Moderation API. This method is applicable if you initiate HTTP or HTTPS requests based on the API URL.

**Note:**

Content Moderation provides SDKs in multiple programming languages and supports third-party SDKs. You can use the SDKs to eliminate the need of constructing API requests by yourself. For more information, see [SDK overview](#).

### Protocols

You can send requests over HTTP or HTTPS.

### Methods

All operations support the POST and GET methods.

### Encoding

The request parameters and responses of all operations are encoded in UTF-8.

### API request structure

Type	Description	Remarks
API endpoint	The endpoint for the Content Moderation API.	<b>Example:</b> <code>http(https)://green.cn-shanghai.aliyuncs.com</code> .
Common request parameters	The common parameters required in all API requests.	For more information, see <a href="#">Common request parameters</a> .
Operation-specific parameters	The parameters that are specific to each operation.	For more information, see the definition of each operation.

## API endpoint

To call the Content Moderation API to manage custom term libraries, custom text pattern libraries, and custom image libraries, you must send a request to the following endpoint:

```
http(s)://green.cn-shanghai.aliyuncs.com
```

**Notice:**

Only the preceding endpoint is supported. Use the preceding endpoint to call the Content Moderation API in all regions of China. The server can automatically synchronize data if you initiate a request in a region other than cn-shanghai.

## Common request parameters

Parameter	Type	Required	Description
Action	String	Yes	The operation that you want to perform. For more information, see <a href="#">List of operations by function</a> .
AccessKeyId	String	Yes	The AccessKey ID provided to you by Alibaba Cloud. The AccessKey is used to call API operations.
Signature	String	Yes	The signature string of the current request. For more information about how signatures are calculated, see <a href="#">Signature method</a> .
SignatureMethod	String	Yes	The encryption method of the signature string. Set the value to HMAC-SHA1.
SignatureVersion	String	Yes	The version of the signature encryption algorithm. Set the value to 1.0.
SignatureNonce	String	Yes	A unique, random number used to prevent replay attacks. You must use different numbers for different requests.
Timestamp	String	Yes	The timestamp of the request. Specify the time in the <a href="#">ISO 8601 standard</a> in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. Example: 2018-01-01T12:00:00Z.
Version	String	Yes	The version number of the API. The value must be in the YYYY-MM-DD format. Set the value to 2017-08-23.

Parameter	Type	Required	Description
Format	String	No	<b>The format in which to return the response.</b> <b>Valid values:</b> <ul style="list-style-type: none"><li>• json</li><li>• xml</li></ul> <b>Default value: xml.</b>

#### Operation-specific parameters

**Click an operation in [List of operations by function](#) to query the specific parameters of the operation.**

#### Sign signatures

**You must sign all HTTP or HTTPS API requests to guarantee security. Alibaba Cloud uses the request signature to verify the identity of the request sender. Content Moderation implements symmetric encryption with an AccessKey pair to verify the identity of the request sender.**

**An AccessKey pair is an identity credential issued to Alibaba Cloud accounts and RAM users that is similar to a logon username and password. An AccessKey pair consists of an AccessKey ID and an AccessKey secret. The AccessKey ID is used to verify the identity of the user, while the AccessKey secret is used to encrypt and verify the signature string. You must keep your AccessKey secret strictly confidential.**

#### 1. Create a canonicalized query string.

- a. **Arrange the request parameters (including all common and operation-specific parameters except Signature) in alphabetical order.**



**Note:**

When you use the GET method to submit requests, specify these parameters in the request URL following the question mark (?) and connect the remaining parameters with ampersands (&).

- b. Encode the request parameters and their values in UTF-8 based on [RFC 3986](#).

Encoding rules are as follows:

- Uppercase letters, lowercase letters, digits, and some special characters such as hyphens (-), underscores (\_), periods (.), and tildes (~) do not need to be encoded.
- Other characters must be percent encoded in %XY format. XY represents the ASCII code of the characters in hexadecimal notation. For example, double quotation marks (") are encoded as %22.
- Extended UTF-8 characters are encoded in %XY%ZA... format.
- Spaces must be encoded as %20. Do not encode spaces as plus signs (+).

The preceding encoding method is similar to but slightly different from the `application/x-www-form-urlencoded` MIME-type encoding algorithm. If you use `java.net.URLEncoder` in the Java standard library, use `percentEncode` to encode request parameters and their values. In the encoded query string, replace the plus sign (+) with %20, the asterisk (\*) with %2A, and %7E with a tilde (~). In this way, you can obtain an encoded string that matches the preceding encoding rules.

```
private static final String ENCODING = "UTF-8";
private static String percentEncode(String value) throws
UnsupportedEncodingException {
return value != null ? URLEncoder.encode(value, ENCODING).
replace("+", "%20").replace("*", "%2A").replace("%7E", "~") :
null;
}
```

- c. Use an equal sign (=) to connect each encoded request parameter and its value.
- d. Use an ampersand (&) to connect the encoded request parameters. Note that these parameters must be arranged in the same order as that in [Step a](#).

