

Moderation

User Guide

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1 Process of Using Content Moderation

Content Moderation adopts image and text detection technologies that detect pornography and images and text violating related laws or regulations. By calling the APIs provided by Content Moderation, you can have your uploaded images, text, audio, and videos reviewed and obtain the inference results. This helps you build an intelligent system that delivers improved efficiency.

The following figure shows the procedure for using this service.

Figure 1-1 Procedure for using Content Moderation

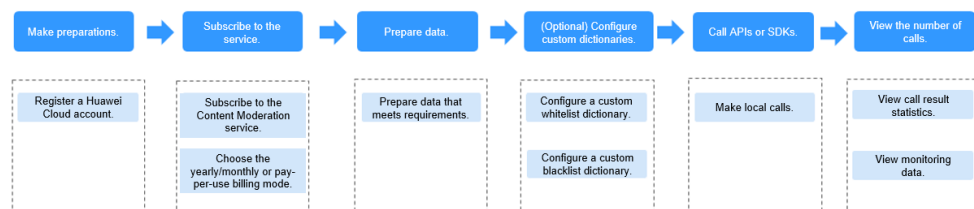


Table 1-1 Procedure for using Content Moderation

Procedure	Sub Task	Description	Instruction
Making preparations	Signing up with Huawei Cloud	Before using Content Moderation, sign up for a HUAWEI ID.	Signing Up for a HUAWEI ID
Subscribing to the service	Subscribing to the Content Moderation service by following the procedure	You need to subscribe to the service according to the procedure.	Subscribing to the Content Moderation Service
	Choosing the yearly/monthly or pay-per-use billing mode	After subscribing to the service, you need to purchase the service. Two billing modes are available.	Purchasing the Service

Procedure	Sub Task	Description	Instruction
Preparing data	Preparing data that meets requirements	There are restrictions on the data format and the number of concurrent calls. Before using the service, you need to prepare the data to be reviewed by referring to the restrictions.	Preparing Data
Calling APIs or SDKs	Making local calls	Use the Moderation SDK for local development. You can directly call functions to use SDKs.	Calling an API Locally
Viewing the number of calls	Viewing call result statistics	You can view the review details and the number of API calls on the management console.	Viewing the Number of Calls

2 Subscribing to the Service

This section introduces the procedure for subscribing to the service.

 **NOTE**

This service is available only to enterprise users currently.

Signing Up for a HUAWEI ID

Skip this step if you already have a HUAWEI ID.

1. Log in to the [Huawei Cloud](#) official website.
2. Click **Register** in the upper right corner to access the registration page.
3. Complete the registration as instructed. For details, see [Signing Up for a HUAWEI ID](#).

Subscribing to the Content Moderation Service

To subscribe to Content Moderation, perform the following steps:

1. Sign up for a HUAWEI ID.
2. Log in to the [Content Moderation console](#) and select a region. For details about the region where the Content Moderation service is available, see [Endpoints](#).
3. In the lower right corner of the page, click **Customer Service** to subscribe to this service.
4. After the subscription is successful, the Content Moderation service is displayed on the **Overview** page. You can call APIs to use the service.

Billing Modes

Content Moderation supports both the pay-per-use and yearly/monthly billing modes. For details, see [Billing](#).

- Pay-per-use
If you want to use the pay-per-use billing mode, see [Content Moderation Pricing Details](#).

- Yearly/Monthly
In the upper right corner, click **Prepay to Get Discounts**. On the displayed page, select your desired type and specifications, set other parameters, and click **Next**. Then confirm the information, click **Submit**, and pay the order to enable the service.

3 Preparing Data

The functions of Content Moderation vary depending on the region. There are restrictions on the data format and the number of concurrent calls. Before using the service, you need to prepare the data to be reviewed by referring to the restrictions.

For details about the restrictions on using service functions, see [Constraints](#).

For example, Text Moderation has the following restrictions on the input data:

- Text Moderation V3 is available in the **AP-Singapore** region.
- It only supports Chinese text.
- By default, the maximum number of concurrent API calls is 50. To increase the concurrency, [submit a service ticket](#).

