

Alibaba Cloud

Short message Service API Reference

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Document conventions









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

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1. Overview

Short Message Service (SMS) is a messaging service that is provided by Alibaba Cloud. SMS provides an efficient method for you to send verification codes and notification text messages. SMS provides carrier-grade operations and maintenance (O&M) capabilities, monitors the performance of SMS channels in real time and supports automatic channel switchovers. SMS provides a wide range of API operations that allow you to send individual text messages, send text messages in batches, and query the delivery status of text messages.

Notes

You can use the following methods to call SMS API operations:

- Use the software development kits (SDKs) that are developed by using various programming languages for SMS. We recommend that you use this method.
- Use [OpenAPI Explore](#) that is provided by Alibaba Cloud.

Considerations

You must pay attention to the following considerations before you call the API operations:

- Before you call API operations to send text messages to Mainland China, you must create signatures and specify the text message content in the SMS console. You must also obtain the parameter values for the signatures and the text message content.
- For the text messages that are sent to Mainland China, the signatures and the content are valid only when the signatures and the content are in the Approved state.

2. Request method

To send a Short Message Service (SMS) API request, you must send an HTTP GET request to the SMS endpoint. You must add the request parameters that correspond to the API operation being called. After you call the API, the system returns a response.

Short Message Service api


Request syntax

SMS API operations use the RPC protocol. You can call SMS API operations by sending HTTP GET requests. SMS supports both HTTP and HTTPS requests. For data security, we recommend that you send HTTPS requests. All requests and responses are encoded in UTF-8. The request syntax is described as follows:

```
https://Endpoint/?Action=xx&Version=xx&Parameters
```

- **Endpoint:** the endpoint of the SMS API. The endpoint is `Dysmsapi.aliyuncs.com`.
- **Action:** the name of the operation being performed. For example, to send text messages, you must set the Action parameter to `SendSms`.
- **Version:** the version of the SMS API. The current SMS API version is `2018-05-01`.
- **Parameters:** the request parameters for the operation. Separate multiple parameters with ampersands (`&`). Request parameters include both common parameters and operation-specific parameters. Common parameters specify the information such as the API version and identity credentials. For more information, see [Common parameters](#).

The following example demonstrates how to call the `SendSms` operation in SMS to send text messages:


 **Note** The following sample code has been formatted to improve readability.

```
http(s)://dysms.aliyuncs.com? Action=SendSms
&ContentCode=SMS_0000
&PhoneNumbers=["123","456","789"]
&ContentParam={"code":"1234","product":"ytx"}
&ExternalId=abcdefgh
&SignName=Alibaba Cloud
&<Common request parameters>
```

3. Common parameters

Common parameters include common request parameters and common response parameters. To send a Short Message Service (SMS) API request, you must send an HTTP GET request to the SMS endpoint. You must add the request parameters that correspond to the API operation being called. After you call the API, the system returns a response.

Common request parameters

 **Note** The sample code in this topic has been formatted to improve readability.

Common request parameters

Parameter	Type	Required	Description
Format	String	No	The format in which to return the response. Valid values: <i>JSON</i> and <i>XML</i> .
Version	String	Yes	The version number of the API. The format is YYYY-MM-DD. Set the value to <i>2017-05-25</i> .
AccessKeyId	String	Yes	The AccessKey ID provided to you by Alibaba Cloud.
Timestamp	String	Yes	The timestamp of the request. Specify the time in the ISO 8601 standard in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC. For example, you can set this parameter to 2013-01-10T12:00:00Z, which indicates 20:00:00 on January 10, 2013 (UTC+8).
SignatureNonce	String	Yes	A unique, random number used to prevent replay attacks. You must use different numbers for different requests.

Sample requests

```
https://sms.aliyuncs.com/?Format=xml
&Version=2018-05-10
&SignatureNonce=15215528852396
&SignatureVersion=1.0
&AccessKeyId=key-test
&Timestamp=2018-05-10T12:00:00Z
```

Common response parameters

API responses use the HTTP response format where a 2XX status code indicates a successful call and a 4XX or 5XX status code indicates a failed call. Responses can be returned in either the JSON or XML format. You can specify the response format in the request. The default response format is XML.

Every response returns a unique RequestId regardless of whether the call is successful.