Now, you have obtained a canonicalized query string (`CanonicalizedQueryString`) that follows the API request structure.



## 2. Create a string-to-sign from the encoded canonicalized query string.

- a. Create `StringToSign`. You can also use `percentEncode` to encode the canonicalized query string constructed in the previous step. The rules are as follows:

```
StringToSign=
  HTTPMethod + "&" + // HTTPMethod: the HTTP method used to send
  a request, such as GET.
  percentEncode("/") + "&" + // percentEncode("/"): the UTF-8
  encoded value of the forward slash (/), which is %2F.
  percentEncode(CanonicalizedQueryString) // Your canonicalized
  query string.
```

- b. Calculate the HMAC-SHA1 value of `StringToSign` based on [RFC 2104](#). This example uses the Java Base64 encoding method.

```
Signature = Base64( HMAC-SHA1( AccessSecret, UTF-8-Encoding-Of(
StringToSign) ) )
```



### Note:

When you calculate the signature, the key value specified by RFC 2104 is your `AccessKeySecret` with an ampersand (&) which has an ASCII value of 38.

- c. Encode the `Signature` parameter based on [RFC 3986](#) and add it to the canonicalized query string.

### Sample code

- **Example 1: Concatenate parameters**

The following example describes how to call the `DescribeKeywordLib` operation to query custom text libraries. In the case of `AccessKeyId=testid` and `AccessKeySecret=testsecret`, the signature process is as follows:

1. Create a canonicalized query string.

```
AccessKeyId=testid&Action=DescribeKeywordLib&Format=XML&SignatureM
ethod=HMAC-SHA1&SignatureNonce=3ee8c1b8-83d3-44af-a94f-4e0ad82fd6
cf&SignatureVersion=1.0&Timestamp=2016-02-23T12:46:24Z&Version=
2014-05-26&ServiceModule=open_api
```

2. Create a string-to-sign.

```
GET%2F&AccessKeyId%3Dtestid%26Action%3DDescribeKeywordLib%
26Format%3DXML%26SignatureMethod%3DHMAC-SHA1%26SignatureNonce%
3D3ee8c1b8-83d3-44af-a94f-4e0ad82fd6cf%26SignatureVersion%3D1.0%
```

```
26Timestamp%3D2016-02-23T12%253A46%253A24Z%26Version%3D2014-05-26%
26ServiceModule%3Dopen_api
```

3. Calculate the HMAC value of the string-to-sign. In the case of `AccessKeySecret=testsecret`, the key value used for calculation is `testsecret`. The calculated signature value is `0LeaidS1JvxuMvnyH0wuJ+uX5qY=`. This example uses the Java Base64 encoding method.

```
Signature = Base64( HMAC-SHA1( AccessSecret, UTF-8-Encoding-Of(
StringToSign) ) )
```

4. Add the `Signature=0LeaidS1JvxuMvnyH0wuJ%2BuX5qY%3D` string that has been encoded based on [RFC 3986](#) to the URL in *Step a*.

```
http://green.cn-shanghai.aliyuncs.com/?SignatureVersion=1.0&Action
=DescribeKeywordLib&Format=XML&SignatureNonce=3ee8c1b8-83d3-44af-
a94f-4e0ad82fd6cf&Version=2014-05-26&AccessKeyId=testid&Signature
=0LeaidS1JvxuMvnyH0wuJ%2BuX5qY%3D&SignatureMethod=HMAC-SHA1&
Timestamp=2016-02-23T12%253A46%253A24Z&ServiceModule=open_api
```

You can use a browser or tools such as `cURL` and `Wget` to initiate an HTTP request through the new URL. The HTTP request calls the `DescribeKeywordLib` operation to query custom text libraries.

- **Example 2: Use the standard library of the programming language**

The following example describes how to call the `DescribeKeywordLib` operation to query custom text libraries. Assume that `AccessKeyId` is set to `testid` and `AccessKeySecret` is set to `testsecret`, and all request parameters are placed in a `Java Map<String, String>` object.