4 Calling APIs or SDKs

4.1 Calling an API Locally

Content Moderation Software Development Kit (Moderation SDK for short) encapsulates the RESTful APIs provided by Content Moderation to simplify application development. You can add dependencies or download SDKs to call APIs to use Content Moderation.

This section uses **Text Moderation** as an example to describe how to use the Moderation Python SDK for local development. You can use the SDK by calling API functions.

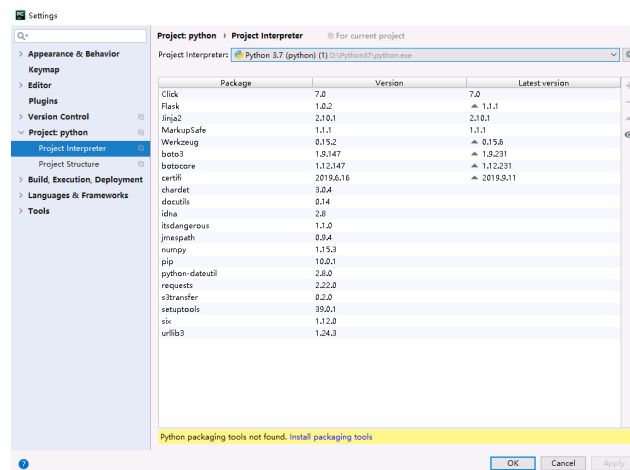
Prerequisites

- You have obtained a HUAWEI ID and completed real-name authentication. Your HUAWEI ID is not in arrears, frozen, or deregistered.
- You have learned the [constraints on Text Moderation](#).
- You have [subscribed to the Text Moderation service](#).

Procedure

1. Install the Python environment and obtain the SDK.
 - a. Download Python of a proper version from [Python's official website](#) and install it. Python 3.3 or later is recommended. This section uses Python 3.7 as an example.
 - b. Download the latest version of PyCharm from [PyCharm's official website](#).
 - c. Start the PyCharm development tool and choose **File > Settings > Project Interpreter** to configure the Python environment.
 - d. Select the Python installation path. See [Figure 4-1](#). After selecting the target Python, click **Apply** at the bottom of the page to complete the configuration.

Figure 4-1 Configuring the python environment using PyCharm



2. Create a project in PyCharm and click **Terminal** in the lower left corner. Run the following commands to install the SDK (the SDK supports Python 3 or later):

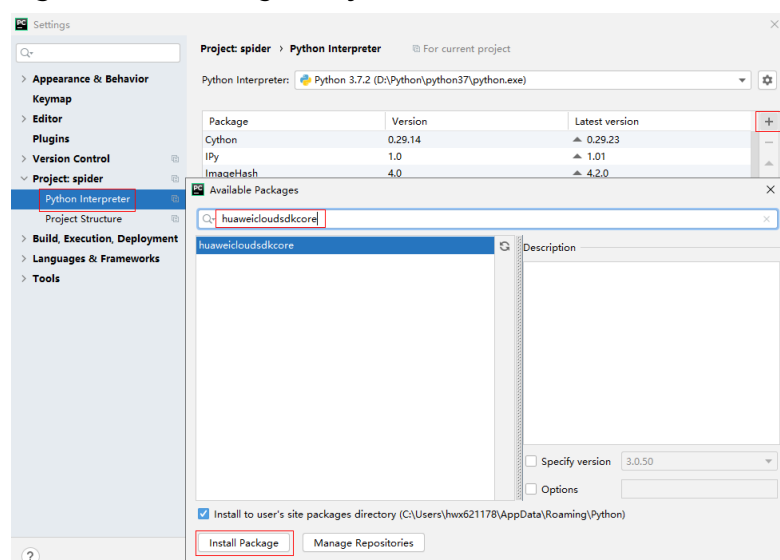
Install the SDK using pip commands:

```
# Install the core library.
pip install huaweicloudsdkcore
```

```
# Install the Moderation service library.
pip install huaweicloudsdkmoderation
```

On PyCharm, choose **File > Settings > Project > Python Interpreter**. Click + in the upper right corner, search for **huaweicloudsdkcore** and **huaweicloudsdkmoderation** respectively, and click **Install Package** in the lower left corner to install them.

