

Message & SMS

API Reference

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1 Before You Start

1.1 Overview

Message & SMS is a communication service provided by Huawei Cloud together with global carriers and channels for enterprise users. It is easy to operate and flexible to use, providing you with consistent and stable experience. Enterprises can call APIs or use Group SMS Assistant to send verification code and notification SMSs.

This section describes Message & SMS APIs, parameters, and examples.

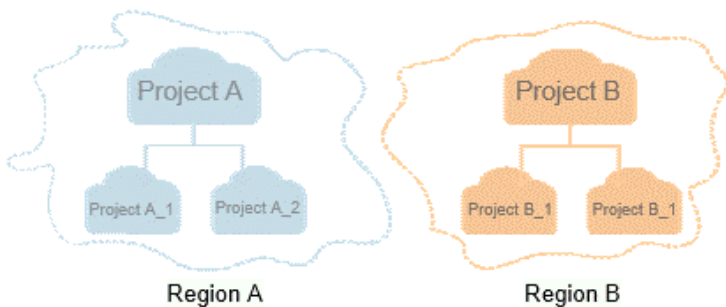
- For details about all APIs, see [API Overview](#).
- Before calling an API, ensure that you are familiar with basic concepts of Message & SMS. For details, see [Service Overview](#).

1.2 Constraints

- For details about the relationship between SMS applications, signatures, and templates, and restrictions, see [Resource Introduction](#).
- For details about constraints, see API descriptions.

1.3 Concepts

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

Concept	Description
User	An IAM user is created using an account to use cloud services. Each IAM user has its own identity credentials (password and access keys). An IAM user can view the account ID and user ID on the My Credentials page of the console. The domain name, username, and password will be required for API authentication.
Region	Regions are divided from the dimensions of geographical location and network latency. Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified into universal and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides specific services for specific tenants. For details, see Region and AZ.
Availability zone (AZ)	An AZ comprises one or more physical data centers equipped with independent cooling, fire extinguishing, moisture-proof, and electricity facilities. Computing, network, storage, and other resources in an AZ are logically divided into multiple clusters. AZs within a region are connected using high-speed optical fibers to support cross-AZ high-availability systems.
Project	Projects group and isolate resources (including compute, storage, and network resources) across physical regions. A default project is provided for each Huawei Cloud region. Users can be granted permissions to access all resources in a specific project. For more refined access control, create subprojects under a project and purchase resources in the subprojects. Users can then be assigned permissions for accessing only specific resources in the subprojects. Project isolation model 
Enterprise project	An enterprise project groups and manages enterprise resources in a logically isolated manner. An enterprise project can contain resources in multiple regions, and resources can be added to or removed from enterprise projects. For details about enterprise projects and how to obtain enterprise project IDs, see Enterprise Management User Guide.

2 API Overview

Message & SMS provides multiple APIs, as shown in the following table.

Table 2-1 APIs

Type	Subtype	Description
Application, signature, and template APIs	SMS application APIs	Used to query, create, and modify SMS applications, query the number of applications, and obtain application details.
	SMS signature APIs	Used to query, create, modify, and delete SMS signatures, obtain signature details, apply for signature activation, as well as query and upload application files.
	SMS template APIs	Used to query, create, modify, and delete SMS templates, obtain template details, query countries or regions to which SMSs are sent, query template variables, and delete templates in batches.
SMS Sending and Receiving APIs	SMS sending API	Used to send SMSs with the same content to one or more users.
	Batch SMS sending API	Used to send SMSs with different contents to different users.
	Status report receiving API	Used to receive SMS sending status reports.

3 APIs

3.1 Application, Signature, and Template APIs

3.1.1 Calling APIs

3.1.1.1 Making an API Request

This section describes the structure of a RESTful API request, and uses the IAM service as an example to explain [how to obtain a user token](#) to call an API. The obtained token can then be used to authenticate the calling of other APIs.

Request URI

The format of a request URI is as follows:

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

Although a request URI is included in the request header, most programming languages or frameworks require passing the request URI separately.

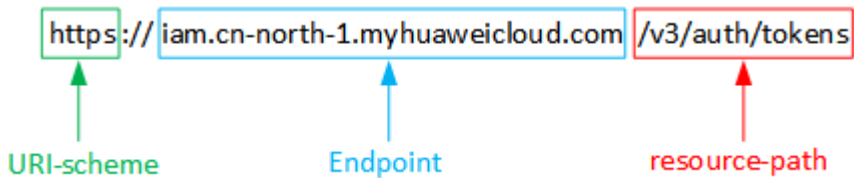
Table 3-1 URI parameters

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. The endpoint varies between services in different regions. It can be obtained from Regions and Endpoints . For details about Message & SMS endpoints, see Obtaining an Endpoint .
resource-path	Resource path, that is, API access path. Obtain the path from the URI of an API. For example, the resource-path of the API for obtaining a user token is /v3/auth/tokens .

Parameter	Description
query-string	(Optional) Query parameter. Ensure that a question mark (?) is included in front of each query parameter that is in the format of <i>Parameter name=Parameter value</i> . For example, ?limit=10 indicates that a maximum of 10 data records will be queried.

For example, to obtain an IAM token in the **CN-Hong Kong** region, obtain the endpoint of IAM (**iam.ap-southeast-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:

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.

Method

HTTP defines the following request methods that can be used to send a request to the server.

Table 3-2 HTTP methods

Method	Description
GET	Requests a server to return specified resources.
PUT	Requests a server to update specified resources.
POST	Requests a server to add resources or perform a special operation.
DELETE	Requests the server to delete specified resources, for example, an object.
HEAD	Requests a server for resource header.
PATCH	Requests a server to update part of specified resources. If the requested resource does not exist, the server may create a resource using the PATCH method.

In the case of the API used to [obtain a user token](#), the request method is POST. The request is as follows:

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

Request Header

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

For details about common request headers, see [Table 3-1](#).

Table 3-3 Common request header

Parameter	Description	Mandatory	Example
Host	Server information of the resource being requested. The value can be obtained from the URL of the service API. The value is in the format of <i>Hostname.Port number</i> . If the port number is not specified, the default port is used. The default port number for HTTPS is 443 .	No This parameter is mandatory for AK/SK authentication.	code.test.com or code.test.com:443
Content-Type	Message body type or format. The default value application/json is recommended. Other values of this field will be provided for specific APIs if any.	Yes	application/json
Content-Length	Length of a request body, in bytes.	No	3495

Parameter	Description	Mandatory	Example
X-Project-Id	Project ID. Obtain it by referring to Obtaining a Project ID .	No This field is mandatory for requests that use AK/SK authentication in the Dedicated Cloud (DeC) scenario or multi-project scenario.	e9993fc787d94b6c886cb aa340f9c0f4
X-Auth-Token	User token. The user token is a response to the API used to obtain a user token . This API is the only one that does not require authentication. After the request is processed, the value of X-Subject-Token in the response header is the token value.	No This parameter is mandatory for token authentication.	The following is part of an example token: MIIPAgYJKoZIhvcNAQc- Co...ggg1BBIINPXsidG9rZ

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

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

(Optional) Request Body

The request body is optional. A request body is often sent in a structured format (for example, JSON or XML) as defined in the **Content-Type** header field. If the request body contains full-width characters, these characters must be coded in UTF-8.

Request bodies vary depending on APIs. Some APIs do not require a request body, such as the APIs requested using the GET and DELETE methods.

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

(login password), *domainname* (account name), and *xxxxxxxxxxxxxxxxxxxxxx* (project name, for example, **ap-southeast-1**) with the actual values. For details about how to obtain the values, see [Obtaining Account, IAM User, Group, Project, Region, and Agency 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 details, see [Obtaining a User Token](#).

```
POST https://iam.cn-north-1.myhuaweicloud.com/v3/auth/tokens
Content-Type: application/json
{
  "auth": {
    "identity": {
      "methods": [
        "password"
      ],
      "password": {
        "user": {
          "name": "username",
          "password": "*****",
          "domain": {
            "name": "domainname"
          }
        }
      }
    },
    "scope": {
      "project": {
        "name": "xxxxxxxxxxxxxxxxxxxxxx"
      }
    }
  }
}
```

If all data required for the API request is available, you can send the request to call an API through [curl](#), [Postman](#), or coding. In the response to the API used to obtain a user token, **x-subject-token** is the target user token. You can use this token to authenticate the calling of other APIs.

3.1.1.2 Authentication

API calling requests must be authenticated using tokens.

Token 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 for obtaining a user token.

A token specifies temporary permissions in a computer system. During API authentication using a token, the token is added to requests to get permissions for calling the API. Obtain it by calling the API for [obtaining user token](#).

A cloud service can be deployed as either a project-level service or global service.

- For a project-level service, obtain a project-level token. When you call the API, set **auth.scope** in the request body to **project**.

- For a global service, obtain a global token. When you call the API, set **auth.scope** in the request body to **domain**.

Message & SMS is a project-level service. When you call the API for **obtaining a user token**, 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 **ABCDEFGF....**, add **X-Auth-Token: ABCDEFG....** to a request as follows:

```
GET https://iam.ap-southeast-1.myhuaweicloud.com/v3/auth/projects
Content-Type: application/json
X-Auth-Token: ABCDEFG....
```

3.1.1.3 Response

Status Code

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

A status code is a group of digits, ranging from 2xx to 4xx. It indicates the status of a request. For more information, see [Status Codes](#).

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

Response Header

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

Figure 3-2 shows the response header fields for the API used to **obtain a user token**. The **x-subject-token** header field is the desired user token. You can use this token to authenticate the calling of other APIs.

Figure 3-2 Header for the API used to obtain 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
→ MIIYXQYJKoZIhvcNAQcCoIIYJCCEoCAQExDTALBgIghkgB8ZQMEAgEwgharBgkqhkiG9w0B8wGgghacBIIWmHsidG9rZW4iOansiZXhwaXJlc19hdCI6IjIwMTktMDItMTNUMC
fj3KJ56YgKnpVNRbW2eZ5eb78SZOkqjACgklqO1wi4JIGzrpd18LGXK5bdfq4lqHCYb8P4NaY0NYejcAgzjVeFYtLWT1GSO0zxKZmlQHq82HBqHdglZO9fuEbL5dMhdavj+33wEl
xHRC9I87o+k9-
j+CMZSEB7bUGd5Uj6eRASXl1jipPEGA270g1FrUooL6jagglFkNPQuFSOU8+uSsttVwRtnfsC+qTp22Rkd5MCqFGQ8LcuUxC3a+9CMBnOintWW7oeRUVhVpxk8pxiX1wTEboX-
RzT6MUbpvGw-oPNFYxJECKnoH3Hrozv0vN--n5d6Nbxg==

x-xss-protection → 1; mode=block;

```

(Optional) Response Body

The request body is optional. The body of a response is often returned in a structured format (for example, JSON or XML) as specified in the **Content-Type** header field. The response body transfers content except the response header.

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

```

{
  "token": {
    "expires_at": "2019-02-13T06:52:13.855000Z",
    "methods": [
      "password"
    ],
    "catalog": [
      {
        "endpoints": [
          {
            "region_id": "az-01",

```

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

```

{
  "error_msg": "The format of message is error",
  "error_code": "AS.0001"
}

```

3.1.2 Obtaining Required Information

3.1.2.1 Obtaining an Endpoint

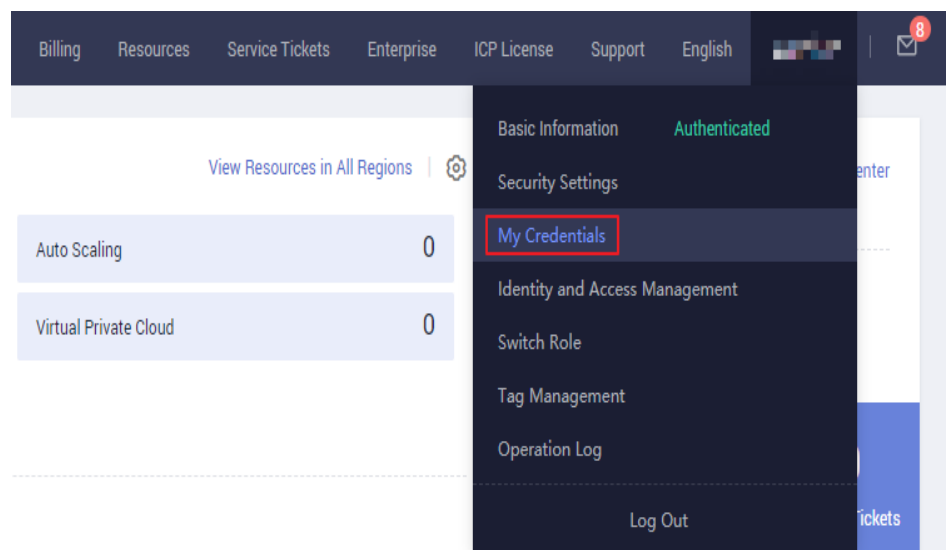
The following table lists the endpoints of Message & SMS.

Parameter	Description
Endpoint Web	Available endpoint for Message & SMS: CN-Hong Kong: msgsms.ap-southeast-1.myhuaweicloud.com NOTE Only domain names can be used to obtain the endpoint.

3.1.2.2 Obtaining Account, User, and Project Information

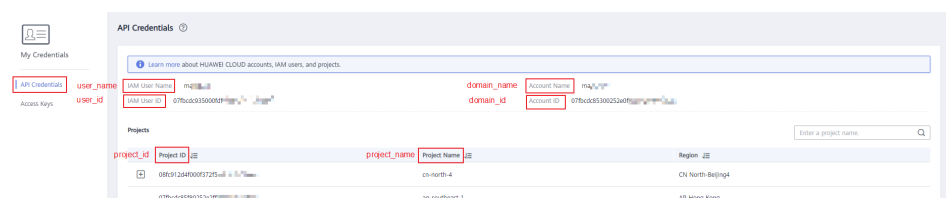
- Using the console
 - On the Huawei Cloud homepage, click **Console** in the upper right corner.
 - Hover over the username in the upper right corner and choose **My Credentials**.

Figure 3-3 My Credentials



- View the account name, account ID, username, user ID, project name, and project ID on the **API Credentials** page.

Figure 3-4 Viewing the account, user, and project information



- Calling an API
 - For details about how to obtain a user ID, see [Listing IAM Users](#).
 - For details about how to obtain a project ID, see [Querying Project Information](#).

3.1.3 SMS Application APIs

3.1.3.1 Creating an SMS Application (CreateApp)

Function

This API is used to create an application.

URI

POST /v2/{project_id}/msgsms/apps

Table 3-4 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-5 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .

Table 3-6 Request body parameters

Parameter	Mandatory	Type	Description
app_name	Yes	String	Application name.

Parameter	Mandatory	Type	Description
create_sign_and_template	No	Boolean	Whether to create a test signature and template. This parameter is valid only when region is set to cn . true: yes false: no
region	Yes	String	Region. cn: Chinese mainland intl: international
up_link_addr	No	String	Uplink callback address. This parameter is valid only when region is set to cn .
show_secret	No	Boolean	Whether to display app_secret in the returned message.

Response Parameters

Status code: 200

Table 3-7 Response body parameters

Parameter	Type	Description
app_key	String	Application key.
app_name	String	Application name.
id	String	Primary key ID of the application.
app_secret	String	Application secret, which is carried in SMS messages.

Request Example

```
POST /v2/845ada5bc7444f1295cd517af0123da1/msgsms/apps
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
Content-Length: 144

{
  "app_name": "auto_test789",
  "create_sign_and_template": 0,
  "enterprise_project_id": "0",
  "enterprise_project_name": "default",
  "region": "cn",
  "show_secret": true
}
```

Response Example

```
{
  "id": "9e61f59c-1a6b-4ee5-9651-5bca450694b3",
  "app_key": "*****3baZf4c856O4Qrbqvui3K2",
  "app_name": "auto_test789",
  "app_secret": "*****3baZf4c85Qrbqvui3K2iu"
}
```

Returned Values

Status Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.3.2 Modifying an SMS Application (UpdateApp)

Function

This API is used to modify application information.

URI

PUT /v2/{project_id}/msgsms/apps/{id}

Table 3-8 URI parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Primary key ID of the application. For details, see id in Table 3-16 .
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-9 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Table 3-10 Request body parameters

Parameter	Mandatory	Type	Description
app_name	Yes	String	Application name.
create_sign_and_template	No	Boolean	Whether to create a test signature and template. This parameter is valid only when region is set to cn . true: yes false: no
region	Yes	String	Region. cn: Chinese mainland intl: international
up_link_addr	No	String	Uplink callback address. This parameter is valid only when region is set to cn .

Response Parameters

Status code: 200

Table 3-11 Response body parameters

Parameter	Type	Description
app_key	String	Application key.
app_name	String	Application name.
id	String	Primary key ID of the application.

Request Example

```
PUT /v2/845ada5bc7444f1295cd517af0123da1/msgsms/apps/9e61f59c-1a6b-4ee5-9651-5bca450694b3
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
Content-Length: 148

{
  "app_name": "auto_test7890",
  "create_sign_and_template": 0,
  "enterprise_project_id": "0",
  "enterprise_project_name": "default",
  "region": "cn"
}
```

Response Example