1. Predefine the encoding method.

```
private static final String ENCODING = "UTF-8";
private static String percentEncode(String value) throws
UnsupportedEncodingException {
    return value != null ? URLEncoder.encode(value, ENCODING).
replace("+", "%20").replace("*", "%2A").replace("%7E", "~") : null
;
}
```

2. Predefine the time format for the `Timestamp` parameter. The value of the `Timestamp` parameter must be specified in the [ISO 8601](#) standard. The time must be in UTC+0.

```
private static final String ISO8601_DATE_FORMAT = "yyyy-MM-dd'T'HH
:mm:ss'Z'";
private static String formatIso8601Date(Date date) {
    SimpleDateFormat df = new SimpleDateFormat(ISO8601_DATE_FORMAT);
    df.setTimeZone(new SimpleTimeZone(0, "GMT"));
}
```

```
    return df.format(date);  
}
```

### 3. Create a query string.

```
final String HTTP_METHOD = "GET";  
Map parameters = new HashMap();  
// Specify request parameters.  
parameters.put("Action", "DescribeKeywordLib");  
parameters.put("Version", "2017-08-23");  
parameters.put("AccessKeyId", "testid");  
parameters.put("Timestamp", formatIso8601Date(new Date()));  
parameters.put("SignatureMethod", "HMAC-SHA1");  
parameters.put("SignatureVersion", "1.0");  
parameters.put("SignatureNonce", UUID.randomUUID().toString());  
parameters.put("Format", "XML");  
parameters.put("ServiceModule", "open_api");  
// Arrange request parameters.  
String[] sortedKeys = parameters.keySet().toArray(new String[]{});  
Arrays.sort(sortedKeys);  
final String SEPARATOR = "&";  
// Create a string-to-sign.  
StringBuilder stringToSign = new StringBuilder();  
stringToSign.append(HTTP_METHOD).append(SEPARATOR);  
stringToSign.append(percentEncode("/")).append(SEPARATOR);  
StringBuilder canonicalizedQueryString = new StringBuilder();  
for(String key : sortedKeys) {  
    // Encode the key and value.  
    canonicalizedQueryString.append("&")  
        .append(percentEncode(key)).append("=")  
        .append(percentEncode(parameters.get(key)));  
}  
// Encode the canonicalized query string.  
stringToSign.append(percentEncode(  
    canonicalizedQueryString.toString().substring(1)));
```

4. Calculate the signature. In the case of `AccessKeySecret=testsecret`, the key value used for calculation is `testsecret&`. The calculated signature value is `0LeaidS1JvxuMvnyH0wuJ%2BuX5qY%3D`.

```
// The following code demonstrates how to calculate the signature:  
final String ALGORITHM = "HmacSHA1";  
final String ENCODING = "UTF-8";  
key = "testsecret&";  
Mac mac = Mac.getInstance(ALGORITHM);  
mac.init(new SecretKeySpec(key.getBytes(ENCODING), ALGORITHM));  
byte[] signData = mac.doFinal(stringToSign.getBytes(ENCODING));  
String signature = new String(Base64.encodeBase64(signData));
```

Encode the Signature parameter based on [RFC 3986](#) and add the parameter to the URL. The new URL is as follows:

```
http://green.cn-shanghai.aliyuncs.com/?SignatureVersion=1.0&Action  
=DescribeKeywordLib&Format=XML&SignatureNonce=3ee8c1b8-83d3-44af-  
a94f-4e0ad82fd6cf&Version=2014-05-26&AccessKeyId=testid&Signature
```

---

```
=0LeaidS1JvxuMvnyH0wuJ%2BuX5qY%3D&SignatureMethod=HMAC-SHA1&Timestamp=2016-02-23T12%253A46%253A24Z
```

5. Use browsers or tools such as cURL and Wget to send HTTP requests and obtain the response.

API response

Click an operation in [List of operations by function](#) to query the response of the operation.

## 4 Manage custom image libraries

---

### 4.1 Query image libraries

This topic describes how to call the DescribeImageLib operation to query custom image libraries.

#### Description

**Operation:** DescribeImageLib

You can call this operation to query custom image libraries.

#### Request parameters

For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).

The following table describes the parameters in the request body.


Parameter	Type	Required	Description
ServiceModule	String	Yes	The name of the service module to which the image library is applied. Valid value: open_api (indicates the Content Moderation API).

#### Response parameters

For more information about common response parameters that this operation returns, see [Common response parameters](#).

The data parameter in the response body is a JSON array. The following table describes the parameters that each element of the JSON array contains.

Parameter	Type	Required	Description
Id	Numeric	Yes	The primary key ID of the image library.
ModifiedTime	String	Yes	The last time when the image library was modified.
Name	String	Yes	The name of the image library.