- XML format

```
<? xml version="1.0" encoding="utf-8"? >
  <!--Result Root Node-->
  <Interface Name+Response>
    <!--Return Request Tag-->
    <RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId>
    <!--Return Result Data-->
  </Interface Name+Response>
```

- JSON format

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216",
  /*Return Result Data*/
}
```


4.APIs by Functions

The following tables list API operations available for use in SMS. For more information, see the corresponding topic for each API operation.

The SMS Send API does not allow you to send text messages to Mainland China. If you want to send text messages to Mainland China and use global SMS packages, you must use both the SMS Send API and the SMS Go China API

. For more information, see [OpenAPI Explorer](#).

Send text messages to the regions outside Mainland China

API	Description
SendMessageToGlobe	Sends a text message to a region outside Mainland China.

Send text messages to Mainland China

API	Description
SendMessageWithTemplate	Sends a text message by using a template.

Query text messages

API	Description
QueryMessage	Queries text messages.

Obtain a delivery receipt

API	Description
SmsReport	Returns a delivery report that describes the text message status.


5. Create an AccessKey pair

This topic describes how to create an AccessKey pair for an Alibaba Cloud account or a RAM user. When you call an API operation of Short Message Service (SMS), the AccessKey pair is required for identity verification.

Context

An AccessKey pair consists of an AccessKey ID and an AccessKey secret.

- The AccessKey ID is used to verify the identity of the user.
- The AccessKey secret is used to encrypt and verify the signature string for identity authentication. You must keep your AccessKey secret strictly confidential.

 **Warning** If the AccessKey pair of your Alibaba Cloud account is disclosed, your resources are exposed to potential risks. We recommend that you use the AccessKey pair of a RAM user to call API operations. This minimizes the risks of disclosing the AccessKey pair of your Alibaba Cloud account.

For more information about how to create an AccessKey pair, see [Create an AccessKey pair](#).

6.Send SMS API

Sends a text message to a region outside Mainland China. Can't send text messages to China and the United States.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	SendMessageToGlobe	The operation that you want to perform. Valid values: SendMessageToGlobe cluster.
Message	String	Yes	Hello	The content of the text message.
To	String	Yes	12455xxx67	The mobile phone numbers to receive the text messages. You must add the country code to the beginning of each mobile phone number. For example, 12455 xxx67.
From	String	No	Alicloud	The ID of the sender. You can specify the sender ID when you call the API operation. The sender ID can contain digits and letters. If the sender ID contains only letters, the sender ID can be a maximum of 11 characters in length. If the sender ID contains only digits, the sender ID can be a maximum of 15 characters in length.
TaskId	String	No	123xxx789	The ID of the export task that you want to delete.

Response parameters

Parameter	Type	Example	Description
-----------	------	---------	-------------

Parameter	Type	Example	Description
From	String	Alicloud	The ID of the sender that was returned. The API operation returns the sender ID that you have specified in the request parameters.
MessageId	String	1008030xxx3003	The ID of the text message.
NumberDetail	Struct		The details of the mobile phone number.
Carrier	String	CMI	The carrier that provides the mobile phone number.
Country	String	Hongkong, China	The country to which the mobile phone number belongs.
Region	String	HongKong	The region to which the mobile phone number belongs.
RequestId	String	F655A8D5-B967-440B-8683-DAD6FF8DE990	The ID of the request.
ResponseCode	String	OK	The status code that indicates whether the request of sending the text message was submitted.
ResponseDescription	String	The SMS Send Request was accepted	The detailed description of the status code that indicates whether the request of sending the text message was submitted.
Segments	String	1	The number of the text messages that incurred fees.
To	String	"123"	The mobile phone number that received the text message.

Examples

Sample requests

```
http(s)://dysmsapi.ap-southeast-1.aliyuncs.com/?Action=SendMessageToGlobe&Message=Hello&To=12455xxx677<common request parameters>
```

Sample success responses

XML format

```
<SendMessageToGlobeResponse> <From>Alicloud</From> <MessageId>1008030xxx3003</MessageId> <NumberDetail> <Carrier>CMI</Carrier> <Country>Hongkong,China</Country> <Region>HongKong</Region> </NumberDetail> <ResponseCode>OK</ResponseCode> <ResponseDescription>The SMS Send Request was accepted</ResponseDescription> <RequestId>F655A8D5-B967-440B-8683-DAD6FF8DE990</RequestId> <Segments>1</Segments> <To>123</To> </SendMessageToGlobeResponse>
```

JSON Format