```
{
  "id": "*****9c-1a6b-4ee5-9651-5bca450694b3",
  "app_key": "*****3baZf4c856O4Qrbqvui3K2",
  "app_name": "auto_test7890"
}
```

Returned Values

Status Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.3.3 Querying an SMS Application (ListAppDetails)

Function

This API is used to query information about a created application.

URI

GET /v2/{project_id}/msgsms/apps

Table 3-12 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Table 3-13 Query parameters

Parameter	Mandatory	Type	Description
app_name	No	String	Application name.
end_time	No	String	End time.
limit	No	Integer	Quantity. The default value is 10 .
offset	No	Integer	Offset.
region	No	String	Region. • cn: Chinese mainland • intl: international
sort_dir	No	String	Sorting method. • desc: The query results are displayed in the descending order. • asc: The query results are displayed in ascending order.
sort_key	No	String	Sorting field. Only create_time is supported.
start_time	No	String	Start time.
status	No	String	Status.

Request Parameters

Table 3-14 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Response Parameters

Status code: 200

Table 3-15 Response body parameters

Parameter	Type	Description
results	Array of SmsAppQueryResp	Query result.
total	Long	Total number.

Table 3-16 SmsAppQueryResp response parameters

Parameter	Description
id	Primary key ID of the application. It is unique and is used to obtain and modify the application.
create_time	Creation time.
update_time	Update time.
customer_id	Customer ID.
resource_id	Resource ID.
developer_account	Developer account.
app_name	Application name.
app_key	Application key.

Parameter	Description
status	Application status. • CREATED: pending (to be brought online). The application has not been created. Wait for a while. • SUSPENDED: suspended. Service requests cannot be initiated. If the SMS content sent violates service rules or you apply to unsubscribe from the Message & SMS service, the operation manager will suspend your SMS application. • LAUNCHED: normal. The application is added and can be used properly. • PROCESSING: Resources are to be allocated. Contact the account manager or submit a service ticket to apply for resource configuration.
region	Region.
intl_channel_num	International SMS channel number.
enterprise_project_id	Enterprise project ID.
enterprise_project_name	Enterprise project name.
app_access_addr	Access address.
protocol	Protocol.
platform	Platform.

Request Example

```
GET /v2/845ada5bc7444f1295cd517af0123da1/msgsms/apps?app_name=auto_test789
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
```

Response Example

```
{
  "results": [
    {
      "id": "9e61f59c-1a6b-4ee5-9651-5bca450694b3",
      "create_time": "2022-08-12 06:51:17",
      "update_time": "2022-08-12 06:51:17",
      "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
      "tenant": {
        "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
        "customer_name": "****05",
        "enterprise_name": "Huawei Technologies Co., Ltd."
      },
      "resource_id": "*****8a-a690-4e14-a1c7-2430937336d0",
      "developer_account": "*****66_sms",
      "app_name": "auto_test789",
    }
  ]
}
```

```
{
  "omp_app_name": "*****4877bf46b5906a3240636bc7aa",
  "app_key": "*****3baZf4c856O4Qrbqvui3K2",
  "status": "LAUNCHED",
  "industry": 14,
  "region": "cn",
  "intl_channel_num": "*****886739",
  "enterprise_project_id": "0",
  "enterprise_project_name": "default",
  "app_access_addr": "https://100.**:***.**:443",
  "protocol": "HTTP",
  "platform": "NFV",
  "is_support_multiomp": false
},
"total": 1
}
```

Returned Values

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.3.4 Querying the Number of Applications (ShowAppCount)

Function

This API is used to query the number of used applications.

URI

GET /v2/{project_id}/msgsms/apps-count

Table 3-17 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Table 3-18 Query parameter

Parameter	Mandatory	Type	Description
region	Yes	String	Region. cn: Chinese mainland intl: international

Request Parameters

Table 3-19 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Response Parameters

Status code: 200

Table 3-20 Response body parameters

Parameter	Type	Description
total	Integer	Total number.
used	Integer	Number of used applications.

Request Example

```
GET /v2/845ada5bc7444f1295cd517af0123da1/msgsms/apps-count?region=cn
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
```

Response Example

```
{
  "total": 395,
  "used": 108
}
```

Returned Values

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.3.5 Obtaining Application Details (ShowApp)

Function

This API is used to query application details.

URI

GET /v2/{project_id}/msgsms/apps/{id}

Table 3-21 URI parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Primary key ID of the application. For details, see id in Table 3-16 .
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-22 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Response Parameters

Status code: 200

Table 3-23 Response body parameters

Parameter	Description
id	Primary key ID of the application.
create_time	Creation time.
update_time	Update time.
customer_id	Customer ID.
resource_id	Resource ID.
developer_account	Developer account.
app_name	Application name.
app_key	Application key.
status	Application status. • CREATED: pending (to be brought online). The application has not been created. Wait for a while. • SUSPENDED: suspended. Service requests cannot be initiated. If the SMS content sent violates service rules or you apply to unsubscribe from the Message & SMS service, the operation manager will suspend your SMS application. • LAUNCHED: normal. The application is added and can be used properly. • PROCESSING: Resources are to be allocated. Contact the account manager or submit a service ticket to apply for resource configuration.
region	Region.
intl_channel_number	International SMS channel number.
enterprise_project_id	Enterprise project ID.

Parameter	Description
enterprise_project_name	Enterprise project name.
app_access_addr	Access address.
protocol	Protocol.
platform	Platform.

Request Example

```
GET /v2/845ada5bc7444f1295cd517af0123da1/msgsms/apps/9e61f59c-1a6b-4ee5-9651-5bca450694b3
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
```

Response Example

```
{
  "id": "9e61f59c-1a6b-4ee5-9651-5bca450694b3",
  "create_time": "2022-08-12 06:51:17",
  "update_time": "2022-08-12 06:51:17",
  "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
  "tenant": {
    "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
    "customer_name": "****05",
    "enterprise_name": "Huawei Technologies Co., Ltd."
  },
  "resource_id": "*****8a-a690-4e14-a1c7-2430937336d0",
  "developer_account": "****66_sms",
  "app_name": "auto_test789",
  "omp_app_name": "*****4877bf46b5906a3240636bc7aa",
  "app_key": "*****3baZf4c856O4Qrbqvui3K2",
  "status": "LAUNCHED",
  "industry": 14,
  "region": "cn",
  "intl_channel_num": "*****886739",
  "enterprise_project_id": "0",
  "enterprise_project_name": "default",
  "protocol": "HTTP",
  "platform": "NFV",
  "is_support_multiomp": false
}
```

Returned Values

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.4 SMS Signature APIs

3.1.4.1 Creating an SMS Signature (CreateSignature)

Function

This API is used to create a signature.

URI

POST /v2/{project_id}/msgsms/signatures

Table 3-24 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-25 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Table 3-26 Request body parameters

Parameter	Mandatory	Type	Description
app_id	Yes	String	Primary key ID of the application. For details, see id in Table 3-16 .
apply_desc	No	String	Application description.

Parameter	Mandatory	Type	Description
file_id	No	String	Business license file ID, which is the value of file_id in Table 3-52 .
is_involved_third	Yes	String	Whether third-party rights and interests are involved. • Yes • No
power_attorney_fileid	No	String	File ID of the power of attorney, which is the value of file_id in Table 3-52 .
signature_name	Yes	String	Signature name.
signature_source	Yes	Integer	Signature source. Enumerated values: • 0: full name or short name of an enterprise or public institution • 1: full name or short name of the website filed by the MIIT (discarded) • 2: full name or short name of an application • 3: full name or short name of an applet or official account (discarded) • 4: full name or short name of a shop on an e-commerce platform (discarded) • 5: full name or short name of a trademark
signature_type	Yes	String	Signature type. Enumerated values: • VERIFY_CODE_TYPE: verification code • NOTIFY_TYPE: notification

Parameter	Mandatory	Type	Description
source_title_content	No	String	(Discarded) Signature Source Mandatory Value 0 No 1 Yes Website licensed by the Ministry of Industry and Information Technology (MIIT), for example, console.huaweicloud.com 2 Yes Application download address 3 Yes Full name of the official account or applet 4 Yes Shop address on the e-commerce platform 5 No
signature_related_file_id	No	String	Signature association screenshot. • ID of the ICP filing screenshot when the signature source is the full name of the application • ID of the screenshot of the trademark certificate when the signature source is the full name of the trademark Obtain the screenshot ID through the API for uploading application file.
registration_number	No	String	Trademark application or registration number. Transferred when the signature source is the full name of the trademark.
license_number	No	String	ICP filing/license number. Transferred when the signature source is the full name of the application.

Response Parameters

Status code: 200

Table 3-27 Response body parameters

Parameter	Type	Description
id	String	Primary key ID of the signature.
signature_id	String	Signature ID.
signature_name	String	Signature name.

Request Example

```
POST /v2/845ada5bc7444f1295cd517af0123da1/msgsms/signatures
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
Content-Length: 245

{
  "app_id":"*****9c-1a6b-4ee5-9651-5bca450694b3",
  "apply_desc":"test",
  "file_id":"*****ab-1390-4268-9463-73db98cdc2e1",
  "is_involved_third":"No",
  "signature_name":"auto_test789",
  "signature_source":"","0",
  "signature_type":"NOTIFY_TYPE"
}
```

Response Example

```
{
  "id": "*****bb-d48c-4c4d-b3da-baa8e4664852",
  "signature_id": "*****d1-196f-495f-abbe-42240469b8fc",
  "signature_name": "auto_test789"
}
```

Returned Values

Status Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.4.2 Deleting an SMS Signature (DeleteSignature)

Function

This API is used to delete a signature.

URI

DELETE /v2/{project_id}/msgsms/signatures/{id}

Table 3-28 URI parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Primary key ID of the signature. For details, see id in Table 3-38 .
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-29 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Request Example

```
DELETE /v2/845ada5bc7444f1295cd517af0123da1/msgsms/signatures/
eb55ddeb-76f3-4e07-94f4-9af775f8a9a7
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
```

Returned Values

Status Code	Description
200	OK

Status Code	Description
204	No Content
401	Unauthorized
403	Forbidden
500	System error

3.1.4.3 Modifying an SMS Signature (UpdateSignature)

Function

This API is used to modify signature information. Currently, only rejected SMS signatures can be modified.

URI

PUT /v2/{project_id}/msgsms/signatures/{id}

Table 3-30 URI parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Primary key ID of the signature. For details, see id in Table 3-38 .
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-31 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Table 3-32 Request body parameters

Parameter	Mandatory	Type	Description
app_id	Yes	String	Primary key ID of the application. For details, see id in Table 3-16 .
apply_desc	No	String	Application description.
file_id	No	String	Business license file ID, which is the value of file_id in Table 3-52 .
is_involved_third	Yes	String	Whether third-party rights and interests are involved. • Yes • No
power_attorney_fileid	No	String	File ID of the power of attorney, which is the value of file_id in Table 3-52 .
signature_name	Yes	String	Signature name.
signature_source	Yes	Integer	Signature source. Enumerated values: • 0: full name or short name of an enterprise or public institution • 1: full name or short name of the website filed by the MIIT (discarded) • 2: full name or short name of an application • 3: full name or short name of an applet or official account (discarded) • 4: full name or short name of a shop on an e-commerce platform (discarded) • 5: full name or short name of a trademark
signature_type	Yes	String	Signature type. Enumerated values: • VERIFY_CODE_TYPE: verification code • NOTIFY_TYPE: notification

Parameter	Mandatory	Type	Description
source_title_content	No	String	(Discarded) Signature Source Mandatory Value 0 No 1 Yes Website licensed by the Ministry of Industry and Information Technology (MIIT), for example, console.huaweicloud.com 2 Yes Application download address 3 Yes Full name of the official account or applet 4 Yes Shop address on the e-commerce platform 5 No
signature_related_file_id	No	String	Signature association screenshot. • ID of the ICP filing screenshot when the signature source is the full name of the application • ID of the screenshot of the trademark certificate when the signature source is the full name of the trademark Obtain the screenshot ID through the API for uploading application file.
registration_number	No	String	Trademark application or registration number. Transferred when the signature source is the full name of the trademark.
license_number	No	String	ICP filing/license number. Transferred when the signature source is the full name of the application.

Response Parameters

Status code: 200

Table 3-33 Response body parameters

Parameter	Type	Description
id	String	Primary key ID of the signature.
signature_id	String	Signature ID.
signature_name	String	Signature name.

Request Example

```
PUT /v2/845ada5bc7444f1295cd517af0123da1/msgsms/signatures/
eb55ddeb-76f3-4e07-94f4-9af775f8a9a7
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
Content-Length: 245

{
  "app_id": "*****9c-1a6b-4ee5-9651-5bca450694b3",
  "apply_desc": "test",
  "file_id": "*****93-e9e4-4fa9-b9eb-6424f4974c4b",
  "is_involved_third": "No",
  "signature_name": "auto_test789",
  "signature_source": "0",
  "signature_type": "NOTIFY_TYPE"
}
```

Response Example

```
{
  "id": "*****eb-76f3-4e07-94f4-9af775f8a9a7",
  "signature_id": "*****d9-660c-4bd5-ad59-d4be6af32667",
  "signature_name": "auto_test789"
}
```

Returned Values

Status Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.4.4 Querying Signature Information (ListSignatureDetails)

Function

This API is used to query information about a created SMS signature.

URI

GET /v2/{project_id}/msgsms/signatures

Table 3-34 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Table 3-35 Query parameters

Parameter	Mandatory	Type	Description
app_name	No	String	Application name.
end_time	No	String	End time.
limit	No	Integer	Quantity. The default value is 10 .
offset	No	Integer	Offset.
signature_id	No	String	Signature ID.
signature_name	No	String	Signature name.
signature_type	No	String	Signature type.
site	No	String	Region. Options: cn and hk . Currently, this parameter is not in use.
sort_dir	No	String	Sorting method. desc: The query results are displayed in the descending order. asc: The query results are displayed in ascending order.
sort_key	No	String	Sorting field. Only create_time is supported.

Parameter	Mandatory	Type	Description
start_time	No	String	Start time.
status	No	String	Status. ● PENDING_REVIEW: The signature is to be reviewed. ● PROCESSING: The content is approved and the signature is being processed. ● REVIEW_PASSED: The processing is complete. ● REVIEW_NOT_PASS: The signature is rejected. ● TO_BE_ACTIVATED: The signature is to be activated. ● PENDING_ACTIVATE: The activation is being reviewed.

Request Parameters

Table 3-36 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Response Parameters

Status code: 200

Table 3-37 Response body parameters

Parameter	Type	Description
results	Array of SmsSignatureResp	Query result.
total	Long	Total number.

Table 3-38 SmsSignatureResp response parameters

Parameter	Description
id	Primary key ID of the signature. It is unique and is used to obtain, modify, delete, and activate the signature.
signature_name	Signature name.
app_key	Application key.
customer_id	Customer ID.
signature_type	Signature type.
signature_id	Signature ID.
app_name	Application name.
signature_usage	Signature usage.
create_time	Creation time.
apply_desc	Application description.
channel_num	Channel number for the Chinese mainland SMS. This parameter is returned only when the signature is approved and the configuration is completed by the operations personnel.
file_id	File ID.
status	Status.
signature_source	Signature source.
is_involved_third	Whether third-party rights and interests are involved.
signature_related_file_id	Signature association screenshot ID.
registration_number	Trademark application/registration number.
license_number	ICP filing or license number.

Request Example

```
GET /v2/845ada5bc7444f1295cd517af0123da1/msgsms/signatures?signature_name=auto_test789 HTTP/1.1
Host: 100.85.***.***:30300
Content-Type: multipart/form-data; boundary=----WebKitFormBoundary7MA4YWxkTrZu0gW
X-Auth-Token:*****
Content-Length: 38

----WebKitFormBoundary7MA4YWxkTrZu0gW
```

Response Example

```
{
  "results": [
    {
      "create_time": "2022-08-12 07:14:18",
      "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
      "tenant": {
        "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
        "customer_name": "****05",
        "enterprise_name": "Huawei Technologies Co., Ltd."
      },
      "id": "*****bb-d48c-4c4d-b3da-baa8e4664852",
      "signature_name": "auto_test789",
      "signature_id": "*****d1-196f-495f-abbe-42240469b8fc",
      "signature_type": "NOTIFY_TYPE",
      "app_name": "auto_test7890",
      "apply_desc": "test",
      "channel_num": "*****1733968",
      "file_id": "*****ab-1390-4268-9463-73db98cdc2e1",
      "status": "PENDING_REVIEW",
      "site": "cn",
      "signature_source": 0,
      "is_involved_third": "No",
      "app_key": "*****3baZf4c856O4Qrbqvui3K2",
      "signature_usage": "COMMERCIAL",
      "signature_related_file_id": "*****-8415-4419-a928-36386b3cbb4c",
      "registration_number": "89654**",
      "license_number": " Shanghai ICP No. 15**535"
    }
  ],
  "total": 1
}
```

Returned Values

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.4.5 Obtaining Signature Details (ShowSignature)

Function

This API is used to query signature details.

URI

GET /v2/{project_id}/msgsms/signatures/{id}

Table 3-39 URI parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Primary key ID of the signature. For details, see id in Table 3-38 .
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-40 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Response Parameters

Status code: 200

Table 3-41 SmsSignatureResp response parameters

Parameter	Description
id	Primary key ID of the signature.
signature_name	Signature name.

Parameter	Description
app_key	Application key.
customer_id	Customer ID.
signature_type	Signature type.
signature_id	Signature ID.
app_name	Application name.
signature_usage	Signature usage.
create_time	Creation time.
apply_desc	Application description.
channel_num	Channel number for the Chinese mainland SMS. This parameter is returned only when the signature is approved and the configuration is completed by the operations personnel.
file_id	File ID.
status	Status.
signature_source	Signature source.
is_involved_third	Whether third-party rights and interests are involved.
signature_related_file_id	Signature association screenshot ID.
registration_number	Trademark application/registration number.
license_number	ICP filing or license number.

Request Example