Parameter	Type	Required	Description
Code	String	Yes	<p>The code of the image library.</p> <div style="background-color: #f0f0f0; padding: 5px;">  <b>Note:</b>            The code of the image library appears in the Alibaba Cloud Content Moderation console. The primary key ID is used to identify the image library in the operation.         </div>
ImageCount	String	Yes	The number of images in the image library.
Category	String	Yes	<p>The category of the image library. Valid values:</p> <ul style="list-style-type: none"> <li>• BLACK: a blacklist.</li> <li>• WHITE: a whitelist.</li> </ul>
Source	String	Yes	<p>The source of the image library. Valid values:</p> <ul style="list-style-type: none"> <li>• MANUAL: indicates that the image library is manually created.</li> <li>• FEEDBACK: indicates that the image library is automatically created based on user feedback.</li> </ul>
ServiceModule	String	Yes	The name of the service module to which the image library is applied. Valid value: open_api (indicates the Content Moderation API).
Scene	String	Yes	<p>The moderation scenario to which the custom image library applies. Valid values:</p> <ul style="list-style-type: none"> <li>• PORN: pornography detection.</li> <li>• AD: ad violation detection.</li> <li>• ILLEGAL: terrorist content detection.</li> </ul>
BizTypes	List	No	The business type of the custom image library that you set on the Moderation Policy tab (by choosing Settings > Moderation API).
Enable	Boolean	No	Indicates whether the image library was enabled. A value of true indicates that the image library was enabled, and a value of false indicates that the image library was disabled.

## Examples

## Sample requests

```
{
  "ServiceModule": open_api
}
```

## Sample success responses

```
{
  "requestId": "6CF2815C-C8C7-4A01-B52E-FF6E24F53492",
  "data": {
    "TotalCount": 5,
    "ImageLibList": [
      {
        "Name": "Test a",
        "Source": "MANUAL",
        "ImageCount": 191231231230,
        "BizTypes": [
          1,
          2,
          3
        ],
        "Category": "BLACK",
        "ServiceModule": "open_api",
        "Scene": "PORN",
        "ModifiedTime": "2018-03-19 10:45:44 +0800",
        "Id": 1279,
        "Code": "808003055",
        "Enable": true
      },
      {
        "Name": "Hello aa",
        "Source": "MANUAL",
        "ImageCount": 0,
        "BizTypes": [],
        "Category": "BLACK",
        "ServiceModule": "open_api",
        "Scene": "PORN",
        "ModifiedTime": "2018-03-01 19:20:37 +0800",
        "Id": 1222,
        "Code": "808003043",
        "Enable": true
      }
    ]
  },
  "code": 200,
  "success": true
}
```

}

## 4.2 Create an image library

This topic describes how to call the `CreateImageLib` operation to create an image library.

Description

**Operation:** `CreateImageLib`

You can call this operation to create a custom similar image library.



**Note:**

The maximum number of image libraries equals the number of image libraries created by using this operation plus the number of image libraries created in the Alibaba Cloud Content Moderation console.

Request parameters

For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).

The following table describes the parameters in the request body.

Parameter	Type	Required	Description
Name	String	Yes	The name of the image library.
Category	String	Yes	The category of the image library. Valid values: <ul style="list-style-type: none"> <li>• BLACK: a blacklist.</li> <li>• WHITE: a whitelist.</li> </ul>
ServiceModule	String	Yes	The name of the service module to which the image library is applied. Valid value: <code>open_api</code> (indicates the Content Moderation API).
Scene	String	Yes	The moderation scenario to which the custom image library applies. Valid values: <ul style="list-style-type: none"> <li>• PORN: pornography detection.</li> <li>• AD: ad violation detection.</li> <li>• ILLEGAL: terrorist content detection.</li> </ul>



Parameter	Type	Required	Description
BizTypes	List	No	The business type of the custom image library that you set on the Moderation Policy tab (by choosing Settings > Moderation API).
Enable	Boolean	No	Specifies whether to enable the image library. A value of true indicates that the image library is enabled, and a value of false indicates that the image library is disabled.

Response parameters

For more information about common response parameters that this operation returns, see [Common response parameters](#).

Examples

#### Sample requests

```
{
  "Name": "test1sdkdk",
  "BizTypes": [],
  "Category": "BLACK",
  "ServiceModule": "open_api",
  "ResourceType": "IMAGE",
  "Scene": "PORN"
}
```

#### Sample success responses

```
{
  "requestId": "795D8871-4889-4C0F-A8B1-C7D2B990FF61",
  "code": 200
}
```

## 4.3 Modify the information of an image library

This topic describes how to call the UpdateImageLib operation to modify the basic information of a specified image library.

Description

**Operation:** UpdateImageLib

You can call this operation to modify the basic information of a specified image library.

## Request parameters

For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).

The following table describes the parameters in the request body.

Parameter	Type	Required	Description
Id	Numeric	Yes	The primary key ID of the image library.
Name	String	Yes	The name of the image library.
Category	String	Yes	The category of the image library. Valid values: <ul style="list-style-type: none"><li>• BLACK: a blacklist.</li><li>• WHITE: a whitelist.</li></ul>
Scene	String	Yes	The moderation scenario to which the custom image library applies. Valid values: <ul style="list-style-type: none"><li>• PORN: pornography detection.</li><li>• AD: ad violation detection.</li><li>• ILLEGAL: terrorist content detection.</li></ul>
BizTypes	List	No	The business type of the custom image library that you set on the Moderation Policy tab (by choosing Settings > Moderation API).
Enable	Boolean	No	Specifies whether to enable the image library. A value of true indicates that the image library is enabled, and a value of false indicates that the image library is disabled.