```
{ "From": "Alicloud", "MessageId": "1008030xxx3003", "NumberDetail": { "Carrier": "CMI", "Country": "Hongkong,China", "Region": "HongKong" }, "ResponseCode": "OK", "ResponseDescription": "The SMS Send Request was accepted", "RequestId": "F655A8D5-B967-440B-8683-DAD6FF8DE990", "Segments": "1", "To": ["123"] }
```

Error code

Go to the [Error Center](#) For more information, see error codes.

7.SMS batch sending API

Sends text messages in batches to the regions outside Mainland China. Bulk send does not support sending China and the United States. The limit is 1QPS. You can enter up to 250 numbers at a time. If you need to send a large number of SMS messages, you can contact customer service to upgrade the number. You can enter up to 1,000 numbers at a time.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	BatchSendMessageToGlobe	The operation that you want to perform. Valid values: BatchSendMessageToGlobe cluster.
Message	String	Yes	Hello	The content of the text message. <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 5px; margin-top: 10px;"> ? Note The message field must be a jsonArrayString. </div>
To	String	Yes	["123","456","789"]	The mobile phone numbers to receive the text messages. You must add the country code to the beginning of each mobile phone number. You must use an array to specify the mobile phone numbers, for example, ["123","456","789"].
Type	String	Yes	OTP	The type of the text message. Valid values: OTP: verification code NOTIFY: notification text messages MKT: promotional text messages GENERAL: general-purpose text messages

Parameter	Type	Required	Example	Description
From	String	No	Alicloud	The ID of the sender. You can specify the sender ID when you call the API operation. The sender ID can contain digits and letters. If the sender ID contains only letters, the sender ID can be a maximum of 11 characters in length. If the sender ID contains only digits, the sender ID can be a maximum of 15 characters in length.
TaskId	String	No	123xxx789	The ID of the export task that you want to delete.

Response parameters

Parameter	Type	Example	Description
FailedList	String	["123","456"]	The list of the mobile phone numbers that failed to receive the text messages.
From	String	Alicloud	The ID of the sender that was returned. The API operation returns the sender ID that you have specified in the request parameters.
MessageIdList	String	["1008030xxx3003", "1008030xxx3004"]	The list of Message IDs. When batch sending SMS messages, correspond to each successful number
RequestId	String	F655A8D5-B967-440B-8683-DAD6FF8DE990	The ID of the request.
ResponseCode	String	OK	The HTTP status code. If OK is returned, the request is successful. For more information about the other error codes, see Error codes cluster.
ResponseDescription	String	The SMS Send Request was accepted	The description of the status code.

Parameter	Type	Example	Description
SuccessCount	String	1	The number of the text messages that were sent.

Examples

Sample requests

```
http(s)://dysmsapi.ap-southeast-1.aliyuncs.com/?Action=BatchSendMessageToGlobe
&Message=Hello
&To=["123","456","789"]
&<common request parameters>
```

Sample success responses

XML format

```
<ResponseCode>OK</ResponseCode> <RequestId>F655A8D5-B967-440B-8683-DAD6FF8DE990</Req
uestId> <FailedList>["123","456"]</FailedList> <ResponseDescription>The SMS Send Request was acce
pted</ResponseDescription> <From>Alicloud</From> <SuccessCount>1</SuccessCount> <MessageIdL
ist>["1008030xxx3003","1008030xxx3004"]</MessageIdList>
```

JSON Format