```
GET /v2/845ada5bc7444f1295cd517af0123da1/msgsms/signatures/07cfacbb-d48c-4c4d-b3da-baa8e4664852
Host: 100.85.***.***:30300
Content-Type: multipart/form-data; boundary=----WebKitFormBoundary7MA4YWxkTrZu0gW
X-Auth-Token:*****
Content-Length: 38

----WebKitFormBoundary7MA4YWxkTrZu0gW
```

Response Example

```
{
  "create_time": "2022-08-12 07:14:18",
  "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
  "tenant": {
    "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
    "customer_name": "*****05",
    "enterprise_name": "Huawei Technologies Co., Ltd."
  },
  "id": "*****bb-d48c-4c4d-b3da-baa8e4664852",
  "signature_name": "auto_test789",
```

```
{
  "signature_id": "*****1-196f-495f-abbe-42240469b8fc",
  "signature_type": "NOTIFY_TYPE",
  "app_name": "auto_test7890",
  "apply_desc": "test",
  "channel_num": "*****1733968",
  "file_id": "*****ab-1390-4268-9463-73db98cdc2e1",
  "status": "PENDING_REVIEW",
  "site": "cn",
  "signature_source": 0,
  "is_involved_third": "No",
  "app_key": "*****3baZf4c856O4Qrbqvui3K2",
  "signature_usage": "COMMERCIAL",
  "signature_related_file_id": "*****-8415-4419-a928-36386b3cbb4c",
  "registration_number": "89654**",
  "license_number": " Shanghai ICP No. 15**535"
}
```

Returned Values

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.4.6 Applying for Activating a Signature (EnableSignature)

Function

This API is used to apply for activating a signature.

URI

PUT /v2/{project_id}/msgsms/signatures/{id}/active

Table 3-42 URI parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Primary key ID of the signature. For details, see id in Table 3-38 .
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-43 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Request Example

```
PUT /v2/845ada5bc7444f1295cd517af0123da1/msgsms/signatures/07cfacbb-d48c-4c4d-b3da-
baa8e4664852/active
Host: 100.85.***.***:30300
Content-Type: multipart/form-data; boundary=----WebKitFormBoundary7MA4YWxkTrZu0gW
X-Auth-Token:*****
Content-Length: 38

----WebKitFormBoundary7MA4YWxkTrZu0gW
```

Response Example

```
{
  "error_code": "MSGSMS.0130",
  "error_msg": "Signature status should be to be activated.",
  "error_detail": "Signature status should be TO_BE_ACTIVATED."
}
```

3.1.4.7 Querying an Application File (ShowSignatureFile)

Function

This API is used to query information about the uploaded file.

URI

GET /v2/{project_id}/msgsms/upload-files

Table 3-44 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Table 3-45 Query parameter

Parameter	Mandatory	Type	Description
file_id	Yes	String	Business license ID.

Request Parameters

Table 3-46 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Response Parameters

Status code: 200

Table 3-47 Response body parameters

Parameter	Type	Description
file_desc	String	File description.
file_id	String	File ID.
file_name	String	File name.
file_ref	Integer	File reference.
file_size	Long	File size.
file_type	Integer	File type.
module_type	Integer	Module type.
operator	String	Operator.
update_time	String	Update time.

Request Example

```
GET /v2/845ada5bc7444f1295cd517af0123da1/msgsms/upload-files?
file_id=057a76ab-1390-4268-9463-73db98cdc2e1
```

```
Host: 100.85.***.***:30300
Content-Type: multipart/form-data; boundary=<calculated when request is sent>
X-Auth-Token:*****X
```

Response Example

```
{
  "file_id": "*****ab-1390-4268-9463-73db98cdc2e1",
  "module_type": 2,
  "operator": "*****c55c3c4526b2ed7a0213bc9871",
  "file_type": 1,
  "file_name": "test.PNG",
  "file_size": 327,
  "file_ref": 1,
  "update_time": "2022-08-12 07:13:24"
}
```

Returned Values

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.4.8 Uploading an Application File (UploadSignatureFile)

Function

This API is used to upload a file.

URI

POST /v2/{project_id}/msgsms/upload-files

Table 3-48 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Table 3-49 Query parameter

Parameter	Mandatory	Type	Description
file_desc	No	String	Description

Request Parameters

Table 3-50 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to multipart/form-data; boundary=<calculated when request is sent> .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Table 3-51 FormData parameter

Parameter	Mandatory	Type	Description
file	Yes	File	Business license file, ICP filing screenshot, and trademark certificate

Response Parameters

Status code: 200

Table 3-52 Response body parameters

Parameter	Type	Description
file_desc	String	File description.
file_id	String	File ID.
file_name	String	File name.
file_ref	Integer	File reference.
file_size	Long	File size.

Parameter	Type	Description
file_type	Integer	File type.
module_type	Integer	Module type.
operator	String	Operator.
update_time	String	Update time.

Request Example

```
POST /v2/845ada5bc7444f1295cd517af0123da1/msgsms/upload-files
Host: 100.85.***.***:30300
Content-Type: multipart/form-data; boundary=----WebKitFormBoundary7MA4YWxkTrZu0gW
X-Auth-Token:*****
Content-Length: 219

----WebKitFormBoundary7MA4YWxkTrZu0gW
Content-Disposition: form-data; name="file"; filename="/C:/Users/*****/Desktop/test.PNG"
Content-Type: <Content-Type header here>

(data)
----WebKitFormBoundary7MA4YWxkTrZu0gW
```

Response Example

```
{
  "file_id": "*****ab-1390-4268-9463-73db98cdc2e1"
}
```

Returned Values

Status Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.5 SMS Template APIs

3.1.5.1 Creating an SMS Template (CreateTemplate)

Function

This API is used to create a template.

URI

POST /v2/{project_id}/msgsms/templates

Table 3-53 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-54 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Table 3-55 Request body parameters

Parameter	Mandatory	Type	Description
app_id	Yes	String	Primary key ID of the application. For details, see ID in Table 3-16 .

Parameter	Mandatory	Type	Description
brackets	No	String	Bracket type. Enumerated values: • CN: Chinese brackets • GB: English brackets ([]) NOTICE • Default value: CN • If the entered value is not within the preceding enumerated value range, the value is processed as CN. • This parameter is valid only when region is set to cn.
region	Yes	String	Region. • cn: Chinese mainland • intl: international
send_country	No	Array of integers	List of IDs of countries or regions to which SMSs are sent. It can be obtained from Table 3-71 . This parameter is mandatory when region is set to intl .
sign_id	No	String	Primary key ID of the signature. For details, see ID in Table 3-38 . This parameter is valid only when the region is the Chinese mainland and the value of universal_template is not 1.
template_content	Yes	String	Template content. Read Template and Variable Specifications and Sample Template carefully before configuring this parameter.
template_desc	No	String	Template description.
template_name	Yes	String	Template name.

Parameter	Mandatory	Type	Description
template_type	Yes	String	Template type. This parameter is valid only when the region is the Chinese mainland and the value of universal_template is 1. If universal_template is set to 0, the template type uses the associated signature type. Enumerated values: • VERIFY_CODE_TYPE: verification code • NOTIFY_TYPE: notification For international SMSs, the value is fixed to NOTIFY_TYPE.
universal_template	No	Integer	Whether the template is a general template. When the input parameter is set to 1, the sign_id field is invalid. • 0: non-general template • 1: general template

Response Parameters

Table 3-56 Response body parameters

Parameter	Type	Description
id	String	Primary key ID of the template.
template_name	String	Template name.

Request Example

```
POST /v2/845ada5bc7444f1295cd517af0123da1/msgsms/templates
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token: ****
Content-Length: 308

{
  "app_id": "*****9c-1a6b-4ee5-9651-5bca450694b3",
  "brackets": "GB",
  "region": "cn",
  "sign_id": "*****10-c3fb-427e-965c-a98ae844c5bd",
  "template_content": "Test",
  "template_name": "auto_test789",
  "template_type": "NOTIFY_TYPE",
```

```
{
  "universal_template": 0
}
```

Response Example

```
{
  "id": "*****27-37eb-4229-bee9-0eba4d8a897f",
  "template_name": "auto_test789"
}
```

Returned Values

Status Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.5.2 Deleting an SMS Template (DeleteTemplate)

Function

This API is used to delete a template.

URI

DELETE /v2/{project_id}/msgsms/templates/{id}

Table 3-57 URI parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Primary key ID of the template, which is the value of id in Table 3-67 .
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-58 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Request Example

```
DELETE /v2/845ada5bc7444f1295cd517af0123da1/msgsms/templates/c93e35f5-97c7-4954-
b426-2cbf344a748f
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token: ****
```

Returned Values

Status Code	Description
200	OK
204	No Content
401	Unauthorized
403	Forbidden
500	System error

3.1.5.3 Modifying an SMS Template (UpdateTemplate)

Function

This API is used to modify template information. You can modify an SMS template that is rejected, or an SMS template that is approved but disabled. You can also withdraw the application for a template that is currently under review or a template with a signature that is under review and make modifications.

URI

PUT /v2/{project_id}/msgsms/templates/{id}

Table 3-59 URI parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Primary key ID of the template, which is the value of ID in Table 3-67 .
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-60 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Table 3-61 Request body parameters

Parameter	Mandatory	Type	Description
app_id	Yes	String	Primary key ID of the application. For details, see ID in Table 3-16 .
brackets	No	String	Bracket type. Enumerated values: CN: Chinese brackets GB: English brackets ([]) NOTICE - Default value: CN - If the entered value is not within the preceding enumerated value range, the value is processed as CN. - This parameter is valid only when region is set to cn.

Parameter	Mandatory	Type	Description
region	Yes	String	Region. • cn: Chinese mainland • intl: international
send_country	No	Array of integers	List of IDs of countries or regions to which SMSs are sent. Obtain this parameter from Table 3-71 . This parameter is valid when region is set to intl .
sign_id	No	String	Signature ID. For details, see ID in Table 3-38 . This parameter is valid only when region is set to cn .
template_content	Yes	String	Template content.
template_desc	No	String	Template description.
template_name	Yes	String	Template name.
template_type	No	String	Template type. Enumerated values: • VERIFY_CODE_TYPE: verification code • NOTIFY_TYPE: notification For international SMSs, the value is fixed to NOTIFY_TYPE.
universal_template	No	Integer	Whether the template is a general template. • 0: non-general template • 1: general template
flow_status	No	String	Process status. • Pending: to be submitted • Reviewing: to be reviewed • Disable: disabled

Response Parameters

Status code: 200

Table 3-62 Response body parameters

Parameter	Description
id	Primary key ID of the template.
template_name	Template name.

Request Example

```
PUT /v2/845ada5bc7444f1295cd517af0123da1/msgsms/templates/c3f641aa-4e87-4a70-b84d-a2d685599072 HTTP/1.1
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token: ***
Content-Length: 311

{
  "app_id": "*****9c-1a6b-4ee5-9651-5bca450694b3",
  "brackets": "GB",
  "region": "cn",
  "sign_id": "*****58-e866-4b30-9ca5-a476a00e8775",
  "template_content": "Test",
  "template_name": "auto_test000",
  "template_type": "NOTIFY_TYPE",
  "universal_template": 0
}
```

Response Example

```
{
  "id": "*****aa-4e87-4a70-b84d-a2d685599072",
  "template_name": "auto_test000"
}
```

Returned Values

Status Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.5.4 Querying an SMS Template (ListTemplateDetails)

Function

This API is used to query information about a created template.

URI

GET /v2/{project_id}/msgsms/templates

Table 3-63 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Table 3-64 Query parameters

Parameter	Mandatory	Type	Description
app_key	No	String	Application key.
app_name	No	String	Application name.
end_time	No	String	End time.
flow_status	No	String	Process status. • Adopted: approved • Reviewing: under review • Reject: rejected • Disable: disabled • Pending: to be submitted • Adopted_inactive: approved, deactivated • SignReviewing: signature pending review (available only for Chinese mainland SMSs)
has_variable	No	String	Whether the template contains variables. • Yes • No
limit	No	Integer	Quantity. The default value is 10 .
offset	No	Integer	Offset.
region	No	String	Region.
sign_name	No	String	Signature name.

Parameter	Mandatory	Type	Description
sort_dir	No	String	Sorting method. • desc: The query results are displayed in the descending order. • asc: The query results are displayed in ascending order.
sort_key	No	String	Sorting field. Only create_time is supported.
start_time	No	String	Start time.
template_id	No	String	Template ID.
template_name	No	String	Template name.
template_type	No	String	Template type. • VERIFY_CODE_TYPE: verification code • NOTIFY_TYPE: notification For international SMSs, the value is fixed to NOTIFY_TYPE .

Request Parameters

Table 3-65 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Response Parameters

Status code: 200

Table 3-66 Response body parameters

Parameter	Type	Description
results	Array of SmsTemplateResp	Query result.
total	Long	Total number.

Table 3-67 SmsTemplateResp parameters

Parameter	Description
id	Primary key ID of the template. It is unique and is used to obtain, modify, and delete the template and query template variables.
template_name	Template name.
template_type	Template type.
template_content	Template content.
template_id	Template ID.
app_key	Application key.
sign_id	Signature ID.
create_time	Creation time.
customer_id	Customer ID.
has_variable	Whether the template contains variables.
flow_status	Process status.
status	Template statuses: • Test • Normal
universal_template	Whether the template is a general template.
review_desc	Review description.
country_name	Country or region.

Request Example

```
GET /v2/845ada5bc7444f1295cd517af0123da1/msgsms/templates?template_name=auto_test789
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token: ****
```

Response Example

```
{
  "results": [
    {
      "create_time": "2022-08-12 07:40:36",
      "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
      "tenant": {
        "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
        "customer_name": "****05",
        "enterprise_name": "Huawei Technologies Co., Ltd."
      },
      "id": "*****27-37eb-4229-bee9-0eba4d8a897f",
      "template_type": "NOTIFY_TYPE",
      "template_name": "auto_test789",
      "app_name": "auto_test7890",
      "app_key": "*****3baZf4c856O4Qrbqvui3K2",
      "sign_id": "*****b9-4141-4e2d-9838-14889c32a4bf",
      "template_content": "Test",
      "has_variable": "No",
      "flow_status": "Reviewing",
      "status": "Normal",
      "universal_template": 0,
      "region": "cn",
      "brackets": "GB",
      "site": "cn",
      "urge_status": "NO",
      "is_support_multiomp": false,
      "country_name": ""
    }
  ],
  "total": 1
}
```

Returned Values

Returned Value	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.5.5 Querying the Destination Country or Region (ListSendCountryDetails)

Function

This API is used to query the country or region to which SMSs are sent.

URI

GET /v2/{project_id}/msgsms/country

Table 3-68 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Table 3-69 Query parameters

Parameter	Mandatory	Type	Description
country_name_en	No	String	Country or region name (English).
country_name_zh	No	String	Country or region name (Chinese).

Request Parameters

Table 3-70 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Response Parameters

Table 3-71 SmsCountryResp response parameters

Parameter	Description
country_id	Country or region ID.
country_name_en	Country or region name (English).
country_name_zh	Country or region name (Chinese).

Request Example

```
GET /v2/845ada5bc7444f1295cd517af0123da1/msgsms/country?country_name_en=Afghanistan
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
```

Response Example

```
[
  {
    "country_name_en": "Afghanistan",
  }
]
```

Returned Values

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.5.6 Obtaining Template Details (ShowTemplate)

Function

This API is used to query details about a created template.

URI

GET /v2/{project_id}/msgsms/templates/{id}

Table 3-72 URI parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Primary key ID of the template, which is the value of id in Table 3-67 .
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-73 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Response Parameters

Status code: 200

Table 3-74 Response body parameters

Parameter	Description
id	Primary key ID of the template.
template_name	Template name.
template_type	Template type.
template_content	Template content.
template_id	Template ID.
app_key	Application key.
sign_id	Signature ID.
create_time	Creation time.
customer_id	Customer ID.
has_variable	Whether the template contains variables. • Yes • No

Parameter	Description
flow_status	Process status. • Adopted: approved • Reviewing: under review • Reject: rejected • Disable: disabled • Pending: to be submitted • Adopted_inactive: approved, deactivated • SignReviewing: signature pending review (available only for Chinese mainland SMSs)
status	Template statuses: • Test • Normal
universal_template	Whether the template is a general template. • 0: No • 1: Yes
review_desc	Review description.
country_name	Country or region.

Request Example

```
GET /v2/845ada5bc7444f1295cd517af0123da1/msgsms/templates/460a2427-37eb-4229-
bee9-0eba4d8a897f
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
```

Response Example