## Response parameters

For more information about common response parameters that this operation returns, see [Common response parameters](#).

## Examples

## Sample requests

```
{
  "Id": 2147,
  "Name": "test2sdkdk",
  "BizTypes": []
}
```

```
}
```

### Sample success responses

```
{  
  "requestId": "795D8871-4889-4C0F-A8B1-C7D2B990FF61",  
  "code": 200  
}
```

## 4.4 Delete an image library

This topic describes how to call the `DeleteImageLib` operation to delete a specified image library.

### Description

**Operation:** `DeleteImageLib`

You can call this operation to delete a specified image library.




**Note:**

Deleted image libraries cannot be restored. Proceed with caution.

### Request parameters

For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).

The following table describes the parameters in the request body.

Parameter	Type	Required	Description
Id	Numeric	Yes	The primary key ID of the image library to delete.  <b>Note:</b> Do not set this parameter to the code of the image library.

### Response parameters

For more information about common response parameters that this operation returns, see [Common response parameters](#).

## Examples

## Sample requests

```
{
  "Id": 2147
}
```

## Sample success responses

```
{
  "requestId": "795D8871-4889-4C0F-A8B1-C7D2B990FF61",
  "code": 200
}
```

## 4.5 Delete images

This topic describes how to call the `DeleteImageFromLib` operation to delete one or more images from a specified image library.

## Description

**Operation:** `DeleteImageFromLib`

You can call this operation to delete one or more images from a specified image library.

**Note:**

Deleted images cannot be restored. Proceed with caution.

## Request parameters

For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).

The following table describes the parameters in the request body.

Parameter	Type	Required	Description
Ids	List	Yes	The IDs of the images to delete.
ImageLibId	String	Yes	The primary key ID of the image library.

## Response parameters

For more information about common response parameters that this operation returns, see [Common response parameters](#).

## Examples

**Sample requests**

```
{
  "Id": [1,2],
  "ImageLibId": 2147
}
```

**Sample success responses**

```
{
  "requestId": "795D8871-4889-4C0F-A8B1-C7D2B990FF61",
  "code": 200
}
```

## 4.6 Obtain a signature for uploading images

**This topic describes how to call the DescribeUploadInfo operation to obtain a signature for uploading images. You can call the UploadImageToLib operation to upload images only after you obtain a signature for uploading images.**

## Description

**Operation:** DescribeUploadInfo

**Before calling the UploadImageToLib operation to upload images to a specified image library, you must call the DescribeUploadInfo operation to obtain a signature for uploading images.**

## Request parameters

**For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).**

**The following table describes the parameters in the request body.**

Parameter	Type	Required	Description
Biz	String	Yes	The operation of obtaining a signature for uploading images to custom image libraries. Set the value to customImageLib.

## Response parameters

**For more information about common response parameters that this operation returns, see [Common response parameters](#).**

Parameter	Type	Required	Description
Accessid	String	No	The OSS access ID.
Policy	String	No	The upload policy.
Signature	String	No	The signature.
Folder	String	No	The directory of the object in OSS, that is, the object prefix.
Host	String	No	The OSS endpoint.
Expire	String	No	The expiration time of the signature. Unit: seconds.

## Examples

### Sample requests

```
{
  "Biz": "customImageLib"
}
```

### Sample success responses

```
{
  "code": "200",
  "data": {
    "Policy": "asfdaklfakldf",
    "Expire": 1232323,
    "Accessid": "blalbal...",
    "Signature": "signature",
    "Host": "cn-shanghai.oss.aliyun.com",
    "Folder": "/folder/1733344274274674"
  },
  "requestId": "795D8871-4889-4C0F-A8B1-C761: "@guid",
  "successResponse": true
}
```

## 4.7 Upload images

**This topic describes how to call the UploadImageToLib operation to upload images to a specified image library. Before uploading images, you must call the DescribeUploadInfo operation to obtain a signature for uploading images.**

### Description

**Operation:** UploadImageToLib

**Before calling the UploadImageToLib operation to upload images to a specified image library, you must call the DescribeUploadInfo operation to obtain a signature for uploading images.**

Request parameters

**For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).**

The following table describes the parameters in the request body.

Parameter	Type	Required	Description
ImageLibId	Numeric	Yes	The primary key ID of the image library.
Urls	List	Yes	The images. Each element in the list is the access URL of an image in OSS.