```
{ "ResponseCode": "OK", "RequestId": "F655A8D5-B967-440B-8683-DAD6FF8DE990", "FailedList": "[\"1
23\", \"456\"]", "ResponseDescription": "The SMS Send Request was accepted", "From": "Alicloud", "Succ
essCount": 1, "MessageIdList": "[\"1008030xxx3003\", \"1008030xxx3004\"]" }
```

Error codes

Go to the [Error Center](#) For more information, see error codes.

8.SMS sending China API


Sends a text message by using a template. Only China and the United States are allowed to send.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	SendMessageWithTemplate	The operation that you want to perform. Valid values: SendMessageWithTemplate* .
TemplateCode	String	Yes	SMS_0000	The template code.
To	String	Yes	86137xxx688	The mobile phone numbers to receive the text messages. You must add the country code to the beginning of each mobile phone number. For example, 86137 xxx688.
From	String	No	Alicloud	The ID of the sender. Signature requests sent to ECS instances both in mainland China and non-China respectively. Please apply for an SMS signature on the console.

Parameter	Type	Required	Example	Description
TemplateParam	String	No	<code>{"code": "1234", "product": "ytx"}</code>	<p>The values of the variables that are included in the text message template. The values must use the JSON format.</p> <div style="border: 1px solid #add8e6; padding: 5px; background-color: #e6f2ff;"> <p> Note If line feeds are required in JSON-formatted data, the line feeds must meet the relevant requirements that are specified in the standard JSON protocol.</p> </div>
SmsUpExtendCode	String	No	90999	The extension code of the upstream text message.

Response parameters

Parameter	Type	Example	Description
MessageId	String	1008030xxx3003	The ID of the text message.
NumberDetail	Struct		The details of the mobile phone number.
Carrier	String	China Mobile	The carrier that provides the mobile phone number.
Country	String	China	The country to which the mobile phone number belongs.
Region	String	Nanjing, Jiangsu	The region to which the mobile phone number belongs.
ResponseCode	String	OK	The status code that indicates whether the request of sending the text message was submitted.

Parameter	Type	Example	Description
ResponseDescription	String	The SMS Send Request was accepted	The detailed description of the status code that indicates whether the request of sending the text message was submitted.
Segments	String	1	The number of the text messages that incurred fees.
To	String	86137xxx688	The mobile phone numbers to receive the text messages. You must add the country code to the beginning of each mobile phone number. For example, 86137xxx688.

Examples

Sample requests

```
http(s)://dysmsapi.ap-southeast-1.aliyuncs.com/?Action=SendMessageWithTemplate&TemplateCode=SMS_0000&To=86137xxx688&<common request parameters>
```

Sample success responses

XML format

```
<MessageId>1008030xxx3003</MessageId> <NumberDetail> <Carrier>China Mobile</Carrier> <Country>China</Country> <Region>Nanjing, Jiangsu</Region> </NumberDetail> <ResponseCode>OK</ResponseCode> <ResponseDescription>The SMS Send Request was accepted</ResponseDescription> <Segments>1</Segments> <To>86137xxx688</To>
```

JSON Format

```
{ "MessageId": "1008030xxx3003", "NumberDetail": { "Carrier": "China Mobile", "Country": "China", "Region": "Nanjing, Jiangsu" }, "ResponseCode": "OK", "ResponseDescription": "The SMS Send Request was accepted", "Segments": "1", "To": "86137xxx688" }
```

Error code

Go to the [Error Center](#) For more information, see error codes.

9.SMS status query API

Queries text messages.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	QueryMessage	The operation that you want to perform. Valid values: QueryMessage cluster.
MessageId	String	Yes	1008030xxx3003	The ID of the text message.

Response parameters

Parameter	Type	Example	Description
ErrorCode	String	DELIVERED	The status code that indicates whether the text message was delivered.
ErrorDescription	String	success	The description of the status code that indicates whether the text message was delivered.
Message	String	Hello!	The content of the text message.
MessageId	String	1008030xxx3003	SMS sending ID
NumberDetail	Struct		The details of the mobile phone number.
Carrier	String	CMI	The carrier that provides the mobile phone number.
Country	String	Hongkong, China	The country to which the mobile phone number belongs.

Parameter	Type	Example	Description
Region	String	HongKong	The region to which the mobile phone number belongs.
ReceiveDate	String	Mon, 24 Dec 2018 16:58:22 +0800	The time when the delivery receipt was received from the carrier.
ResponseCode	String	OK	The status code that indicates whether the request of sending the text message was submitted.
ResponseDescription	String	The SMS Send Request was accepted	The detailed description of the status code that indicates whether the request of sending the text message was submitted.
SendDate	String	Mon, 24 Dec 2018 16:58:22 +0800	The time when the text message was sent to the carrier.
Status	String	1	The status that indicates whether the text message was sent. <ul style="list-style-type: none"> • 1: success. • 2: failure.
To	String	6581xxx810	The mobile phone number that received the text message.

Examples

Sample requests

```
http(s)://dysmsapi.ap-southeast-1.aliyuncs.com/?Action=QueryMessage&MessageId=1008030xxx3003&<common request parameters>
```

Sample success responses

XML format

```
<QueryMessageResponse> <ErrorCode>DELIVERED</ErrorCode> <ErrorDescription>success</ErrorDescription> <Message>Hello! </Message> <NumberDetail> <Carrier>CMI</Carrier> <Country>Hongkong, China</Country> <Region>HongKong</Region> </NumberDetail> <ReceiveDate>Mon, 24 Dec 2018 16:58:22 +0800</ReceiveDate> <ResponseCode>OK</ResponseCode> <ResponseDescription>The SMS Send Request was accepted</ResponseDescription> <SendDate>Mon, 24 Dec 2018 16:58:22 +0800</SendDate> <Status>1</Status> <To>6581xxx810</To> </QueryMessageResponse>
```

JSON Format