```
{
  "create_time": "2022-08-12 07:40:36",
  "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
  "tenant": {
    "customer_id": "*****c55c3c4526b2ed7a0213bc9871",
    "customer_name": "****05",
    "enterprise_name": "Huawei Technologies Co., Ltd."
  },
  "id": "*****27-37eb-4229-bee9-0eba4d8a897f",
  "template_id": "*****441aa84cb34849f84c3a",
  "template_type": "NOTIFY_TYPE",
  "template_name": "auto_test789",
  "app_name": "auto_test7890",
  "app_key": "*****3baZf4c856O4Qrbqvui3K2",
  "sign_id": "*****b9-4141-4e2d-9838-14889c32a4bf",
  "template_content": "Test",
  "has_variable": "No",
  "flow_status": "Reviewing",
  "status": "Normal",
  "universal_template": 0,
  "region": "cn",
  "brackets": "GB",
```

```
"site": "cn",  
"is_support_multiomp": false  
}
```

Returned Values

Returned Value	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.5.7 Querying Template Variables (ListTemplateVarilableDetails)

Function

This API is used to query template variables.

URI

GET /v2/{project_id}/msgsms/templates/{id}/varilable

Table 3-75 URI parameters

Parameter	Mandatory	Type	Description
id	Yes	String	Primary key ID of the template, which is the value of id in Table 3-67 .
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-76 Request header parameters

Parameter	Mandatory	Type	Description
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json .

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token.

Response Parameters

Table 3-77 Response body parameters

Parameter	Type	Description
results	Array of ApiTemplateVariable	Query result.
total	Long	Total number.

Table 3-78 ApiTemplateVariable

Parameter	Description
id	Variable ID.
temp_name	Template name.
variable_index	Variable index.
variable_type	Variable type.
variable_length	Variable length.
variable_desc	Variable description.

Request Example

```
GET /v2/845ada5bc7444f1295cd517af0123da1/msgsms/templates/
f063a294-06ab-420e-90bc-0c4dd9aed540/varilable
Host: 100.85.***.***:30300
Content-Type: application/json
X-Auth-Token:*****
```

Response Example

```
{
  "results": [
    {
      "id": 15003394,
```

```

    "user_name": null,
    "temp_name": "Test",
    "variable_index": 1,
    "variable_type": "URL",
    "variable_length": 99,
    "variable_desc": ""
  }
],
"total": 1
}

```

Returned Values

Status Code	Description
200	OK
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

3.1.5.8 Deleting SMS Templates in Batches (DeleteTemplates)

Function

This API is used to delete templates in batches.

URI

POST /v2/{project_id}/msgsms/templates/batch-delete

Table 3-79 URI parameter

Parameter	Mandatory	Type	Description
project_id	Yes	String	Project ID. For details, see Obtaining Account, User, and Project Information .

Request Parameters

Table 3-80 Request header parameters

Parameter	Mandatory	Type	Description
X-Auth-Token	Yes	String	User token. It can be obtained by calling the IAM API used to obtain a user token. The value of X-Subject-Token in the response header is a token. Minimum length: 1 Maximum length: 32,768
Content-Type	Yes	String	Request body parameter type. This parameter must be set to application/json;charset=utf8 . Default value: application/json;charset=utf8 Minimum length: 1 Maximum length: 255

Table 3-81 Request body parameters

Parameter	Mandatory	Type	Description
ids	No	Array of strings	Template primary key ID set. Minimum length: 1 Maximum length: 64 Array length: 1 to 50

Response Parameters

Status code: 200

Table 3-82 Response body parameters

Parameter	Type	Description
success_count	Integer	Number of successfully deleted records. Minimum value: 0 Maximum value: 50

Parameter	Type	Description
success_ids	Array of strings	Set of primary key IDs of templates that are successfully deleted. Minimum length: 1 Maximum length: 64 Array length: 0 to 50
failed_count	Integer	Number of records that fail to be deleted. Minimum value: 0 Maximum value: 50
failed_template_list	Array of SmsTemplateDeleteErrorInfo objects	Information list of template deletion failure. Array length: 0 to 50

Table 3-83 SmsTemplateDeleteErrorInfo

Parameter	Type	Description
id	String	Primary key ID of the template. Minimum length: 1 Maximum length: 64
error_msg	String	Information of template deletion failure. Minimum length: 1 Maximum length: 512

Status code: 400

Table 3-84 Response body parameters

Parameter	Type	Description
error_code	String	Error code. Minimum length: 8 Maximum length: 36
error_msg	String	Error message. Minimum length: 1 Maximum length: 512
error_detail	String	Description. Minimum length: 1 Maximum length: 512

Request Example

Delete templates whose primary key IDs are *******27-37eb-4229-bee9-0eba4d8a897f** and *******fe-8c9d-4cd2-9402-cd2fef488782** in batches.

```
POST https://{Endpoint}/v2/{project_id}/msgsms/templates/batch-delete
{
  "ids" : [ "*****27-37eb-4229-bee9-0eba4d8a897f", "*****fe-8c9d-4cd2-9402-cd2fef488782" ]
}
```

Response Example

Status code: 200

OK

```
{
  "success_count" : 1,
  "success_ids" : [ "*****27-37eb-4229-bee9-0eba4d8a897f" ],
  "failed_count" : 1,
  "failed_template_list" : [ {
    "id" : "*****fe-8c9d-4cd2-9402-cd2fef488782",
    "error_msg" : "Message Template Info does not EXIST"
  } ]
}
```

Returned Values

Status Code	Description
200	OK
400	Error response
401	Unauthorized
403	Forbidden
404	Not Found

3.2 SMS Sending and Receiving APIs

3.2.1 Calling APIs

3.2.1.1 Authentication

AK/SK or X-WSSE authentication is required for calling APIs.

NOTICE

AK/SK authentication mode is recommended because the algorithm is more secure.

AK/SK Authentication (Recommended)

NOTE

- AK/SK authentication supports API requests with a body not larger than 12 MB.
- The method of obtaining the AK, SK, and endpoint in this authentication is different from that in [common AK/SK authentication](#).

AK/SK is used to sign requests and the signature is then added to the request headers for authentication.

- **Application Key (AK):** access key ID, which is a unique identifier used in conjunction with a secret access key to sign requests cryptographically.
- **Application Secret (SK):** a key used together with the AK to sign requests. The AK and SK identify senders and prevent requests from being altered.

You can sign requests using an AK/SK based on the signature algorithm or using the signing SDK. This document provides signature SDKs and API calling examples in multiple languages, such as Java, Go, Python, and C. You can find the language you need in [Signing SDKs and Demo](#) and integrate the SDK into your application by referring to the examples and API calling description. Replace the **AK/SK** in the demos with the **Application Key** and **Application Secret** obtained from the Message & SMS console, and replace the **Endpoint/HOST** with the application access addresses described in [API Usage Description](#). **X-Project-Id**, **X-Domain-Id**, and **Project_Id** are not involved.

NOTICE

Unlike the SDKs provided by Message & SMS, the signing SDK is used only for signing.

X-WSSE Authentication

X-WSSE authentication is used for calling SMS sending APIs. The X-WSSE token is a string with a single HTTP header line.

X-WSSE format: **UsernameToken Username="Application key value", PasswordDigest="Value of PasswordDigest", Nonce="Random string", Created="Time when the random string is generated"**

- **PasswordDigest:** The value is generated based on **Base64 (SHA256 (Nonce + Created + Password))**. The string consisting of **Nonce**, **Created**, and **Password** is SHA256 encrypted and does not contain plus signs (+) or spaces. **Password** indicates the value of application secret.
- **Nonce:** When a platform user sends a request, a 1–128 character string with letters and digits is generated, for example, **66C92B11FF8A425FB8D4CCFE0ED9ED1F**.

- Created:** indicates the time when the random string is generated. Standard UTC is used, for example, **2018-02-12T15:30:20Z**. The time formats vary by programming language. For details, see [Table 3-87](#).

When you call SMS sending APIs, add the obtained X-WSSE token to the request header by referring to the following example:

```
POST /sms/batchSendSms/v1 HTTP/1.1
x-real-ip: 10.10.10.10
x-real-port: 10443
host: ompap.inner
content-length: 184
date: Fri, 13 Apr 2018 06:31:39 GMT
authorization: WSSE realm="SDP",profile="UsernameToken",type="Appkey"
x-wsse: UsernameToken
Username="ARBRz4bAXoFgEH7o4Ew308eXc1RA",PasswordDigest="NDA1MWlwNjl2ZTkYNWFlM2FhMTE5ND
DE1YTk5NjU1YWWE4NjNlZTY1MmRhYzkxZGVhZGViNmRlcjZjdjMjkzZWQ4ZjAwNA==",Nonce="ac1c911c4792492687f8
f6b2264a491e",Created="2018-05-26T00:35:30Z"
accept: application/json
content-type: application/x-www-form-urlencoded