Response parameters

**For more information about common response parameters that this operation returns, see [Common response parameters](#).**

Examples

#### Sample requests

```
{
  "ImageLibId": "2147",
  "Urls": "[\"http://oss-example.com/1.jpg\"]"
}
```

#### Sample success responses

```
{
  "RequestId": "795D8871-4889-4C0F-A8B1-C7D2B990FF61",
  "code": 200
}
```

## 5 Manage custom text libraries

### 5.1 Query text libraries

This topic describes how to call the DescribeKeywordLib operation to query the custom text libraries that have been created. You can use text libraries for text anti-spam. The effect of managing custom text libraries by calling API operations is the same as that of managing custom text libraries in the Alibaba Cloud Content Moderation console.

#### Description

**Operation:** DescribeKeywordLib

You can call this operation to query custom text libraries.

#### Request parameters

For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).

The following table describes the parameters in the request body.

Parameter	Type	Required	Description
ServiceModule	String	Yes	The name of the service module to which the text library is applied. Valid value: open_api (indicates the Content Moderation API).



#### Response parameters

For more information about common response parameters that this operation returns, see [Common response parameters](#).

The data parameter in the response body is a JSON array. The following table describes the parameters that each element of the JSON array contains.

Parameter	Type	Required	Description
Id	Numeric	Yes	The primary key ID of the text library.
ModifiedTime	String	Yes	The last time when the text library was modified.
Name	String	Yes	The name of the text library.



Parameter	Type	Required	Description
Code	String	Yes	<p>The code of the text library.</p> <p> <b>Note:</b> The code of the text library appears in the Alibaba Cloud Content Moderation console. The primary key ID is used to identify the text library in the operation.</p>
Count	String	Yes	The number of terms in the text library.
Category	String	Yes	<p>The category of the text library. Valid values:</p> <ul style="list-style-type: none"> <li>• <b>BLACK: a blacklist.</b></li> <li>• <b>WHITE: a whitelist.</b></li> <li>• <b>REVIEW: a review list.</b></li> </ul>
Source	String	Yes	<p>The source of the text library.</p> <p> <b>Note:</b> The value is fixed to <b>MANUAL</b>, which indicates that the text library is manually added.</p>
ServiceModule	String	Yes	The name of the service module to which the text library is applied. Valid value: <code>open_api</code> (indicates the Content Moderation API).
BizTypes	List	No	The business type of the custom text library that you set on the Moderation Policy tab (by choosing Settings > Moderation API).
ResourceType	String	Yes	<p>The resource type of the text library. Valid values:</p> <ul style="list-style-type: none"> <li>• <b>TEXT: a literal text library.</b></li> <li>• <b>IMAGE: a text library against which text extracted from images is matched.</b></li> <li>• <b>VOICE: a text library against which text converted from audio is matched.</b></li> </ul>

Parameter	Type	Required	Description
LibType	String	Yes	<p>The type of the text library in each moderation scenario. Valid values:</p> <ul style="list-style-type: none"> <li>• <b>Text anti-spam</b> <ul style="list-style-type: none"> <li>- textKeyword: a text library against which terms in text are matched.</li> <li>- similarText: a text library against which text patterns are matched.</li> </ul> </li> <li>• <b>Detection of ads in images</b> <p>textKeyword: a text library against which terms extracted from images are matched.</p> </li> <li>• <b>Audio anti-spam</b> <p>voiceText: a text library against which terms converted from audio are matched.</p> </li> </ul>
MatchMode	String	No	<p>The matching method. Valid values:</p> <ul style="list-style-type: none"> <li>• fuzzy: fuzzy matching.</li> <li>• precise: exact matching.</li> </ul>
Enable	Boolean	No	<p>Indicates whether the text library was enabled. A value of true indicates that the text library was enabled, and a value of false indicates that the text library was disabled.</p>

## Examples

## Sample requests

```
{
  "ServiceModule": open_api
}
```

## Sample success responses

```
{
  "requestId": "795D8871-4889-4C0F-A8B1-C7D2B990FF61",
  "data": {
    "TotalCount": 11,
    "KeywordLibList": [
      {
        "Name": "test1sdkdk",
        "Source": "MANUAL",
        "BizTypes": [],
        "Category": "BLACK",

```

```
"ServiceModule": "open_api",
"Count": 3,
"ResourceType": "TEXT",
"Id": 2147,
"ModifiedTime": "2018-09-04 14:17:56 +0800",
"Code": "710001",
"LibType": "textKeyword",
"MatchMode": "fuzzy",
"Enable": "true"
},
{
  "Name": "Audio test",
  "Source": "MANUAL",
  "BizTypes": [],
  "Category": "BLACK",
  "ServiceModule": "open_api",
  "Count": 3,
  "ResourceType": "VOICE",
  "Id": 2693,
  "ModifiedTime": "2018-09-03 17:11:04 +0800",
  "Code": "932001",
  "LibType": "voiceText",
  "MatchMode": "fuzzy",
  "Enable": "true"
}
]
},
"code": 200,
"success": true
}
```