```
{ "ErrorCode": "DELIVERED", "ErrorDescription": "success", "Message": "Hello!", "NumberDetail": { "Carrier": "CMI", "Country": "Hongkong, China", "Region": "HongKong" }, "ReceiveDate": "Mon, 24 Dec 2018 16:58:22 +0800", "ResponseCode": "OK", "ResponseDescription": "The SMS Send Request was accepted", "SendDate": "Mon, 24 Dec 2018 16:58:22 +0800", "Status": 1, "To": "6581xxx810" }
```

Error code

Go to the [Error Center](#) For more information, see error codes.

10.Receive message delivery receipts

After you call an API operation to send SMS messages, you can use a Message Service (MNS) queue or HTTP URL to receive message delivery receipts.

Receive message delivery receipts

You can use either of the following methods to receive message delivery receipts:

- MNS queues

MNS queues support all types of SMS messages. After you enable MNS to subscribe to a specified message type in the SMS console, MNS automatically generates a message queue. To query detailed information of the queue, you can use an STS token that is generated from your AccessKey pair to call an API operation. When you call the operation, specify the QueueName and MessageType parameters. You can call the SmsReport operation to push message delivery receipts from the queue.


- HTTP URLs

After you set an HTTP callback URL in the SMS console, SMS uses HTTP POST requests to send messages to the specified callback URL. You can retrieve the messages from the URL.

Enable message receiving

To receive message delivery receipts, you must enable the message receiving feature in the console.

1. Log on to the [SMS console](#).
2. In the left-side navigation pane, choose **System Setting** **General Setting**.
3. On the **API Setup** tab, find the **SMS Delivery Report Setting** section, and select the required method.
 - If you select **Message Queue to receive SMS Delivery Report**, SMS delivery receipts are pushed to a specified MNS queue.
 - If you select **For each SMS sending request, the delivery report is sent as a POST response to the URL you provide**, for detailed configuration steps please refer to [Help Document](#)., SMS delivery receipts are pushed to a specified URL by using the HTTP POST method.
 - a. Turn on the switch.
 - b. Configure response parameters.
 - c. Enter a URL and click **Save**.

 **Note** Before you save the settings, SMS tests the URL based on sample values. If the test fails, the URL fails to be saved.

URL example: `http://push.example.com/contextpath/receive.do`.

11. Consumption modes of message delivery report

This topic describes how to set the modes in which the delivery reports of text messages are consumed.

Consumption mode of Message Service (MNS) message queue

Short Message Service (SMS) can push message delivery reports to MNS queues. You can enable this feature in the SMS console. The system creates a message queue, and displays the name of the queue. You can call the SDK to pull the reports based on the message type (MNS subscription) and queue name.

The following table describes the parameters of a message delivery report.

Parameter	Type	Description	Example
PhoneNumber	String	The mobile phone number of the recipient.	1300***0000
SendStatus	String	The sending status. <ul style="list-style-type: none">• 1 Deliverd• 2 Failed• 6 Expired	Deliverd
BizId	String	The ID of the delivery receipt.	1234^345
ExternalId	String	The ID of the batch. Set this parameter to the value of the outId parameter that is specified when you call an API operation to send text messages.	123456
SendDate	String	The time when the text message was sent.	2017-06-01 10:00:00
ReceiveDate	String	The time when the SMS delivery receipt was received from the carrier.	2017-06-01 10:00:05
ErrorCode	String	The error code.	UNKNOW
ErrorMessage	String	The error message.	Unknown error.

Parameter	Type	Description	Example
SmsQuantity	String	Each text message must be 1 to 140 bytes in length. If a text message exceeds 140 bytes, it is separated into multiple text messages.	1, 2, 3

Push message delivery reports in batches to an HTTP URL

SMS can send HTTP POST requests to push message delivery reports in batches to an HTTP URL (callback URL). You can enable this feature in the SMS console and set the URL that receives the reports. Then, you can pull the reports from the URL.

The following table describes the parameters of a message delivery report.

Parameter	Description
Protocol	HTTP + JSON
Encoding	UTF-8

Each HTTP request is formatted as a JSON array, and can contain multiple message delivery reports.

Request description

- Sample request