from=1069*****0012&to=
%2B86155****5678&templateId=abcdefghijklmnabcdefgabcdefgabcdefgh&templateParas=%5B
%22520520%22%5D&statusCallback=http%3A%2F%2F205%2E145%2E111%2E168%3A9330%2Freport
```

3.2.2 API Usage Description

API List

Sending SMSs	Receiving Status Reports
• SMS Sending API: sends SMSs of the same content to one or more users. • Batch SMS Sending API: sends SMSs of different content to multiple users.	Status Report Receiving API: receives SMS sending status reports.

API Request Address

The API request address does not differentiate regions and provinces. The Message & SMS service on the Huawei Cloud international website uses the same address. The API request address consists of the **Application Access Address** and **URI**. The data sources are as follows:

Parameter	Source	Example
Application Access Address	Log in to the Message & SMS console, and choose International SMS > Application Management or Chinese Mainland SMS > Application Management to obtain the application access address.	https://smsapi.ap-southeast-1.myhuaweicloud.com:443

Parameter	Source	Example
URI	Obtain the URI from the API Type described in SMS Sending API or Batch SMS Sending API .	SMS sending: <code>/sms/batchSendSms/v1</code> Batch SMS sending: <code>/sms/batchSendDiffSms/v1</code>

Sample API request addresses are as follows:

- Sending SMSs
`https://smsapi.ap-southeast-1.myhuaweicloud.com:443/sms/batchSendSms/v1`
- Sending SMSs in batches
`https://smsapi.ap-southeast-1.myhuaweicloud.com:443/sms/batchSendDiffSms/v1`

Demos

Download the following demos to quickly develop applications:

- [Java](#)
- [PHP](#)
- [Python](#)
- [C#](#)
- [Node.js](#)
- [Go](#)

3.2.3 SMS Sending API

Function

This API is used to send SMSs with the same content to one or more mobile numbers.

Prerequisites

- You have [created an SMS application](#) and obtained **Application Key**, **Application Secret**, **Application Access Address**, and **Channel No.** (except the channel number of Chinese mainland SMSs).
- (Mandatory only for Chinese mainland SMSs) You have [applied for an SMS signature](#) and obtained a channel number.
- You have [applied for an SMS template](#) and obtained the template ID.

Notes

- When an SMS is sent to a group of recipients, if the numbers in the **to** parameter contain characters other than digits and plus signs (+), the SMS cannot be sent to any of the numbers. If the **to** parameter contains only numbers and plus signs (+) but some of the numbers are invalid, status codes will identify the numbers to which the SMS fails to be sent and other valid numbers will not be affected. Numbers must be separated by commas (,). Each number contains a maximum of 21 characters. A maximum of 500

numbers are supported. If there are more than 500 numbers, the SMS fails to be sent to any of the numbers.

- A long SMS may be split into multiple short messages with a fixed length. For details about how an SMS is split, see [SMS Sending Rules](#).
- When X-WSSE authentication is used, the difference between the time when a random number is generated and the local time when the request is sent cannot exceed 24 hours. Otherwise, the authentication will fail.
- Parameters in the request body must be converted using urlencode.
- When AK/SK authentication is used, the difference between the time when a random number is generated and the local time when the request is sent cannot exceed 15 minutes. Otherwise, the authentication will fail.

Type

Table 3-85 API type

Method	POST
URI	/sms/batchSendSms/v1
Communications Protocol	HTTPS/HTTP

Request Parameters

Table 3-86 Request header parameters

Parameter	Mandatory	Type	Default Value	Description
Content-Type	Yes	String	None	The fixed value is application/x-www-form-urlencoded .

Parameter	Mandatory	Type	Default Value	Description
Authorization	Yes	String	None	- If AK/SK authentication is used, the value is SDK-HMAC-SHA256 Access="Value of app_key", SignedHeaders="Headers used for signature (lowercase)", Signature="Value calculated using the signature algorithm". For details, see Adding the Signature to the Request Header. - If X-WSSE authentication is used, the value is WSSE realm="SDP", profile="UsernameToken", type="Appkey".
X-WSSE	No (mandatory for X-WSSE authentication)	String	None	The value is UsernameToken Username="Value of app_key", PasswordDigest="Value of PasswordDigest", Nonce="Random string", Created="Time when the random string is generated". PasswordDigest: The value is generated based on Base64 (SHA256 (Nonce + Created + Password)). The string consisting of Nonce, Created, and Password is SHA256 encrypted and does not contain plus signs (+) or spaces. Password indicates the value of application secret. Nonce: When a platform user sends a request, a 1–128 character string with letters and digits is generated, for example, 66C92B11FF8A425FB8D4CCFE0ED9ED1F. Created: indicates the time when the random string is generated. Standard UTC is used, for example, 2018-02-12T15:30:20Z. The time formats vary by programming language. For details, see Table 3-87.

Parameter	Mandatory	Type	Default Value	Description
X-Sdk-Date	No (mandatory for AK/SK authentication)	String	None	Format: yyyyMMdd'T'HHmmss'Z'. The difference between the value and the local time when the request is sent cannot exceed 15 minutes. Otherwise, the authentication will fail.
Host	No	String	None	Destination address of API calling for AK/SK authentication, for example, smsapi.cn-north-4.myhuaweicloud.com:443 .

Table 3-87 Time formats in different programming languages

Programming Language	Time Format
Java	yyyy-MM-dd'T'HH:mm:ss'Z'
PHP	Y-m-d\TH:i:s\Z
Python	%Y-%m-%dT%H:%M:%SZ
C#	yyyy-MM-ddTHH:mm:ssZ
Node.js	toISOString().replace(/.[0-9]+\Z/, 'Z') Note: In Node.js, delete ms from the time format converted by using toISOString() .
Go	2006-01-02T15:04:05Z

Table 3-88 Request body parameters

Parameter	Mandatory	Type	Default Value	Description
from	Yes	String (1 to 21 characters)	None	Number from which an SMS is sent. - For international SMSs, set this parameter to the channel number allocated when the SMS application is created, for example, isms100000001. - For Chinese mainland SMSs, set this parameter to the channel number allocated by the platform to the SMS signature. The channel number is obtained when you apply for the SMS signature. An example channel number is csms100000001. The signature type corresponding to the channel number must be the same as the template type corresponding to the template ID.
to	Yes	String (1 to 21,999 characters)	None	SMS recipient number. The standard format is +{Country code}{Area code}{Terminal number}. - If an SMS is sent to recipients in countries or regions outside the Chinese mainland, all recipient numbers must be in the standard format, for example, +2412000000 (a Gabon number). - If an SMS is sent to recipients in the Chinese mainland and +{Country code} does not exist, the default country code +86 is used; if the recipient number is a mobile number, {Area code} is optional, for example, +8613112345678. Separate multiple recipient numbers with commas (,). Each number contains a maximum of 21 characters, and a maximum of 500 numbers are supported.

Parameter	Mandatory	Type	Default Value	Description
templateId	Yes	String (1 to 32 characters)	None	Unique SMS template ID. Obtain the template ID when applying for an SMS template. templateId must be used together with the templateParas parameter. The signature type corresponding to the Chinese mainland SMS channel number must be the same as the template type corresponding to the template ID.
templateParas	No	String	None	Optional when a non-variable template is used. List of SMS template variables, used to configure the variables specified in templateId. This parameter is in the JSONArray format. For details, see Template and Variable Specifications. The number and the length of variables must be consistent with those defined in the template specified by the templateId parameter. For example, if the template specified by templateId contains two variables with lengths of 5 and 6, the variable list must contain two corresponding variables with lengths not exceeding 5 and 6, respectively. If the template content is "You have \$ {NUM_5} parcels delivered to \${TXT_6}, this parameter can be set to ['3','Gate of People's Park']'.

Parameter	Mandatory	Type	Default Value	Description
statusCallback	No	String (1 to 1,024 characters)	None	Callback address of the user for receiving the SMS status report, for example http://my.com/receiveSMSReport. - If this parameter is specified, the SMS status report is sent to the user using the Status Report Receiving API. - If this parameter is not specified, the Message & SMS platform does not push the SMS status report returned by the carrier SMS center to the user. The SMS status report is saved in the platform for 1 hour and is automatically deleted when it times out. - You are advised to set the callback address to the domain name.
extend	No	String (1 to 128 characters)	None	Extended parameter returned in the status report. Spaces and braces {} are not allowed.
signature	No	String (0 to 32 characters)	None	(For Chinese mainland SMSs only) SMS signature name, which must be approved and consistent with the template type. This parameter is valid and must be specified only when a general template is specified. It specifies the signature before the SMS content in the general template.

Response Parameters

Table 3-89 Parameters in a response

Parameter	Mandatory	Type	Default Value	Description
code	Yes	String (1 to 7 characters)	None	Result code returned after the request is sent.

Parameter	Mandatory	Type	Default Value	Description
description	Yes	String (1 to 512 characters)	None	Description of the result code.
result	No	SmsID [1-1000]	None	SMS ID list. When multiple recipient numbers are required, the platform returns an SMS ID for each recipient number. This parameter is not carried when a response exception occurs.

Table 3-90 Definition of SmsID

Parameter	Mandatory	Type	Default Value	Description
smsMsgId	Yes	String (1 to 50 characters)	None	Unique SMS ID.
from	Yes	String (1 to 21 characters)	None	Number from which an SMS is sent.
originTo	Yes	String (1 to 21 characters)	None	Number to which an SMS is sent.

Parameter	Mandatory	Type	Default Value	Description
status	Yes	String (1 to 7 characters)	None	SMS status code. The following describes some SMS status codes. For details about the handling suggestions, see API Error Codes. ● 000000: Request succeeded. ● E200015: Too many SMSs are waiting to be sent. ● E200028: Failed to verify the template. ● E200029: Failed to verify the template type. ● E200030: The template is not activated. ● E200031: Failed to verify the protocol. ● E200033: The template type is incorrect. ● E200041: The recipient numbers of the same SMS are duplicate.
createTime	Yes	String (1 to 20 characters)	None	Time when the SMS resource was created, that is, the UTC time when the Message & SMS platform received an SMS request from a user. Format: yyyy-MM-dd'T'HH:mm:ss'Z'
countryId	No	String (1 to 3 characters)	None	Country code of the SMS recipient number.
total	No	Integer	None	Number of split SMSs.

Result Codes

Table 3-91 Result codes in responses

Response Code	Result Code	Message	Description	Solution
200	000000	Success.	The request is sent successfully.	No action is required.
400	E000000	System error.	The system is abnormal.	Check whether the templateParas parameter is set correctly according to the code example. If the problem persists, contact the administrator.
	E000001	Authorization not contained in the HTTP header.	Authorization is not contained in the HTTP header.	Check whether the HTTP message header contains the Authorization field.
	E000002	realm not contained in Authorization.	realm is not contained in Authorization .	Check whether the Authorization field contains the realm attribute.
	E000003	profile not contained in Authorization.	profile is not contained in Authorization .	Check whether the Authorization field contains the profile attribute.
	E000004	The value of realm in Authorization must be SDP.	The value of realm in Authorization must be SDP .	Check whether the value of realm in the Authorization field is SDP .
	E000005	The value of profile in Authorization must be UsernameToken.	The value of profile in Authorization must be UsernameToken .	Check whether the value of profile in the Authorization field is UsernameToken .
	E000006	The value of type in Authorization must be app_key.	The value of type in Authorization must be Appkey .	Check whether the value of type in the Authorization field is Appkey .

Response Code	Result Code	Message	Description	Solution
	E000007	type not contained in Authorization.	type is not contained in Authorization .	Check whether the Authorization field contains the type attribute.
	E000008	WSSE not contained in Authorization.	WSSE is not contained in Authorization .	Check whether the Authorization field contains WSSE .
	E000020	X-WSSE not contained in the HTTP header.	X-WSSE is not contained in the HTTP header.	Check whether the HTTP message header contains the X-WSSE field.
	E000021	UserName not contained in X-WSSE.	UserName is not contained in X-WSSE .	Check whether the X-WSSE field contains the UserName attribute.
	E000022	Nonce not contained in X-WSSE.	Nonce is not contained in X-WSSE .	Check whether the X-WSSE field contains the Nonce attribute.
	E000023	Created not contained in X-WSSE.	Created is not contained in X-WSSE .	Check whether the X-WSSE field contains the Created attribute.
	E000024	PasswordDigest not contained in X-WSSE.	PasswordDigest is not contained in X-WSSE .	Check whether the X-WSSE field contains the PasswordDigest attribute.
	E000025	The format of Created is incorrect.	The format of Created is incorrect.	Check whether the format of the Created attribute in the X-WSSE field is correct.
	E000026	UsernameToken not contained in X-WSSE.	UsernameToken is not contained in X-WSSE .	Check whether the X-WSSE field contains the UsernameToken attribute.
	E000027	Invalid request.	The request is invalid.	Check whether the parameters in the request are valid based on the parameter description and requirements in the API reference.

Response Code	Result Code	Message	Description	Solution
	E000 040	The value of ContentType must be application/x-www-form-urlencoded.	The value of ContentType must be application/x-www-form-urlencoded .	Check whether the value of the ContentType header field is application/x-www-form-urlencoded .
	E000 041	X-Sdk-Date header is empty.	X-Sdk-Date is empty.	For special AK/SK authentication, check the value of X-Sdk-Date in the HTTP message header.
	E000 042	The format of X-Sdk-Date header is invalid.	Incorrect X-Sdk-Date format.	For special AK/SK authentication, check the format of X-Sdk-Date in the HTTP message header. The format is yyyyMMdd'T'HHmmss'Z'.
	E000 043	The format of Authorization header is incorrect.	Incorrect Authorization format.	For special AK/SK authentication, check the format of Authorization in the HTTP message header.
	E000 044	X-Sdk-Date is expired.	X-Sdk-Date expires.	For special AK/SK authentication, check the time of X-Sdk-Date in the HTTP header. The difference between the time and the local time when the request is sent cannot exceed 15 minutes. Otherwise, the authentication fails.
	E000 045	Authorization verify failed.	Authorization verification failed.	For special AK/SK authentication, check the Signature field in Authorization of the HTTP message header.
	E000 503	The parameter format is incorrect.	The parameter format is incorrect.	Check whether the parameter format is correct.

Response Code	Result Code	Message	Description	Solution
	E000 510	The SMS fails to be sent. For details, see Status .	Failed to send the SMS. For details, see the description of the status parameter.	Check the value of status in the response parameter to determine the cause of the failure, modify the parameter value, and resend the SMS.
401	E000 101	Authentication failed.	Authentication failed.	Check whether the values of Authorization and X-WSSE are correct.
	E000 102	Invalid app_key.	app_key is invalid.	Check whether app_key in the request is correct. If app_key is correct, check whether the application access address (obtained from the Application Management page on the console) is correct.
	E000 103	The status of the app_key is unavailable.	app_key is unavailable.	Contact the administrator to check whether the app_key status is normal.
	E000 104	Invalid app_secret.	app_secret is invalid.	Check whether app_secret in the request is correct.
	E000 105	Invalid digest.	PasswordDigest is invalid.	Check whether PasswordDigest in the request is correct.
	E000 106	The app_key is not allowed to invoke this API.	The app_key does not have the permission to call this API.	Contact the administrator to check whether the application corresponding to the app_key supports SMS capability exposure.
	E000 109	The user status is deactivated.	The user is deactivated.	Contact the administrator to activate the user.
	E000 110	Time out limit.	The time exceeds the limit.	When X-WSSE authentication is used, make sure that there is not too much difference between the time when the random string is generated and the local time when the request is sent. For details, contact the administrator.

Response Code	Result Code	Message	Description	Solution
	E000 111	Incorrect username or password.	Incorrect username or password.	The user information corresponding to app_key cannot be found. Contact the administrator.
	E000 112	The subscriber status is frozen.	The user is frozen.	If the account is frozen due to arrears, top up the account by referring to Topping Up an Account (Prepaid Direct Customers). Then, the account is automatically unfrozen. If the account is frozen due to violation, modify the service and contact the operations manager to apply for account unfreezing.
403	E000 620	The app client ip is not in ip white list.	The peer application IP address is not in the whitelist.	- It takes about 10 to 15 minutes for the IP address whitelist configuration to take effect. This error may be reported if the configuration does not take effect in time. - The IP address whitelist configuration is incorrect. On the console, choose Application Management, click Modify, and check and modify the configured IP address whitelist, or add a correct IP address whitelist (when it is configured by the platform administrator).
	E000 623	Number of SMSs sent by the SP reached the limit.	Number of SMSs sent by the SP reached the limit.	Contact the operations manager to increase the maximum number of SMSs sent by the SP.

Response Code	Result Code	Message	Description	Solution
	E000630	Number of SMSs sent by the SP reached the country/region limit.	Number of SMSs sent by the SP reached the country/region limit.	You can set a limit for the number of accumulated SMSs sent to a country or region. When this limit is reached, new SMSs will fail to be sent. You can modify or delete the limit on the general setting page by referring to Traffic Threshold. Contact the operations manager to increase the maximum number of SMSs sent by the SP.

API Example

- Example request 1 (X-WSSE authentication)

```
POST /sms/batchSendSms/v1 HTTP/1.1
x-real-ip: 10.10.10.168
x-real-port: 10443
host: ompap.inner
content-length: 184
date: Fri, 13 Apr 2018 06:31:39 GMT
authorization: WSSE realm="SDP",profile="UsernameToken",type="Appkey"
x-wsse: UsernameToken
Username="ZRBz4bAXoFgEH7o4Ew308eXc1RA",PasswordDigest="NDA1MWIwNjI2ZTkYNWFlM2FhMTE5NDE1YTk5NjU1YWE4NjNlZTY1MmRhYzkyZGVhZGZjdjMjkzZWQ4ZjAwNA==",Nonce="ac1c911c4792492687f8f6b2264a491e",Created="2018-05-26T00:35:30Z"
accept: application/json
content-type: application/x-www-form-urlencoded

from=1069031221280012&to=
%2B8615512345678&templateId=abcdefghijklmghijklmghijklmghijklmgh&templateParas=%5B
%22520520%22%5D&statusCallback=http%3A%2F
%2F205%2E145%2E111%2E168%3A9330%2Freport
```
- Example request 2 (AK/SK authentication)

```
POST /sms/batchSendSms/v1 HTTP/1.1
Host: smsapi.cn-north-4.myhuaweicloud.com:443
content-length: 184
X-Sdk-Date: 20230519T005038Z
Authorization: SDK-HMAC-SHA256 Access=uxOF5yvM0H3C0t5G0xc272g7hA2I,
SignedHeaders=content-type;host;x-sdk-date,
Signature=082f05bcd561e291a7469939980c022f721a581967cc30eb3725c7aea4bd634d
Content-Type: application/x-www-form-urlencoded

from=1069*****0012&to=
%2B86155****5678&templateId=abcdefghijklmghijklmghijklmghijklmgh&templateParas=%5B
%22520520%22%5D&statusCallback=http%3A%2F
%2F205%2E145%2E111%2E168%3A9330%2Freport
```
- Response Example

```
HTTP/1.1 200 OK
Date: Fri, 13 Apr 2018 06:29:08 GMT
```

```
Server: WebServer
Content-Type: application/json;charset=UTF-8
Content-Length: 247