Figure 4-2 Installing the Python SDK for Content Moderation using PyCharm



3. Copy the SDK sample code of Text Moderation to PyCharm as follows:

```
# coding: utf-8
from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2 import *
```

```

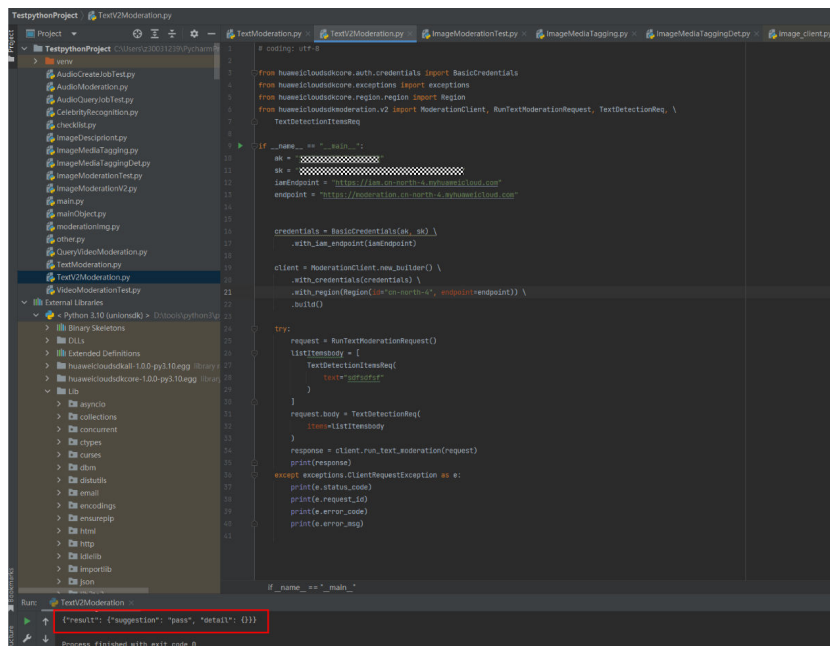
if __name__ == "__main__":
    //Enter your AK/SK.
    ak = "<YOUR AK>"
    sk = "<YOUR SK>"
    credentials = BasicCredentials(ak, sk) \
    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("ap-southeast-1")) \
        .build()
try:
    request = RunTextModerationRequest()
    listItemsbody = [
        TextDetectionItemsReq(
            text="asdfasdf" //Enter the text to be detected, for example, asdfasdf.
        )
    ]
    request.body = TextDetectionReq(
        items=listItemsbody
    )
    response = client.run_text_moderation(request)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
    
```

4. Obtain the AK and SK and replace <YOUR AK> and <YOUR SK> in the sample code with the AK and SK, respectively.

Log in to the [My Credentials](#) page, choose **Access Keys** in the navigation pane on the left, and click **Create Access Key** in the right pane.

5. Run the sample code to obtain the recognition result. You can interpret the review result based on the response parameter description. For details, see [Text Moderation Result](#).

Figure 4-3 Example



5 Viewing the Number of Calls

Function

You can view the moderation details and the number of calls on the Content Moderation console to better understand the moderation status and call statistics.

NOTE

This function is applicable to text, image, audio, and video moderation.

Procedure

1. Log in to the Content Moderation management console.
2. In the left navigation pane, choose **Content Moderation V3 > Identification Statistics**. On the **Text Moderation** page, you can view the identification statistics. You can set a time range and select a policy (event type) to view the change of the number of API calls within the time range.
 - **Identification Statistics:** total number of calls to Content Moderation, number of rejected calls, number of suspected calls, and number of passed calls within a specified period of time, helping you better learn the calls and moderation status of Content Moderation.
 - **Total:** total number of calls made to Content Moderation
 - **Rejected:** number of calls made to Content Moderation that are rejected because the text contains sensitive information
 - **Suspected:** number of calls made to Content Moderation that require manual review
 - **Passed:** number of calls made to Content Moderation that are approved
 - **Data Trend:** trend of the total number of calls, number of rejected calls, number of suspected calls, and number of passed calls within the specified period of time
 - **Causes of Rejected Data:** proportion of detection scenarios that fail to pass the review within the specified period of time

- **Causes of Suspected Data:** proportion of detection scenarios that require manual review within the specified period of time