```
[
  {
    "PhoneNumber" : "13900000001",
    "SendDate" : "2017-01-01 00:00:00",
    "ReceiveDate" : "2017-01-01 00:00:00",
    "SendStatus" : DELIVERD,
    "ErrorCode" : "UNKNOW",
    "ErrorMessage" : "Unknown error.",
    "SmsQuantity" : "1,2,3",
    "BizId" : "1234567^0",
    "ExternalId" : "67890"
  }
]
```

- Parameters

Parameter	Type	Description	Example	Required
-----------	------	-------------	---------	----------

Parameter	Type	Description	Example	Required
PhoneNumber	String	The mobile phone number of the recipient.	13900000001	Yes
SendDate	String	The time when the text message was sent.	2017-01-01 00:00:00	Yes
ReceiveDate	String	The time when the SMS delivery receipt was received from the carrier.	2017-01-01 00:00:00	Yes
SendStatus	String	The sending status. <ul style="list-style-type: none"> ◦ 1 Delivered ◦ 2 Failed ◦ 6 Expired 	Delivered	Yes
ErrorCode	String	The error code.	UNKNOWN	Yes
ErrorMessage	String	The error message.	Unknown error.	Yes
SmsQuantity	String	Each text message must be 1 to 140 bytes in length. If a text message exceeds 140 bytes, it is separated into multiple text messages.	1,2,3	Yes
BizId	String	The ID of the delivery receipt.	1234567^0	Yes
ExternalId	String	The ID of the batch. Set this parameter to the value of the outId parameter that is specified when you call an API operation to send text messages.	67890	Yes

Response description

- Sample response

```
{  
  "code" : 0,  
  "msg" : "The message is received."  
}
```


- Parameters

Parameter	Type	Description	Example	Required
code	Number	The code of the response	0	Yes
msg	String	The description of the response	Received	The message is received.

12.SmsReport

Alibaba Cloud Short Message Service (SMS) pushes message delivery reports to a specified message queue. To view the queue name, log on to the SMS console. You can call this operation to pull the message delivery reports from the message queue.

Request parameters

 **Note** Users can specify message service (MNS) queues or HTTP URLs to receive SMS sending status reports pushed by SMS. The SmsReport is then called to pull the messaging report from the specified message queue or HTTP server. You must specify the following parameters when calling this operation:

For more information about how to specify an MNS queue or HTTP URL, see [message receiving mode](#).

If SMS messages are sent from regions outside mainland China to mainland China, specify the following parameters when you call this operation.

Parameter	Type	Description	Example
PhoneNumber	String	The mobile number of the recipient.	159 consecutive minutes * 5678
SendStatus	String	The delivery status of the message.	The sending status of the SMS message: <ul style="list-style-type: none"> 1 Delivered 2 Failed 6 Expired
BizId	String	The ID of the delivery receipt.	1234567 ^ 0
ExternalId	String	The ID of the batch. Set this parameter to the value of the outId parameter that is specified when you call an operation to send messages.	123456
SendDate	String	The time when the message was sent.	2020-05-01 10:00:00
ReceiveDate	String	The time when the delivery receipt was received from the carrier.	2020-05-01 10:00:03
ErrorCode	String	Error codes	UNKNOWN

Parameter	Type	Description	Example
ErrorMessage	String	The error message.	An unknown error has occurred.
SmsQuantity	String	The number of messages. Each message can be up to 140 bytes in length. If a message is longer than 140 bytes, SMS separates the message into multiple messages.	1, 2, 3

If SMS messages are sent from mainland China to regions outside mainland China, specify the following parameters when you call this operation.

Parameter	Type	Description	Example
To	String	The mobile number of the recipient.	159 consecutive minutes * 5678
Status	String	The delivery status of the message.	The sending status of the SMS message: <ul style="list-style-type: none"> • 1 Delivered • 2 Failed • 6 Expired
MessageId	String	The ID of the delivery receipt.	123456789
TaskId	String	The ID of the batch. Set this parameter to the value of the taskId parameter that is specified when you call an operation to send messages.	123456
SendDate	String	The time when the message was sent.	2020-05-01 10:00:00
ReceiveDate	String	The time when the delivery receipt was received from the carrier.	2020-05-01 10:00:03
ErrorCode	String	Error codes	UNKNOWN
ErrorDescription	String	The error message.	An unknown error has occurred.

Examples

Sample requests