{"result":
[{"originTo":"+8615512345678","createTime":"2018-05-25T16:34:34Z","from":"1069031221280012","s
msMsgId":"d6e3cdd0-522b-4692-8304-
a07553cdf591_8539659","status":"000000","countryId":"CN","total":2}], "code":"000000","description":"
Success"}
```

Demos

Download the following demos to quickly develop applications:

- [Java](#)
- [PHP](#)
- [Python](#)
- [C#](#)
- [Node.js](#)
- [Go](#)

3.2.4 Batch SMS Sending API

Function

This API is used to send SMSs with different content to one or more mobile numbers.

Prerequisites

- You have [created an SMS application](#) and obtained **Application Key**, **Application Secret**, **Application Access Address**, and **Channel No.** (except the channel number of Chinese mainland SMSs).
- (Mandatory only for Chinese mainland SMSs) You have [applied for an SMS signature](#) and obtained a channel number.
- You have [applied for an SMS template](#) and obtained the template ID.

Notes

- An SMS can be sent to a maximum of 500 numbers separated by commas (,). Each number contains a maximum of 21 characters. If there are more than 500 numbers, the SMS fails to be sent to any of the numbers.
- When X-WSSE authentication is used, the difference between the time when a random number is generated and the local time when the request is sent cannot exceed 24 hours. Otherwise, the authentication will fail.
- When AK/SK authentication is used, the difference between the time when a random number is generated and the local time when the request is sent cannot exceed 15 minutes. Otherwise, the authentication will fail.

Type

Table 3-92 API type

Method	POST
URI	/sms/batchSendDiffSms/v1
Communications Protocol	HTTPS/HTTP

Request Parameters

Table 3-93 Request header parameters

Parameter	Mandatory	Type	Default Value	Description
Content-Type	Yes	String	None	The fixed value is application/json .
Authorization	Yes	String	None	- If AK/SK authentication is used, the value is SDK-HMAC-SHA256 Access="Value of app_key", SignedHeaders="Headers used for signature (lowercase)", Signature="Value calculated using the signature algorithm". For details, see Adding the Signature to the Request Header. - If X-WSSE authentication is used, the value is WSSE realm="SDP", profile="UsernameToken", type="Appkey".

Parameter	Mandatory	Type	Default Value	Description
X-WSSE	No (mandatory for X-WSSE authentication)	String	None	The value is UsernameToken Username="Value of app_key", PasswordDigest="Value of PasswordDigest", Nonce="Random string", Created="Time when the random string is generated". • PasswordDigest: The value is generated based on Base64 (SHA256 (Nonce + Created + Password)). The string consisting of Nonce, Created, and Password is SHA256 encrypted and does not contain plus signs (+) or spaces. Password indicates the value of application secret. • Nonce: When a platform user sends a request, a 1–128 character string with letters and digits is generated, for example, 66C92B11FF8A425FB8D4CCFE0ED9ED1F. • Created: indicates the time when the random string is generated. Standard UTC is used, for example, 2018-02-12T15:30:20Z. The time formats vary by programming language. For details, see Table 3-94.
X-Sdk-Date	No (mandatory for AK/SK authentication)	String	None	Format: yyyyMMdd'T'HHmmss'Z'.
Host	No	String	None	Destination address of API calling for AK/SK authentication, for example, smsapi.cn-north-4.myhuaweicloud.com:443 .

Table 3-94 Time formats in different programming languages

Programming Language	Time Format
Java	yyyy-MM-dd'T'HH:mm:ss'Z'
PHP	Y-m-d\TH:i:s\Z
Python	%Y-%m-%dT%H:%M:%SZ
C#	yyyy-MM-ddTHH:mm:ssZ
Node.js	toISOString().replace(/.[0-9]+\Z/, 'Z') Note: In Node.js, delete ms from the time format converted by using toISOString() .
Go	2006-01-02T15:04:05Z

Table 3-95 Request body parameters

Parameter	Mandatory	Type	Default Value	Description
from	Yes	String (1 to 21 characters)	None	Number from which an SMS is sent. - For international SMSs, set this parameter to the channel number allocated when the SMS application is created, for example, isms100000001. - For Chinese mainland SMSs, set this parameter to the channel number allocated by the platform to the SMS signature. The channel number is obtained when you apply for the SMS signature. An example channel number is csms100000001. The signature type corresponding to the channel number must be the same as the template type corresponding to the template ID.

Parameter	Mandatory	Type	Default Value	Description
statusCallback	No	String (1 to 1,024 characters)	None	Callback address of the user for receiving the SMS status report, for example http://my.com/receiveSMSReport. - If this parameter is specified, the SMS status report is sent to the user using the Status Report Receiving API. - If this parameter is not specified, the Message & SMS platform does not push the SMS status report returned by the carrier SMS center to the user. The SMS status report is saved in the platform for 1 hour and is automatically deleted when it times out. - You are advised to set the callback address to the domain name.
smsContent	Yes	SmsContent[]	None	Content of an SMS notification. Its size cannot exceed 64 KB.
extend	No	String (1 to 128 characters)	None	Extended parameter returned in the status report. Spaces and braces {} are not allowed.

Table 3-96 Definition of SmsContent

Parameter	Mandatory	Type	Default Value	Description
to	Yes	String[] (1 to 21,999 characters)	None	SMS recipient numbers for group sending. The standard format is +{Country code}{Area code}{Terminal number}. - If an SMS is sent to recipients in countries or regions outside the Chinese mainland, all recipient numbers must be in the standard format, for example, +2412000000 (a Gabon number). - If an SMS is sent to recipients in the Chinese mainland and +{Country code} does not exist, the default country code +86 is used; if the recipient number is a mobile number, {Area code} is optional, for example, +8613112345678. Separate multiple recipient numbers with commas (.). Each number contains a maximum of 21 characters, and a maximum of 500 numbers are supported.
templateId	Yes	String (1 to 32 characters)	None	Unique SMS template ID. Obtain the template ID when applying for an SMS template. templateId must be used together with the templateParas parameter. The signature type corresponding to the Chinese mainland SMS channel number must be the same as the template type corresponding to the template ID.

Parameter	Mandatory	Type	Default Value	Description
templateParas	No	String	None	Optional when a non-variable template is used. List of SMS template variables, used to configure the variables specified in templateId. This parameter is in the JSONArray format. For details, see Template and Variable Specifications. The number and the length of variables must be consistent with those defined in the template specified by the templateId parameter. For example, if the template specified by templateId contains two variables with lengths of 5 and 6, the variable list must contain two corresponding variables with lengths not exceeding 5 and 6, respectively. If the template content is "You have \${NUM_5} parcels delivered to \${TXT_6}, this parameter can be set to ['3','Gate of People's Park']".
signature	No	String (0 to 32 characters)	None	(For Chinese mainland SMSs only) SMS signature name, which must be approved and consistent with the template type. This parameter is valid and must be specified only when a general template is specified. It specifies the signature before the SMS content in the general template.

Response Parameters

Table 3-97 Parameters in a response

Parameter	Mandatory	Type	Default Value	Description
code	Yes	String (1 to 7 characters)	None	Result code returned after the request is sent.

Parameter	Mandatory	Type	Default Value	Description
description	Yes	String (1 to 512 characters)	None	Description of the result code.
result	No	SmsID[]	None	SMS body. A response does not contain this parameter when an error occurs.

Table 3-98 Definition of SmsID

Parameter	Mandatory	Type	Default Value	Description
smsMsgId	Yes	String (1 to 50 characters)	None	Unique SMS ID.
from	Yes	String (1 to 21 characters)	None	Number from which an SMS is sent.
originTo	Yes	String (1 to 21 characters)	None	Number to which an SMS is sent.

Parameter	Mandatory	Type	Default Value	Description
status	Yes	String (1 to 7 characters)	None	SMS status code. The following describes some SMS status codes. For details about the handling suggestions, see API Error Codes. • 000000: Request succeeded. • E200015: Too many SMSs are waiting to be sent. • E200028: Failed to verify the template. • E200029: Failed to verify the template type. • E200030: The template is not activated. • E200031: Failed to verify the protocol. • E200033: The template type is incorrect. • E200041: The recipient numbers of the same SMS are duplicate.
createTime	Yes	String (1 to 20 characters)	None	Time when the SMS resource was created, that is, the UTC time when the Message & SMS platform received an SMS request from a user. Format: yyyy-MM-dd'T'HH:mm:ss'Z'
countryId	No	String (1 to 3 characters)	None	Country code of the SMS recipient number.
total	No	Integer	None	Number of split SMSs.

Result Codes

Table 3-99 Result codes in responses

Response Code	Result Code	Message	Description	Solution
200	000000	Success.	The request is sent successfully.	No action is required.
400	E000000	System error.	The system is abnormal.	Check whether the templateParas parameter is set correctly according to the code example. If the problem persists, contact the administrator.
	E000001	Authorization not contained in the HTTP header.	Authorization is not contained in the HTTP header.	Check whether the HTTP message header contains the Authorization field.
	E000002	realm not contained in Authorization.	realm is not contained in Authorization .	Check whether the Authorization field contains the realm attribute.
	E000003	profile not contained in Authorization.	profile is not contained in Authorization .	Check whether the Authorization field contains the profile attribute.
	E000004	The value of realm in Authorization must be SDP.	The value of realm in Authorization must be SDP .	Check whether the value of realm in the Authorization field is SDP .
	E000005	The value of profile in Authorization must be UsernameToken.	The value of profile in Authorization must be UsernameToken .	Check whether the value of profile in the Authorization field is UsernameToken .
	E000006	The value of type in Authorization must be app_key.	The value of type in Authorization must be Appkey .	Check whether the value of type in the Authorization field is Appkey .

Response Code	Result Code	Message	Description	Solution
	E000007	type not contained in Authorization.	type is not contained in Authorization .	Check whether the Authorization field contains the type attribute.
	E000008	WSSE not contained in Authorization.	WSSE is not contained in Authorization .	Check whether the Authorization field contains WSSE .
	E000020	X-WSSE not contained in the HTTP header.	X-WSSE is not contained in the HTTP header.	Check whether the HTTP message header contains the X-WSSE field.
	E000021	UserName not contained in X-WSSE.	UserName is not contained in X-WSSE .	Check whether the X-WSSE field contains the UserName attribute.
	E000022	Nonce not contained in X-WSSE.	Nonce is not contained in X-WSSE .	Check whether the X-WSSE field contains the Nonce attribute.
	E000023	Created not contained in X-WSSE.	Created is not contained in X-WSSE .	Check whether the X-WSSE field contains the Created attribute.
	E000024	PasswordDigest not contained in X-WSSE.	PasswordDigest is not contained in X-WSSE .	Check whether the X-WSSE field contains the PasswordDigest attribute.
	E000025	The format of Created is incorrect.	The format of Created is incorrect.	Check whether the format of the Created attribute in the X-WSSE field is correct.
	E000026	UsernameToken not contained in X-WSSE.	UsernameToken is not contained in X-WSSE .	Check whether the X-WSSE field contains the UsernameToken attribute.
	E000027	Invalid request.	The request is invalid.	Check whether the parameters in the request are valid based on the parameter description and requirements in the API reference.
	E000041	X-Sdk-Date header is empty.	X-Sdk-Date is empty.	For special AK/SK authentication, check the value of X-Sdk-Date in the HTTP message header.

Response Code	Result Code	Message	Description	Solution
	E000 042	The format of X-Sdk-Date header is invalid.	Incorrect X-Sdk-Date format.	For special AK/SK authentication, check the format of X-Sdk-Date in the HTTP message header. The format is yyyyMMdd'T'HHmmss'Z'.
	E000 043	The format of Authorization header is incorrect.	Incorrect Authorization format.	For special AK/SK authentication, check the format of Authorization in the HTTP message header.
	E000 044	X-Sdk-Date is expired.	X-Sdk-Date expires.	For special AK/SK authentication, check the time of X-Sdk-Date in the HTTP header. The difference between the time and the local time when the request is sent cannot exceed 15 minutes. Otherwise, the authentication fails.
	E000 045	Authorization verify failed.	Authorization verification failed.	For special AK/SK authentication, check the Signature field in Authorization of the HTTP message header.
	E000 503	The parameter format is incorrect.	The parameter format is incorrect.	Check whether the parameter format is correct.
	E000 510	The SMS fails to be sent. For details, see Status .	Failed to send the SMS. For details, see the description of the status parameter.	Check the value of status in the response parameter to determine the cause of the failure, modify the parameter value, and resend the SMS.
401	E000 101	Authentication failed.	Authentication failed.	Check whether the values of Authorization and X-WSSE are correct.

Response Code	Result Code	Message	Description	Solution
	E000102	Invalid app_key.	app_key is invalid.	Check whether app_key in the request is correct. If app_key is correct, check whether the application access address (obtained from the Application Management page on the console) is correct.
	E000103	The status of the app_key is unavailable.	app_key is unavailable.	Contact the administrator to check whether the app_key status is normal.
	E000104	Invalid app_secret.	app_secret is invalid.	Check whether app_secret in the request is correct.
	E000105	Invalid digest.	PasswordDigest is invalid.	Check whether PasswordDigest in the request is correct.
	E000106	The app_key is not allowed to invoke this API.	The app_key does not have the permission to call this API.	Contact the administrator to check whether the application corresponding to the app_key supports SMS capability exposure.
	E000109	The user status is deactivated.	The user is deactivated.	Contact the administrator to activate the user.
	E000110	Time out limit.	The time exceeds the limit.	When X-WSSE authentication is used, make sure that there is not too much difference between the time when the random string is generated and the local time when the request is sent. For details, contact the administrator.
	E000111	Incorrect username or password.	Incorrect username or password.	The user information corresponding to app_key cannot be found. Contact the administrator.

Response Code	Result Code	Message	Description	Solution
	E000 112	The subscriber status is frozen.	The user is frozen.	If the account is frozen due to arrears, top up the account by referring to Topping Up an Account (Prepaid Direct Customers). Then, the account is automatically unfrozen. If the account is frozen due to violation, modify the service and contact the operations manager to apply for account unfreezing.
403	E000 620	The app client ip is not in ip white list.	The peer application IP address is not in the whitelist.	- It takes about 10 to 15 minutes for the IP address whitelist configuration to take effect. This error may be reported if the configuration does not take effect in time. - The IP address whitelist configuration is incorrect. On the console, choose Application Management, click Modify, and check and modify the configured IP address whitelist, or add a correct IP address whitelist (when it is configured by the platform administrator).
	E000 623	Number of SMSs sent by the SP reached the limit.	Number of SMSs sent by the SP reached the limit.	Contact the operations manager to increase the maximum number of SMSs sent by the SP.

Response Code	Result Code	Message	Description	Solution
	E000630	Number of SMSs sent by the SP reached the country/region limit.	Number of SMSs sent by the SP reached the country/region limit.	You can set a limit for the number of accumulated SMSs sent to a country or region. When this limit is reached, new SMSs will fail to be sent. You can modify or delete the limit on the general setting page by referring to Traffic Threshold . Contact the operations manager to increase the maximum number of SMSs sent by the SP.

API Example

- Example request 1 (X-WSSE authentication)

```
POST /sms/batchSendDiffSms/v1 HTTP/1.1
x-real-ip: 10.10.10.168
x-real-port: 10443
host: ompap.inner
content-length: 315
date: Fri, 13 Apr 2018 06:48:35 GMT
authorization: WSSE realm="SDP",profile="UsernameToken",type="Appkey"
x-wsse: UsernameToken
Username="ZRBRz4bAXoFgEH7o4Ew308eXc1RA",PasswordDigest="NDA1MWIwNjI2ZTkYNWFlM2FhMTE5NDE1YTk5NjU1YWE4NjNlZTY1MmRhYzZkxZGVhNzcZjdjMjkzZWQ4ZjAwNA==",Nonce="ac1c911c4792492687f8f6b2264a491e",Created="2018-05-26T00:35:30Z"
accept: application/json
content-type: application/json

{"from":"1069031221280012","smsContent":[{"to":
["+8615512345678","+8615512345679"],"templateId":"abcdefghabcedfghabcedfghabcedfgh","templat
eParas":["062569"]}],{"to":
["+8615512345680"],"templateId":"hgfedcbahgfedcbahgfedcbahgfedcba","templateParas":
["605623"]}],{"statusCallback":"http://205.145.111.168:9330/report"}
```

- Example request 2 (AK/SK authentication)

```
POST /sms/batchSendDiffSms/v1 HTTP/1.1
Host: smsapi.cn-north-4.myhuaweicloud.com:443
X-Sdk-Date: 20230519T005038Z
Authorization: SDK-HMAC-SHA256 Access=uxOF5yvM0H3C0t5G0xc272g7hA2I,
SignedHeaders=content-type;host;x-sdk-date,
Signature=082f05bcd561e291a7469939980c022f721a581967cc30eb3725c7a7a4bd634d
content-length: 315
Content-Type: application/json

{"from":"1069*****0012","smsContent":[{"to":
["+86155****5678","+86155****5679"],"templateId":"abcdefghabcedfghabcedfghabcedfgh","templatePa
ras":["062569"]}],{"to":
["+86155****45680"],"templateId":"hgfedcbahgfedcbahgfedcbahgfedcba","templateParas":
["605623"]}],{"statusCallback":"http://205.145.111.168:9330/report"}
```

- Response Example

```
HTTP/1.1 200 OK
Date: Fri, 13 Apr 2018 06:46:04 GMT
Server: WebServer
Content-Type: application/json;charset=UTF-8
Content-Length: 622