## 5.2 Create a text library

**This topic describes how to call the `CreateKeywordLib` operation to create a custom text library. You can use text libraries for text anti-spam. The effect of managing custom text libraries by calling API operations is the same as that of managing custom text libraries in the Alibaba Cloud Content Moderation console.**

### Description

**Operation:** `CreateKeywordLib`

**You can call this operation to create a text library. The created text library can be used for text anti-spam.**

### Request parameters

**For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).**

**The following table describes the parameters in the request body.**

Parameter	Type	Required	Description
ServiceModule	String	Yes	The name of the service module to which the text library is applied. Valid value: <code>open_api</code> (indicates the Content Moderation API).
Name	String	Yes	The name of the text library.
ResourceType	String	Yes	The resource type of the text library. Valid values: <ul style="list-style-type: none"> <li>• <b>TEXT</b>: a literal text library.</li> <li>• <b>IMAGE</b>: a text library against which text extracted from images is matched.</li> <li>• <b>VOICE</b>: a text library against which text converted from audio is matched.</li> </ul>
BizTypes	List	No	The business type of the custom text library that you set on the Moderation Policy tab (by choosing Settings > Moderation API).
Category	String	Yes	The category of the text library. Valid values: <ul style="list-style-type: none"> <li>• <b>BLACK</b>: a blacklist.</li> <li>• <b>WHITE</b>: a whitelist.</li> <li>• <b>REVIEW</b>: a review list.</li> </ul>
LibType	String	Yes	The type of the text library in each moderation scenario. Valid values: <ul style="list-style-type: none"> <li>• <b>Text anti-spam</b> <ul style="list-style-type: none"> <li>- <code>textKeyword</code>: a text library against which terms in text are matched.</li> <li>- <code>similarText</code>: a text library against which text patterns are matched.</li> </ul> </li> <li>• <b>Detection of ads in images</b> <ul style="list-style-type: none"> <li><code>textKeyword</code>: a text library against which terms extracted from images are matched.</li> </ul> </li> <li>• <b>Audio anti-spam</b> <ul style="list-style-type: none"> <li><code>voiceText</code>: a text library against which terms converted from audio are matched.</li> </ul> </li> </ul>

Parameter	Type	Required	Description
MatchMode	String	No	The matching method. Valid values: <ul style="list-style-type: none"> <li>fuzzy: fuzzy matching.</li> <li>precise: exact matching.</li> </ul>
Enable	Boolean	No	Specifies whether to enable the text library. A value of true indicates that the text library is enabled, and a value of false indicates that the text library is disabled.

## Response parameters

For more information about common response parameters that this operation returns, see [Common response parameters](#).

Parameter	Type	Required	Description
code	Integer	Yes	The error code. Most error codes are consistent with HTTP status codes, and some error codes are extended. <ul style="list-style-type: none"> <li>2xx: indicates a success.</li> <li>4xx: indicates an incorrect request.</li> <li>5xx: indicates a back-end error.</li> </ul> For more information, see <a href="#">Common errors</a> .
msg	String	No	The description of the call error.
requestId	String	Yes	The unique ID of the request, which can be used to locate issues.
id	String	Yes	The unique ID of the text library, which can be used to perform subsequent operations on the text library.

## Examples

## Sample requests

```
{
  "Name": "test1sdkdk",
  "BizTypes": [],
  "Category": "BLACK",
  "ServiceModule": "open_api",
  "ResourceType": "TEXT",
  "LibType": "textKeyword"
}
```

```
}

```

**Sample success responses**

```
{
  "RequestId": "795D8871-4889-4C0F-A8B1-C7D2B990FF61",
  "code": 200,
  "Id":123
}
```

### 5.3 Modify a text library

This topic describes how to call the UpdateKeywordLib operation to modify the basic information of a specified custom text library. You can use text libraries for text anti-spam. The effect of managing custom text libraries by calling API operations is the same as that of managing custom text libraries in the Alibaba Cloud Content Moderation console.

Description

**Operation:** UpdateKeywordLib

You can call this operation to modify the basic information of a specified text library.

Request parameters

For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).

The following table describes the parameters in the request body.

Parameter	Type	Required	Description
Id	Numeric	Yes	The primary key ID of the text library.
Name	String	Yes	The name of the text library.
BizTypes	List	No	The business type of the custom text library that you set on the Moderation Policy tab (by choosing Settings > Moderation API).
Enable	Boolean	No	Specifies whether to enable the text library. A value of true indicates that the text library is enabled, and a value of false indicates that the text library is disabled.