```
[
  {
    "PhoneNumber" : "1390****001",
    "SendDate" : "2017-01-01 00:00:00",
    "ReceiveDate" : "2017-01-01 00:00:00",
    "SendStatus" : "1",
    "ErrorCode" : "UNKNOW",
    "ErrorMessage" : "An unknown error has occurred.",
    "SmsQuantity" : "1,2,3",
    "BizId" : "1234567^0",
    "ExternalId" : "67890"
  }
]
```

Sample success responses

```
{
  "code" : 0,
  "msg" : "The message is received."
}
```

13. Error Code (new)

This topic describes the latest error codes and return error codes.

 **Note** To improve our SMS service, we will be updating our APIs and the corresponding error codes on 13 August 2020. Of which, we have included a new "Expired" status code "6" in the DLR report. Please take note and update your systems if necessary.

Common error codes

API error code	Description	Solution
OK	Success.	-
SYSTEM_ERROR	System Error.	Please contact Alibaba Cloud SMS to resolve the issue
NOT_SUPPORTED_COUNTRY	Alibaba Cloud SMS is not supported in this country.	Please contact Alibaba Cloud SMS to resolve the issue
OUT_OF_SERVICE	Alibaba Cloud SMS service is out of service.	Please contact your account manager to resume services
ACCOUNT_NOT_EXISTS	The SMS account information does not exist.	Please check if you had enabled SMS service
SMS_CONTENT_CODE_ILLEGAL	The SMS message content is not allowed.	Please ensure the message does not contain any spam related content
SMS_SIGN_NAME_ILLEGAL	The SMS message signature is not allowed.	Please ensure the SMS signature is within the guidelines as stated on our web site
MOBILE_NUMBER_ILLEGAL	The mobile number format is invalid.	Please resubmit the message with a valid mobile number format
MOBILE_COUNT_OVER_LIMIT	The number of mobile numbers exceeded 1000 per batch.	Please limit the number of mobile numbers to 1000 when the batch API.
CONTENT_MISSING_PARAMETERS	Some parameters are missing.	Please ensure that all parameters are included in the requests.
INVALID_PARAMETERS	Invalid parameters.	Please ensure submitted parameters are in the valid format.

API error code	Description	Solution
INVALID_JSON_PARAM	The JSON paramter is empty; or JSON string parsing error.	Please ensure submitted parameters are in the valid format.
BLACK_KEY_CONTROL_LIMIT	There are spam related content within the message.	Please ensure the message do not contain any spam related content.
PARAM_LENGTH_LIMIT	You have reached the parameter length limit.	Please contact Alibaba Cloud SMS to resolve the issue
AMOUNT_NOT_ENOUGH	The package credit has been fully consumed.	Please purchase a new package to continue sending SMS.
DATA_NOT_EXIST	There are no records for the SMS.	Please try again later.
RAM_PERMISSION_DENY	Access denied for RAM account.	Please grant access rights to necessary RAM accounts and retry again.
FORBIDDEN_ACTION	Access to account has been forbidden	Please contact Alibaba Cloud SMS to resume services.
INVALID_SENDERID	This is an invalid SenderID	Please contact Alibaba Cloud SMS to resolve the issue
QUERY_DATE_ILLEGAL	The date of query is invalid.	Please ensure submitted parameters are in the valid format.
SYSTEM_LIMIT_CONTROL	System sending limit has been reached.	Please contact Alibaba Cloud SMS to resolve the issue
ALERT_LIMIT_DAY	Account daily sending limit has been reached.	Please re-configure the daily sending limit in the console.
ALERT_LIMIT_MONTH	Account monthly sending limit has been reached.	Please re-configure the monthly sending limit in the console.
PRODUCT_NOT_SUBSCRIBED	SMS service is not activated	Please enable the SMS service in the console..

Receipt-related error codes

Error code	Error message
IN_SMS_CONTENT	Inappropriate SMS content or Invalid Message Length

Error code	Error message
INVALID_NUM	Invalid destination. Receiver is not a valid number
INVALID_SENDERID	Invalid sender ID
OPERATOR_NOT_SUPPORT	Local Operator doesn't support
PHONE_NOT_AVAILABLE	Phone number or handset is not available, or handset memory capacity exceeded
PORTED_NUM	Ported number
RECEIVER_BLACKLIST	Receiver is black-listed, blocked by Carrier