{"result":
[{"originTo":"+8615512345678","createTime":"2018-05-25T16:34:34Z","from":"1069031221280012","s
msMsgId":"5963c5be-f189-4c0c-ab2e-7cab0c42c798_52","status":"000000","countryId":"CN","total":2},
{"originTo":"+8615512345679","createTime":"2018-05-25T16:34:34Z","from":"1069031221280012","sm
sMsgId":"5963c5be-f189-4c0c-ab2e-7cab0c42c798_53","status":"000000","countryId":"CN","total":2},
{"originTo":"+8615512345680","createTime":"2018-05-25T16:34:34Z","from":"1069031221280012","sm
sMsgId":"5963c5be-f189-4c0c-
ab2e-7cab0c42c798_54","status":"000000","countryId":"CN","total":2}], "code":"000000","description":"
Success"}
```

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3.2.5 Status Report Receiving API

Function

This API is used to receive SMS status reports from the Message & SMS platform. You can set the SMS status report callback address by specifying the **statusCallback** field in the SMS Sending API and Batch SMS Sending API.

NOTE

- If the **statusCallback** field is set, the system uses its value as the SMS status report callback address.
- If the **statusCallback** field is not set, a user cannot receive status reports sent by the Message & SMS platform.

Prerequisites

The status report pushed by the platform is not authenticated.

Notes

After sending SMSs successfully, the platform receives status reports and pushes the reports to users within 72 hours.

Type

Table 3-100 API type

Method	POST
URI	Callback address specified in the SMS Sending API and Batch SMS Sending API
Communications Protocol	HTTPS/HTTP

NOTE

When the callback API uses the HTTPS protocol, the server must support TLS 1.2, and one or more of the following cipher suites must be supported:

TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256,
TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384,
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256, and
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384.

Request Parameters

Table 3-101 Request header parameters

Parameter	Mandatory	Type	Default Value	Description
Content-Type	Yes	String	None	The fixed value is application/x-www-form-urlencoded .
X-Sdk-Date	No	String	None	Signature timestamp, which is carried after AK/SK authentication is enabled. Format: yyyyMMdd'T'HHmmss'Z'.

Parameter	Mandatory	Type	Default Value	Description
Authorization	No	String	None	Hash code used for message authentication, which is carried after AK/SK authentication is enabled. Format: SDK-HMAC-SHA256 Access= Value of app_key, SignedHeaders= Headers used for signature (lowercase), Signature= Value calculated using the signature algorithm. For details, see Adding the Signature to the Request Header. For details about AK/SK, see Authentication. For details about the authentication method, see AK/SK-based Pushing Authentication.

Table 3-102 Request body parameters

Parameter	Mandatory	Type	Default Value	Description
smsMsgId	Yes	String (1 to 50 characters)	None	Unique SMS identifier returned after an SMS is successfully sent.
total	No	String (1 to 2 characters)	None	Number of SMSs that are split from a long SMS. If the SMS is not split, set this parameter to 1.
sequence	No	String (1 to 2 characters)	None	Sequence number after a long SMS is split. This parameter is valid only when the value of total is greater than 1. If the SMS is not split, set this parameter to 1.
status	Yes	String (1 to 7 characters)	None	Enumerated values of an SMS status report. For details about the values, see Table 3-103. For details about how to rectify the faults, see SMS Status Error Codes.

Parameter	Mandatory	Type	Default Value	Description
source	No	String (enumeration)	None	Source of the SMS status report: • 1: The status report is generated by the Message & SMS platform. • 2: The status report is returned by the SMSC. • 3: status report generated by the Huawei platform.
updateTime	No	String (1 to 20 characters)	None	SMS resource update time, which is generally the time (UTC) when the Message & SMS platform receives the SMS status report. The value is in the format of yyyy-MM-dd'T'HH:mm:ss'Z'. The time is converted to %3a using urlencode. When the Message & SMS platform does not receive the SMS status report from the SMSC, the platform constructs a status report that does not contain the updateTime parameter.
orgCode	No	String (1 to 7 characters)	None	Status codes of southbound NEs are transparently transmitted. This parameter is contained only in status reports of international SMSs. When the status code is not returned, the parameter is not used.
extend	No	String (1 to 128 characters)	None	Extended field in the request sent by a user. If the SMS sent by a user does not carry the extend parameter, the status report does not contain the extend parameter.
to	No	String (1 to 21 characters)	None	Recipient number of the SMS corresponding to the status report. This parameter is carried only when the status report contains the extend parameter.

Table 3-103 Status options

Value	Description
DELIVRD	The user has received the SMS.
EXPIRED	The SMS timed out.

Value	Description
DELETED	The SMS has been deleted.
UNDELIV	The SMS fails to be delivered.
ACCEPTD	The SMS is accepted.
UNKNOWN	The SMS status is unknown.
REJECTD	The SMS has been rejected.
E200018	Failed to verify the Chinese mainland SMS sender channel.
E200019	Failed to match the Chinese mainland SMS sender channel.
E200020	Failed to verify the Chinese mainland SMS signature channel.
E200021	Failed to match the Chinese mainland SMS signature channel.
E200022	Failed to verify the Chinese mainland SMS recipient channel.
E200023	Failed to match the Chinese mainland SMS recipient channel.
E200024	International SMSs are not supported.
E200025	Failed to verify the international SMS recipient channel.
E200026	Failed to match the international SMS recipient channel.
E200027	Failed to match the gateway.
E200032	An SMS template is required.
E200034	The SMS retransmission times out.
E200035	Failed to replace the SMS protocol field.
E200036	The southbound rate control configuration is 0.
E200038	Long SMS receiving times out.
MILIMIT	Reached the maximum number of SMSs sent to a recipient number per minute.
LIMIT	
BEYONDN	Reached the maximum number of SMSs sent to a recipient number.
KEYWORD	The SMS is intercepted due to keywords.
BLACK	The number is blocked.

Value	Description
MBBLACK	
DJ:0255	The carrier intercepted the SMS because the content is not allowed.
1	The phone number is suspended or does not exist, or the phone is powered off.
24	
MK:xxxx	
MN:xxxx	
LT:0001	
MA:xxxx	The SMSC does not return a response.
MB:xxxx	The SMSC returns an error response.
MC:xxxx	No status report is received from the SMSC.
CA:xxxx	The SCP does not return a response.
CB:xxxx	The SCP returns an error response.
DA:xxxx	The DSMP does not return a response.
DB:xxxx	The DSMP returns an error response.
SA:xxxx	The SP does not return a response.
SB:xxxx	The SP returns an error response.
IA:xxxx	The ISMG does not return a response.
IB:xxxx	The ISMG returns an error response.
IC:xxxx	No status report is received from the ISMG.
SC:0001	The SMS is intercepted due to manual review.
SC:0002	The SMS is intercepted due to the manual review alarm.
SC:0003	The SMS is intercepted due to the blacklist.
SC:0004	The SMS is intercepted due to the redlist.
SC:0005	The SMS is intercepted due to the complaint blacklist.
SC:0006	The SMS is intercepted due to forbidden keywords.
SC:0007	The SMS is intercepted due to feature keywords.
SC:0008	The SMS is intercepted due to control keywords.
SC:0009	The SMS is intercepted due to lack of mandatory keywords.

Value	Description
SC:0010	The SMS is intercepted due to the excessively high sending frequency.
SC:0011	The SMS is intercepted due to period control.
SC:0012	Manual review times out.
SC:0013	The SMS is intercepted due to the signature blacklist.
SC:0014	Matching the review-free template fails.
SC:0015	The SMS matches the interception template.
SC:0016	The SMS is intercepted due to the unsubscription blacklist.
SC:0017	The SMS is intercepted due to the non-registration template.
SC:0018	The SMS is intercepted due to the non-registration signature.

Response Parameters

A user can send any response to the Message & SMS platform, where the response is not processed.

API Example

- Request example**
 POST /report HTTP/1.1
 Host: 205.145.111.168:9330
 Content-Type: application/x-www-form-urlencoded
 X-Sdk-Date: 20241212T070653Z
 Authorization: SDK-HMAC-SHA256 Access=exampleAk,SignedHeaders=connection;content-length;content-type;host;x-sdk-date,Signature=765a365f3851fd1c96011a82b893266fb7b3e79b3002526c43199c97e61bb88b
 Connection: close
 Pooltype: appoxy
 Ompsid: 7f540777fe4b40dfb3c21d10f48781e3
 TerminalIP: 205.141.112.18
 TrcModule: AP
 UserTrace: application
 TraceHandle: DMZ_818405

 sequence=1&total=1&orgCode=000&updateTime=2018-04-13T06%3A31%3A46Z&source=2&smsMsgId=b9d9b4fe-ad0e-4a2a-a2c7-445505b674ac_6&status=DELIVRD
- Response example**
 HTTP/1.1 200 OK
 Date: Fri, 13 Apr 2018 06:31:45 GMT
 Content-Type: application/JSON; charset=UTF-8
 Content-Length: 43

 {"returnCode":0,"returnCodeDesc":"Success"}

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3.2.6 Batch Status Reports Receiving API

Function

This API is used to receive SMS status reports from the Message & SMS platform in batches. You can set the callback address on the **Application Management** page of the console.

NOTE

- After sending SMSs successfully, the platform receives status reports and pushes the reports to users within 72 hours.
- Status reports are pushed after being aggregated. Therefore, there is a delay in receiving status reports.
- The platform can send up to 50 status reports at a time.

Prerequisites

- The status report pushed by the platform is not authenticated.
- If an IP address whitelist is configured for the user server, contact the operation manager to obtain the IP addresses used by the Message & SMS platform and add these IP addresses to the whitelist.
- A user has configured the address for receiving status reports in batches when creating an SMS application.
- When a user calls the SMS sending API, the **statusCallback** field is not carried.

NOTE

- If the **statusCallback** field is set, the system uses its value as the SMS status report callback address.
- If the **statusCallback** field is not set, the system uses the address configured in the application for receiving status reports in batches.
- If none of the preceding addresses is available, users cannot receive status reports sent by the Message & SMS platform.

Type

Table 3-104 API type

Method	POST
URI	Address for receiving status reports in batches, which is configured by a user in an application.
Communications Protocol	HTTPS/HTTP

NOTE

When the callback API uses the HTTPS protocol, the server must support TLS 1.2, and one or more of the following cipher suites must be supported:

TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256,
TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384,
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256, and
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384.

Request Parameters

Table 3-105 Request header parameters

Parameter	Mandatory	Type	Default Value	Description
Content-Type	Yes	String	None	The fixed value is application/json .
X-Sdk-Date	No	String	None	Signature timestamp, which is carried after AK/SK authentication is enabled. Format: yyyyMMdd'T'HHmmss'Z'.

Parameter	Mandatory	Type	Default Value	Description
Authorization	No	String	None	Hash code used for message authentication, which is carried after AK/SK authentication is enabled. Format: SDK-HMAC-SHA256 Access= Value of app_key, SignedHeaders = Headers used for signature (lowercase), Signature= Value calculated using the signature algorithm. For details, see Adding the Signature to the Request Header. For details about AK/SK, see Authentication. For details about the authentication method, see AK/SK-based Pushing Authentication.

Table 3-106 Request body parameters

Parameter	Mandatory	Type	Default Value	Description
statusReportList	Yes	List<SmsStatusBean Out>	None	Status report list.

Table 3-107 SmsStatusBeanOut request parameters

Parameter	Mandatory	Type	Default Value	Description
smsMsgId	Yes	String (1 to 50 characters)	None	Unique SMS identifier returned after an SMS is successfully sent.
total	No	String (1 to 2 characters)	None	Number of SMSs that are split from a long SMS. If the SMS is not split, set this parameter to 1 .
sequence	No	String (1 to 2 characters)	None	Sequence number after a long SMS is split. This parameter is valid only when the value of total is greater than 1. If the SMS is not split, set this parameter to 1 .
status	Yes	String (1 to 7 characters)	None	Enumerated values of an SMS status report. For details about the values, see Status options . For details about how to rectify the faults, see SMS Status Error Codes .
source	No	String (enumeration)	None	Source of the SMS status report: - generated by the Message & SMS platform - returned by the SMSC - generated by the Huawei platform

Parameter	Mandatory	Type	Default Value	Description
updateTime	No	String (1 to 20 characters)	None	SMS resource update time, which is generally the UTC time when the Message & SMS platform receives the SMS status report. The value is in the format of yyyy-MM-dd'T'HH:mm:ss'Z'. The time is converted to %3a using urlencode. When the Message & SMS platform does not receive the SMS status report from the SMSC, the platform constructs a status report that does not contain the updateTime parameter.
orgCode	No	String (1 to 7 characters)	None	Status codes of southbound NEs are transparently transmitted. This parameter is contained only in status reports of international SMSs. When the status code is not returned, the parameter is not used.
extend	No	String (1 to 128 characters)	None	Extended field in the request sent by a user. If the SMS sent by a user does not carry the extend parameter, the status report does not contain the extend parameter.
to	No	String (1 to 21 characters)	None	Recipient number of the SMS corresponding to the status report. This parameter is carried only when the status report contains the extend parameter.

Response Parameters

A user can send any response to the Message & SMS platform, where the response is not processed.

Request Example

```
POST /batchReport HTTP/1.1
Host: 205.145.111.168:9330
Content-Type: application/JSON;charset=UTF-8
X-Sdk-Date: 20241212T070653Z
Authorization: SDK-HMAC-SHA256 Access=exampleAk,SignedHeaders=connection;content-length;content-type;host;x-sdk-date,Signature=765a365f3851fd1c96011a82b893266fb7b3e79b3002526c43199c97e61bb88b
Connection: close
Pooltype: appoxy
Ompsid: 7f540777fe4b40dfb3c21d10f48781e3
TerminalIP: *****
TrcModule: AP
UserTrace: application
TraceHandle: DMZ_818405

{"statusReportList":
[{"sequence":"1","total":"1","updateTime":"2023-04-18T07:26:00Z","source":"2","smsMsgId":"f6dcba15-
ced9-45f7-9f5e-af82328c5253_1188602","status":"DELIVRD"},
{"sequence":"1","total":"1","updateTime":"2023-04-18T07:26:00Z","source":"2","smsMsgId":"f6dcba15-
ced9-45f7-9f5e-af82328c5253_123456","status":"DELIVRD"}]}
```

Response Example

```
HTTP/1.1 200 OK
Date: Fri, 13 Apr 2018 06:31:45 GMT
Content-Type: application/JSON; charset=UTF-8
Content-Length: 43

{"returnCode":0,"returnCodeDesc":"Success"}
```

4 Appendixes

4.1 Status Codes

Status Code	Description
200	OK
201	Created
401	Unauthorized
403	Forbidden
404	Not Found
500	System error

4.2 Error Codes

4.2.1 API Error Codes

NOTE

This section describes all error codes returned when calling APIs fails. You are advised to press **Ctrl+F** to search for error codes on the page and find the required handling suggestions.

Solution for 404 Error

If a 404 message is returned when an API is called, check whether the application access address and URI (for details, see [Development Preparation](#)) are correct and whether they are combined into a complete request URL, for example, `https://smsapi.ap-southeast-1.myhuaweicloud.com:443/sms/batchSendSms/v1`.

Error Codes and Handling Suggestions

API calling error codes are generated when the [SMS Sending API](#) or [Batch SMS Sending API](#) is called. An example response is as follows:

Note: One response contains only one error code, and one mobile number corresponds to one status.

```
HTTP/1.1 200 OK
Date: Mon, 06 Aug 2018 11:59:50 GMT
Server: WebServer
Content-Type: application/json;charset=UTF-8
Content-Length: 224

{
  "code": "000000",
  "description": "Success",
  "result": [
    {
      "originTo": "+8618612345678",
      "createTime": "2018-08-06T11:59:50Z",
      "from": "1069031221280000001",
      "smsMsgId": "4b4b34e7-1a9e-42ac-b309-d10997148905_85496076",
      "status": "000000"
    }
  ]
}
```

Table 4-1 Troubleshooting based on the code parameter

Value	Description	Handling Suggestion
000000	The request is sent successfully.	API calling was successful. Wait for the SMS status report.
E000000	The system is abnormal. Typically, this means SMS platform cannot parse the request format because the format is incorrect.	- Check the SMS template and make sure that {} (curly braces) are used for variables, not regular parenthesis. Apply for a new template. - Check whether the quotation marks in the value of templateParas are properly used. Refer to the code examples for reference. - When calling the SMS Sending API, set templateParas to a character string. The value of templateParas and those of template variables require quotation marks. Use escape characters, single quotation marks, or double quotation marks properly. Example: <code>templateParas=["3","Gate of People's Park"]</code> - When calling the Batch SMS Sending API, set templateParas to a character string array. The value of templateParas does not require quotation marks, but the value of each template variable does. Example: <code>templateParas=["3","Gate of People's Park"]</code>

Value	Description	Handling Suggestion
E000 001	Authorization is not contained in the HTTP header.	- Check whether the HTTP message header contains the Authorization field. - Check whether the application key is empty or incorrect. - Check whether the difference between the input Created time and the current UTC time is less than 24 hours. Created indicates the UTC time when the random string is generated, for example, 2018-02-12T15:30:20Z. The time formats vary by programming language. For details, see Table 3-87. - Check whether the input value of passwordDigest matches the value of passwordDigest obtained using the encryption mode supported by the service. The value of passwordDigest is generated based on Base64 (SHA256 (Nonce + Created + Password)). The string consisting of Nonce, Created, and Password is SHA256 encrypted and does not contain plus signs (+) or spaces. Password indicates the value of application secret.
E000 002	realm is not contained in Authorization .	Check whether the Authorization field contains the realm attribute.
E000 003	profile is not contained in Authorization .	Check whether the Authorization field contains the profile attribute.
E000 004	The value of realm in Authorization must be SDP .	Check whether the value of realm in the Authorization field is SDP .
E000 005	The value of profile in Authorization must be UsernameToken .	Check whether the value of profile in the Authorization field is UsernameToken .
E000 006	The value of type in Authorization must be Appkey .	Check whether the value of type in the Authorization field is Appkey .
E000 007	type is not contained in Authorization .	Check whether the Authorization field contains the type attribute.
E000 008	WSSE is not contained in Authorization .	Check whether the Authorization field contains WSSE .

Value	Description	Handling Suggestion
E000 020	X-WSSE is not contained in the HTTP header.	Check whether the HTTP message header contains the X-WSSE field.
E000 021	UserName is not contained in X-WSSE .	Check whether the X-WSSE field contains the UserName attribute.
E000 022	Nonce is not contained in X-WSSE .	Check whether the X-WSSE field contains the Nonce attribute.
E000 023	Created is not contained in X-WSSE .	Check whether the X-WSSE field contains the Created attribute.
E000 024	PasswordDigest is not contained in X-WSSE .	Check whether the X-WSSE field contains the PasswordDigest attribute.
E000 025	The format of Created is incorrect.	Check whether the format of the Created attribute in the X-WSSE field is correct.
E000 026	UsernameToken is not contained in X-WSSE .	Check whether the X-WSSE field contains the UsernameToken attribute.
E000 027	Invalid request.	Check whether the parameters in the request are valid based on the parameter description and requirements in the API reference.
E000 040	The value of ContentType must be application/x-www-form-urlencoded .	Check whether the value of the ContentType header field is application/x-www-form-urlencoded . To send SMSs, set ContentType to application/x-www-form-urlencoded . To send SMSs in batches, set ContentType to application/json .
E000 041	X-Sdk-Date is empty.	For special AK/SK authentication, check the value of X-Sdk-Date in the HTTP message header.
E000 042	Incorrect X-Sdk-Date format.	For special AK/SK authentication, check the format of X-Sdk-Date in the HTTP message header. The format is yyyyMMdd'T'HHmmss'Z'.
E000 043	Incorrect Authorization format.	For special AK/SK authentication, check the format of Authorization in the HTTP message header.
E000 044	X-Sdk-Date expires.	For special AK/SK authentication, check the time of X-Sdk-Date in the HTTP header. The difference between the time and the local time when the request is sent cannot exceed 15 minutes. Otherwise, the authentication fails.

Value	Description	Handling Suggestion
E000 045	Authorization verification failed.	For special AK/SK authentication, check the Signature field in Authorization of the HTTP message header.
E000 101	Authentication failed.	Check whether the values of Authorization and X-WSSE are correct.
E000 102	app_key is invalid.	Check whether app_key in the request is correct. If app_key is correct, check whether the application access address (obtained from the Application Management page on the console) is correct.
E000 103	app_key is unavailable.	Contact the administrator to check whether the app_key status is normal.
E000 104	app_secret is invalid.	Check whether app_secret in the request is correct.
E000 105	PasswordDigest is invalid.	Check whether PasswordDigest in the request is correct.
E000 106	The app_key does not have the permission to call this API.	Contact the administrator to check whether the application corresponding to the app_key supports SMS capability exposure.
E000 109	The user is deactivated.	Contact the administrator to activate the user.
E000 110	The time exceeds the limit.	When X-WSSE authentication is used, make sure that there is not too much difference between the time when the random string is generated and the local time when the request is sent. For details, contact the administrator. Check whether the local time of the server is correct. It is recommended that the difference between the local time of the server and the Beijing time be less than or equal to 8 hours. Check the code for the Created parameter that indicates the random number generation time. Take Java as example. Change YYYY in the format string to yyyy. For details, see SMS Sending API .
E000 111	Incorrect username or password.	The user information corresponding to app_key cannot be found. Contact the administrator.

Value	Description	Handling Suggestion
E000 112	The user is frozen.	If the account is frozen due to arrears, top up the account by referring to Topping Up an Account (Prepaid Direct Customers). Then, the account is automatically unfrozen. If the account is frozen due to violation, modify the service and contact the operations manager to apply for account unfreezing.
E000 503	The parameter format is incorrect.	Check the parameter format. Types of format errors are listed as follows. Handle the problem based on the returned error message. • The template variable contains special characters. For details, see Template and Variable Specifications. • No template ID is carried. • No number is carried. • The format of the template ID is incorrect. A template ID can contain 1 to 32 characters. • The format of the mobile number is invalid. • The number quantity in a single request exceeds the upper limit. • smsContent is invalid. • The length of the extended field exceeds 128 bytes.
E000 510	The SMS fails to be sent. For details about the failure cause, see the status parameter.	Rectify the fault based on Table 4-2 .
E000 620	The peer application IP address is not in the whitelist.	• It takes about 10 to 15 minutes for the IP address whitelist configuration to take effect. This error may be reported if the configuration does not take effect in time. • The IP address whitelist configuration is incorrect. On the console, choose Application Management, click Modify, and check and modify the configured IP address whitelist, or add a correct IP address whitelist (when it is configured by the platform administrator).

Value	Description	Handling Suggestion
E000 623	Number of SMSs sent reached the limit.	Adjust limit values of the total number of SMSs sent by referring to Settings . The default limit value of the total number of SMSs sent per day is 500. The default limit value of the total number of SMSs sent per month is 10,000. You can submit a service ticket to increase the limit values.
E000 630	Number of SMSs sent reached the country/region limit.	Adjust country/region limit values of SMS sending by referring to Settings .

Table 4-2 Troubleshooting based on the status parameter

Value	Description	Handling Suggestion
E200 015	The number of SMSs to be sent exceeds the upper limit.	The SMS platform is performing flow control. Wait for about 10 minutes and try again.
E200 028	The template variable verification failed.	Check the value of templateParas in the request. Check whether the number of variables in the template is correct and whether the length of the variables is less than the specified length of the template specified by templateId. If the template specified by templateId is a non-variable template, the request does not carry templateParas. If templateParas is included, leave it blank. For example: Your verification code is \${NUM_6}. Finish the verification as soon as possible. Have a nice day! Note: The template contains a variable of the numeric type. The variable contains a maximum of six digits. The following are examples of correct values: <pre>templateParas=["12345"]; //API for sending SMS messages templateParas=["345678"]; //API for sending SMS messages in batches</pre> The following are examples of incorrect values: <pre>templateParas=["123","456"]; //API for sending SMS messages. The number of variables is incorrect. templateParas=["1234567"]; //API for sending SMS messages. The variable length is incorrect. templateParas=["1a2b3c"]; //API for sending SMS messages. The variable content type is incorrect.</pre>

Value	Description	Handling Suggestion
E200029	The template type verification failed.	Check the values of templateId and from in the request and verify that the template ID, signature sender number, and type are correct. 1. Log in to the Message & SMS console. Choose Chinese Mainland SMS > Template Management. Check Template Type and Signature based on the value of templateId. 2. Log in to the Message & SMS console. Choose Chinese Mainland SMS > Signature Management. Check Signature Type and Signature Name based on the value of from. 3. Check whether the template type is consistent with the signature type, and whether the signature is consistent with the signature name. If a common signature is used, you do not need to check the consistency between the signature and signature name.
E200030	The template is not activated.	Check whether the value of templateId in the request is correct.
E200031	The protocol verification failed.	Check whether the values of Application Key and Application Secret are correct.
E200033	The template type is incorrect.	Rectify the fault by referring to the recommendation for E200029 . Wait for about 10 minutes and send the request again.
E200041	The recipient numbers of the same SMS are duplicate.	The SMS platform automatically deletes duplicate numbers and sends only one SMS to the number.
E200048	The sending frequency limit is reached.	You can change the sending frequency limit on the Settings page of the console. Alternatively, you can send SMSs after the frequency control time expires.

4.2.2 SMS Status Error Codes

NOTE

This section describes status codes provided by suppliers and the Huawei platform. **Press Ctrl+F to search for the target error codes and handling suggestions.**

Error codes are generated when the [SMS Sending API](#) or [Batch SMS Sending API](#) is called. For details, see [API Error Codes](#).

If **statusCallback** is specified after an API is called successfully, the SMS platform calls the **Status Report Receiving API** to send a status report to the platform user upon receiving the SMS status report from the SMSGW.

An example message is as follows:

```
POST /report HTTP/1.1
Host: 10.10.111.168:9330
Content-Type: application/x-www-form-urlencoded
Connection: close
Pooltype: appoxy
Ompsid: 7f540777fe4b40dfb3c21d10f48781e3
TerminalIP: 10.10.112.18
TrcModule: AP
UserTrace: application
TraceHandle: DMZ_818405

sequence=1&total=1&orgCode=000&updateTime=2018-04-13T06%3A31%3A46Z&source=2&smsMsgId=b9d9b4fe-ad0e-4a2a-a2c7-445505b674ac_6&status=DELIVRD
```

Troubleshooting Based on the status Parameter

Status Code Source	Status Code	Description	Possible Cause	Handling Suggestion
Huawei platform	E200024	International SMSs are not supported.	The international SMS capability is not enabled.	1. Check whether the recipient numbers in the to parameter contain numbers from countries or regions outside the Chinese mainland. If yes, delete the numbers and try again. 2. Check the value of APP_Key and channel number in the from parameter to determine whether international SMS is supported.

Status Code Source	Status Code	Description	Possible Cause	Handling Suggestion
Huawei platform	E200025	Failed to verify the international SMS recipient channel.	- The recipient number is not supported by the application. - The recipient number does not support the channel.	Contact Huawei Cloud customer service to confirm the recipient numbers and delete any numbers that are not supported by the channel (that is, the value of to).
Huawei platform	E200026	Failed to match the international SMS recipient channel.	- The recipient number is not in the carrier code table configured for the application. - No channel number is configured in the from parameter, and no channel is configured for the application.	Record related information and contact Huawei Cloud customer service.
Huawei platform	E200027	Failed to match the gateway.	Routing information such as the gateway is not configured for the application.	Record related information and contact Huawei Cloud customer service.
Huawei platform	E200032	An SMS template is required.	The SMS to be sent does not contain template parameters.	Check whether the request contains template parameters (templateId and templateParas).

Status Code Source	Status Code	Description	Possible Cause	Handling Suggestion
Huawei platform	E200038	Long SMS receiving times out.	This error code is reported if the SMS platform does not receive a complete long SMS request within the timeout period (3 minutes by default).	Check the code and network to ensure that the long SMS request can be sent within a period.
Huawei platform	E200051	Invalid international SMS verification code.	The format of the international SMS verification code does not meet the requirements.	Check whether the international SMS meets the verification code format requirements. For example, the verification code is a string of 4 to 8 digits.
Huawei platform	E000628	Intercepted by the Huawei Cloud internal platform after review.	Countries or regions of the recipient numbers are not in the whitelist.	Countries or regions of the recipient numbers are not added to the whitelist when you set regions, causing the SMS sending failure. Add countries or regions of the recipient numbers to the whitelist on the Settings page on the console.
Huawei platform	E000629	Intercepted by the Huawei Cloud internal platform after review.	The package is used up or no package is purchased.	Check whether the package is used up. If yes, purchase a new package or contact the customer service manager to change the billing mode to pay-per-use.

Status Code Source	Status Code	Description	Possible Cause	Handling Suggestion
Huawei platform	E000632	Intercepted by the Huawei Cloud internal platform after review.	The recipient numbers are in the country number blacklist.	The recipient numbers are added to the blacklist of corresponding countries or regions, causing the SMS sending failure. Delete the configured number or number segment rule on the General Management page of the console. For details, see Number Control Restrictions .
Huawei/Supplier platform (For details, see the value of source in status reports.)	UNDELI V	The terminal is abnormal and cannot receive SMS messages.	The mobile phone status of the subscriber is abnormal. For example, the mobile phone is suspended. In rare cases, subscribers cannot receive SMS messages due to content or blacklist problems.	Check whether the mobile phone is normal.

Status Code Source	Status Code	Description	Possible Cause	Handling Suggestion
Supplier platform	EXPIRED	The SMS timed out.	- The phone is powered off for a long time or is out of the service area. As a result, the SMS times out and is not delivered to the user. - The SMS platform does not receive a status report from the SMSGW within 72 hours after sending the SMS.	During the commissioning, use real mobile numbers for tests. After commercial use is available, if a large number of SMSs times out, record related information and contact Huawei Cloud customer service.
Supplier platform	RTE_ERR	Failed to verify the international SMS recipient channel.	There is no corresponding channel for the target country.	1. Check whether the recipient number is in the list of countries or regions supported by the Message & SMS service. 2. Record related information and contact Huawei Cloud customer service.

Status Code Source	Status Code	Description	Possible Cause	Handling Suggestion
Supplier platform	REJECTD	The SMS has been rejected.	- Before the SMS is sent, the recipient has sent an unsubscription SMS to the channel number. Therefore, the recipient no longer receives SMSs sent from this channel number. - The regulations vary with countries (regions) and carriers. Existing SMS messages may be rejected under new conditions.	Use another mobile number and try again.
Supplier platform	UNKNOWN	Invalid number.	Invalid number.	Dial the number and check whether the number is valid.
Supplier platform	SME8	The number does not exist or the signal of the mobile phone is abnormal.	The number does not exist or the signal of the mobile phone is abnormal.	1. Check whether the mobile phone is normal. 2. Verify that the number is valid.

Status Code Source	Status Code	Description	Possible Cause	Handling Suggestion
Supplier platform	SME34	The number does not exist or the signal of the mobile phone is abnormal.	The number does not exist or the signal of the mobile phone is abnormal.	1. Check whether the mobile phone is normal. 2. Verify that the number is valid.
Supplier platform	SME10	The number does not exist or the signal of the mobile phone is abnormal.	The number does not exist or the signal of the mobile phone is abnormal.	1. Check whether the mobile phone is normal. 2. Verify that the number is valid.
Supplier platform	SME11	The number does not exist or the signal of the mobile phone is abnormal.	The number does not exist or the signal of the mobile phone is abnormal.	1. Check whether the mobile phone is normal. 2. Verify that the number is valid.
Supplier platform	SME21	The number does not exist or the signal of the mobile phone is abnormal.	The number does not exist or the signal of the mobile phone is abnormal.	1. Check whether the mobile phone is normal. 2. Verify that the number is valid.
Supplier platform	SME1029	The number does not exist or the signal of the mobile phone is abnormal.	The number does not exist or the signal of the mobile phone is abnormal.	1. Check whether the mobile phone is normal. 2. Verify that the number is valid.
Supplier platform	SME1028	The number does not exist or the signal of the mobile phone is abnormal.	The number does not exist or the signal of the mobile phone is abnormal.	1. Check whether the mobile phone is normal. 2. Verify that the number is valid.
Supplier platform	SMECL:FAILED	The number does not exist or the signal of the mobile phone is abnormal.	The number does not exist or the signal of the mobile phone is abnormal.	1. Check whether the mobile phone is normal. 2. Verify that the number is valid.

Status Code Source	Status Code	Description	Possible Cause	Handling Suggestion
Supplier platform	SME69	The number does not exist or the signal of the mobile phone is abnormal.	The number does not exist or the signal of the mobile phone is abnormal.	1. Check whether the mobile phone is normal. 2. Verify that the number is valid.
Supplier platform	SME20	The number does not exist or the signal of the mobile phone is abnormal.	The number does not exist or the signal of the mobile phone is abnormal.	1. Check whether the mobile phone is normal. 2. Verify that the number is valid.
Supplier platform	108	The format of the mobile number is invalid.	The format of the mobile number is invalid.	1. Check whether the correct country or region code is added to the number. 2. Verify that the number is valid.
Supplier platform	112	The number is unallocated.	The number is unallocated.	Dial the number and check whether the number is valid.
Supplier platform	101	The mobile phone is powered off or the signal of the mobile phone is abnormal.	The mobile phone is powered off or the signal of the mobile phone is abnormal.	Check whether the mobile phone is normal.
Supplier platform	105	The number is unallocated.	The number is unallocated.	Dial the number and check whether the number is valid.
Supplier platform	103	The number is suspended.	The signal of the mobile phone is abnormal or the number is in arrears.	Check whether the number is in the normal service period.
Supplier platform	-3	The number is unallocated.	The number is unallocated.	Dial the number and check whether the number is valid.

Status Code Source	Status Code	Description	Possible Cause	Handling Suggestion
Supplier platform	88	The channel is abnormal.	The channel is abnormal.	Record related information and contact Huawei Cloud customer service.

4.3 AK/SK-based Pushing Authentication

Function

After AK/SK authentication is enabled and the AK and SK are set, the platform adds the signature timestamp (**X-Sdk-Date**) and the hash code (**Authorization**) used for message authentication when pushing the HTTP status report.

Notes

It takes about 5 minutes for the AK/SK to take effect. During this period, the verification of status reports or uplink SMS push may fail. You can use the dual-AK/SK mode. That is, two AKs/SKs can take effect at the same time. The **Access** field in the **Authorization** request header can be used to determine the valid SK used by the current request.

Authentication Method

The Maven dependency needs to be introduced, which is used in the sample code to implement AK/SK signature.

CAUTION

Replace the value of **version** in the following sample code with the actual SDK version. For details about SDK versions, see [SDK Center](#).

```
<dependency>
<groupId>org.apache.commons</groupId>
<artifactId>commons-lang3</artifactId>
<version>3.14.0</version>
</dependency>
<dependency>
<groupId>commons-io</groupId>
<artifactId>commons-io</artifactId>
<version>2.11.0</version>
</dependency>
<dependency>
<!--Replace it with the actual path.-->
<systemPath>${project.basedir}/libs/java-sdk-core-XXX.jar</systemPath>
<groupId>com.huawei.apigateway</groupId>
<artifactId>java-sdk-core</artifactId>
<version>SDK package version</version>
<scope>system</scope>
</dependency>
```

Java example:

```
@RestController
public class StatusReportController {
    private static final Pattern AUTHORIZATION_PATTERN_SHA256 = Pattern.compile(
        "SDK-HMAC-SHA256\\s+Access=([\\^,]+),\\s?SignedHeaders=([\\^,]+),\\s?Signature=([\\w+])");
    private static Map<String, String> secretMap = new HashMap<>();
    static {
        secretMap.put("exampleAk", "exampleSk*1231d881wd");
    }
    static class Response {
        int returnCode;
        String returnCodeDesc;
        Response(int returnCode, String returnCodeDesc) {
            this.returnCode = returnCode;
            this.returnCodeDesc = returnCodeDesc;
        }
        public int getReturnCode() {
            return returnCode;
        }
        public String getReturnCodeDesc() {
            return returnCodeDesc;
        }
    }
}

@PostMapping("/status")
public ResponseEntity<Response> smsHwStatusReport(HttpServletRequest request) {
    if (!doAuth(request)) {
        // If the authentication fails, the status code 401 is returned.
        return ResponseEntity
            .status(HttpStatus.UNAUTHORIZED) // Set the HTTP status to 401.
            .contentType(MediaType.APPLICATION_JSON)
            .body(new Response(401, "Unauthorized"));
    }
    // Process the status report normally.
    return ResponseEntity
        .status(HttpStatus.OK)
        .contentType(MediaType.APPLICATION_JSON)
        .body(new Response(0, "Success"));
}

public boolean doAuth(HttpServletRequest request) {
    try {
        if (StringUtils.isEmpty(request.getHeader("Authorization"))) {
            // The authorization header is not included.
            return false;
        }
        Matcher match =
AUTHORIZATION_PATTERN_SHA256.matcher(request.getHeader("Authorization"));
        if (!match.find()) {
            // Incorrect Authorization format.
            return false;
        }
        String ak = match.group(1); // Obtain the access key.
        String body = new String(IOUtils.toByteArray(request.getInputStream()),
StandardCharsets.UTF_8); //
        // Obtain the message body string.
        Request r = new Request();
        r.setAppKey(ak);
        r.setSecret(secretMap.get(ak)); // Obtain the secret key.
        r.setUrl(request.getRequestURI()); // Obtain the message path.
        r.setBody(body);
        r.setMethod(request.getMethod());
        Enumeration<String> headerNames = request.getHeaderNames();
        while (headerNames.hasMoreElements()) {
            String headerName = headerNames.nextElement();
            r.addHeader(headerName.toLowerCase(Locale.ROOT), request.getHeader(headerName));
        }
        Signer signer = new Signer();
        return signer.verify(r);
    } catch (Exception e) {
        return false;
    }
}
```

```
    }  
  }  
}
```

5 Change History

Table 5-1 Change history

Date	Description
2025-04-11	This issue is the fifteenth official release. It incorporates the following changes: - Added the signature_related_file_id, registration_number, and license_number fields to the interfaces for querying signature information, creating an SMS signature, obtaining signature details, and modifying an SMS signature. - Discarded signature sources: full name or short name of the website archived by the MIIT, full name or short name of the official account or applet, and full name or short name of the stpe on the e-commerce platform.
2024-12-31	This issue is the fourteenth official release. It incorporates the following change: Optimized the description of the sign_id, template_type, and universal_template fields in the API for creating an SMS template.
2024-12-23	This issue is the thirteenth official release. It incorporates the following change: - Added the enumerated value Disable to the flow_status field of the SMS template modification API, indicating that the process is suspended. - Added the X-Sdk-Date and Authorization fields to the request headers of the APIs for receiving status reports, receiving status reports in batches, and receiving uplink SMS messages. - Added the section about pushing AK/SK verification.

Date	Description
2024-11-18	This issue is the twelfth official release. It incorporates the following change: Added error code E200051 to the section about status receipt error codes.
2024-11-06	This issue the eleventh official release. It incorporates the following change: Modified the function description of the SMS template API. Added the flow_status field to indicate the process status.
2024-10-25	This issue is the tenth official release. It incorporates the following change: Added the section for batch SMS template deletion API.
2024-08-23	This issue is the ninth official release. It incorporates the following change: - Deleted the section for batch SMS template deletion API. - Added error code E000630 to sections about SMS sending and batch SMS sending.
2024-08-02	This issue is the eighth official release. It incorporates the following changes: - Added the section for batch SMS template deletion API. - Added the content about error codes E000041, E000042, E000043, E000044, and E000045 to sections about SMS sending, batch SMS sending, and SMS sending error codes.
2024-07-15	This issue is the seventh official release. It incorporates the following change: Added content about error code E000630 to section "API Error Codes".
2024-07-03	This issue is the sixth official release. It incorporates the following change: Deleted section "Permission Policies and Supported Actions".
2024-07-02	This issue is the fifth official release. It incorporates the following change: Added content about error code E200048 to section "API Error Codes".
2023-05-11	This issue is the fourth official release. It incorporates the following change: Added the section for batch SMS sending APIs.

Date	Description
2022-11-02	This issue is the third official release. It incorporates the following changes: Standardized the structure and added sections "Before You Start", "API Overview", "Calling APIs", and "Appendixes".
2022-09-19	This issue is the second official release. It incorporates the following changes: Added sections for APIs of SMS applications, templates, and signatures.
2022-03-19	This issue is the first official release.