## Response parameters

For more information about common response parameters that this operation returns, see [Common response parameters](#).

## Examples

## Sample requests

```
{
  "Id": 2147,
  "Name": "test2sdkdk",
  "BizTypes": []
}
```

## Sample success responses

```
{
  "requestId": "795D8871-4889-4C0F-A8B1-C7D2B990FF61",
  "code": 200
}
```

## 5.4 Delete a text library

This topic describes how to call the `DeleteKeywordLib` operation to delete a specified custom text library. You can use text libraries for text anti-spam. The effect of managing custom text libraries by calling API operations is the same as that of managing custom text libraries in the Alibaba Cloud Content Moderation console.

## Description

**Operation:** `DeleteKeywordLib`

You can call this operation to delete a specified text library.



**Note:**

Deleted text libraries cannot be restored. Proceed with caution.

## Request parameters

For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).

The following table describes the parameters in the request body.

Parameter	Type	Required	Description
Id	Numeric	Yes	The primary key ID of the text library to delete.

Response parameters

**For more information about common response parameters that this operation returns, see [Common response parameters](#).**

Examples

### Sample requests

```
{
  "Id": 2147
}
```

### Sample success responses

```
{
  "requestId": "795D8871-4889-4C0F-A8B1-C7D2B990FF61",
  "code": 200
}
```

## 5.5 Add text

**This topic describes how to call the CreateKeyword operation to add terms to a specified custom text library. You can use text libraries for text anti-spam. The effect of managing custom text libraries by calling API operations is the same as that of managing custom text libraries in the Alibaba Cloud Content Moderation console.**

Description

**Operation:** CreateKeyword

**You can call this operation to add terms to a specified text library.**

Request parameters

**For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).**

**The following table describes the parameters in the request body.**



Parameter	Type	Required	Description
KeywordLibId	Numeric	Yes	The primary key ID of the text library.
Keywords	String	Yes	The terms to add.

Response parameters

**For more information about common response parameters that this operation returns, see [Common response parameters](#).**

Parameter	Type	Required	Description
SuccessCount	Numeric	Yes	The number of terms that have been added.
InvalidKeywordList	String	Yes	The invalid terms, that is, the terms that failed to be added.

Examples

### Sample requests

```
{
  "KeywordLibId": "2147",
  "Keywords": [test]
}
```

### Sample success responses

```
{
  "code": 200,
  "data": {
    "InvalidKeywordList": [
      "test"
    ],
    "SuccessCount": 0
  }
}
```

## 5.6 Query text

This topic describes how to call the DescribeKeyword operation to query terms in a specified custom text library in fuzzy mode. You can use text libraries for text anti-spam. The effect of managing custom text libraries by calling API operations

is the same as that of managing custom text libraries in the Alibaba Cloud Content Moderation console.

#### Description


**Operation:** DescribeKeyword

You can call this operation to query terms by page in a specified text library.

#### Request parameters

For more information about the common request parameters that must be included in all Content Moderation API requests, see [Common request parameters](#).

The following table describes the parameters in the request body.

Parameter	Type	Required	Description
KeywordLibId	Numeric	Yes	The primary key ID of the text library.
Keyword	String	No	The term to query. Fuzzy matching is supported.   <b>Note:</b> If you do not specify this parameter, all terms in the text library are returned.
TotalCount	Numeric	No	The number of terms to return.
CurrentPage	String	No	The number of the page to return.
PageSize	Numeric string	No	The number of entries to return on each page.

#### Response parameters

For more information about common response parameters that this operation returns, see [Common response parameters](#).

Parameter	Type	Required	Description
TotalCount	Numeric	No	The number of returned terms.
CurrentPage	String	No	The page number of the returned page.
PageSize	Numeric string	No	The number of entries returned per page.
KeywordList	JSON array	Yes	The terms. For more information about the parameter structure, see <a href="#">KeywordList</a> .

Table 5-1: KeywordList

Parameter	Type	Required	Description
Id	Numeric	Yes	The primary key ID of the term.
CreateTime	String	Yes	The time when the term was created.
Keyword	String	Yes	The term.
HitCount	Numeric	Yes	The number of times that the term was hit.

## Examples

### Sample requests

```
{
  "KeywordLibId": "2147",
}
```

### Sample success responses

```
{
  "code": 200,
  "requestId": "@guid",
  "data": {
    "TotalCount": 1000,
    "PageSize": 20,
    "CurrentPage": 1,
    "KeywordList": [
      {
        "Keyword": "USA",
        "HitCount": 101,
        "CreateTime": "2018-04-19 20:12:30 +0800",
        "Id": 1
      },
      {
        "Keyword": "Donald Trump",
        "HitCount": 102,
        "CreateTime": "2018-04-19 20:12:30 +0800",
        "Id": 2
      }
    ]
  }
}
```