SYSTEM_ERR	System error, caused by network operator, need to submit ticket to check the specific failed reason
UNKNOWN_ERR	Failed message delivery, need to submit ticket to check the specific failed reason
URL_FAILURE	URL blacklisted

14. Error codes

An error code is returned if a call fails.

Common error codes

API error code	SMPP error code	Error message	Solution
OK	20	The call is successful.	
isp.SYSTEM_ERROR	21	A system error has occurred on the access layer.	
isp.UNKNOWN	22	An unknown error has occurred.	
isv.NOT_SUPPORTED_COUNTRY	26	SMS does not support the specified destination country.	
isv.OUT_OF_SERVICE	27	The service is not available.	
isv.ACCOUNT_NOT_EXISTS	29	The specified account does not exist.	
isv.ACCOUNT_ABNORMAL	30	The specified account is invalid.	
isv.SMS_CONTENT_CODE_ILLEGAL	31	The specified template does not exist or is blocked.	
isv.SMS_SIGN_NAME_ILLEGAL	32	The specified signature does not exist or is blocked.	
isv.MOBILE_NUMBER_ILLEGAL	33	The format of the specified mobile number is invalid.	
isv.MOBILE_COUNT_OVER_LIMIT	34	The number of mobile numbers exceeds 1,000.	
isv.CONTENT_MISSING_PARAMETERS	35	The specified template variable is left empty.	
isv.INVALID_PARAMETERS	36	The specified parameter is invalid.	
isv.INVALID_JSON_PARAM	42	The specified JSON parameter is invalid.	

API error code	SMPP error code	Error message	Solution
isv.BLACK_KEY_CONTROL_LIMIT	43	The specified template variable includes the keyword that is blocked.	
isv.PARAM_LENGTH_LIMIT	44	The length of the specified variable exceeds the limit.	
isv.AMOUNT_NOT_ENOUGH	45	The account balance is insufficient.	
isv.DATA_NOT_EXIST	46	The specified SMS record does not exist.	
isv.BILLING_DEDUCTION_ERROR	47	The specified account has overdue payments.	
isp.RAM_PERMISSION_DENY	55	The specified account is not authorized to access SMS.	
isv.PRODUCT_UNSUBSCRIPT	57	The specified Alibaba Cloud user has not activated SMS.	
isp.SYSTEM_ERROR	23		
isp.GATEWAY_ERROR	24	The specified background program has failed to be called.	
isv.FORBIDDEN_ACTION	25	The specified operation is forbidden.	
isv.SENDERID_ERROR	25	The SenderId parameter is blocked by the destination country.	
BUSINESS_LIMIT_CONTROL_MINUTE	38	The minute-level business throttling is triggered.	
isv.BUSINESS_LIMIT_HOUR	39	The hour-level business throttling is triggered.	
isv.BUSINESS_LIMIT_DAY	40	The day-level business throttling is triggered.	
BUSINESS_LIMIT_CONTROL_PHONE	41	The day-level business throttling is triggered for the specified mobile number.	

API error code	SMPP error code	Error message	Solution
isp.SYSTEM_ERROR	46	A system error has occurred.	
isv.COUNTRY_RESTRICTED	90	The specified API operation does not support the destination country.	
isv.QUERY_DATE_ILLEGAL	52	The query time is invalid.	
isv.RAM_CHECK_FAILED	54	The RAM permission has failed to be verified.	
isp.RES_OWNER_ID_UNKOWN	56	The ID of the Alibaba Cloud account to which the resource belongs cannot be found.	
isv.SYSTEM_LIMIT_CONTROL	81	The daily quota of messages that SMS can send has been reached.	
isv.DAY_LIMIT_CONTROL	84	The daily quota of messages that the user can send has been reached.	
isv.MONTH_LIMIT_CONTROL	85	The monthly quota of messages that the user can send has been reached.	

Receipt-related error codes

Error code	Error message	Solution
IN_SMS_CONTENT	Inappropriate SMS content or Invalid Message Length	
INVALID_NUM	Invalid destination. Receiver is not a valid number	
INVALID_SENDERID	Invalid sender ID	
OPERATOR_NOT_SUPPORT	Local Operator doesn't support	
PHONE_NOT_AVAILABLE	Phone number or handset is not available, or handset memory capacity exceeded.	
PORTED_NUM	Ported number	

Error code	Error message	Solution
RECEIVER_BLACKLIST	Receiver is black-listed, blocked by Carrier	
SYSTEM_ERR	System error, caused by network operator, need to submit ticket to check the specific failed reason	
UNKNOWN_ERR	Failed message delivery, need to submit ticket to check the specific failed reason	
URL_FAILURE	URL blacklisted	