Message & SMS

User Guide

Issue 13

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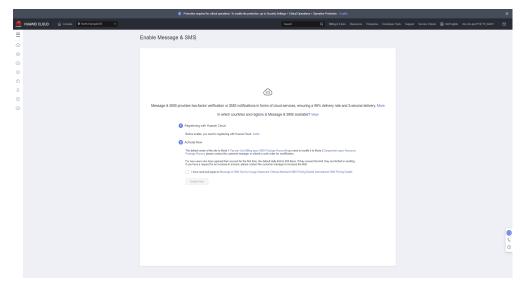
1 Enabling Message & SMS

Prerequisites

- Only enterprise users can enable the Message & SMS service.
- (For international SMS) You have **registered an account** using an email and completed account information as an enterprise user.
- (For Chinese mainland SMS) You have **registered an account** using an email, completed account information as an enterprise user, and passed **enterprise real-name authentication**.

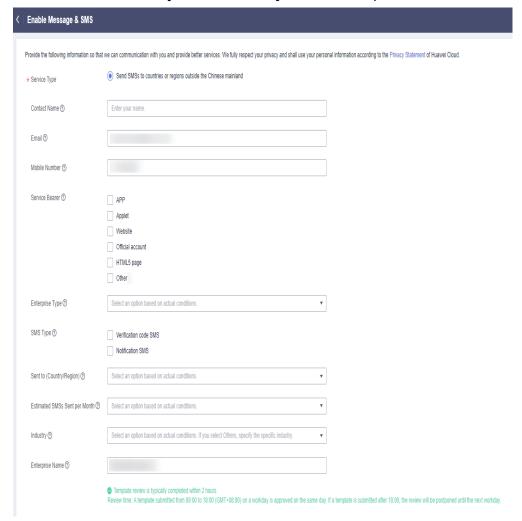
Enabling the Service

- 1. Visit the **Enable Message & SMS** page.
- 2. Select I have read and agree to Message & SMS Service Usage Statement and click Enable Now.



NOTICE

- By default, Huawei Cloud (International) uses mode 1 (pay-per-use billing upon SMS package runout). To change the mode to mode 2 (suspension upon resource package runout), contact the account manager or submit a service ticket.
- By default, a new user of Message & SMS can send up to 500 SMSs per day. Contact the account manager to increase the quota.
- 3. Fill out the service survey form based on your service requirements.



Parameter	Description
Service Type	Send SMSs to countries or regions outside the Chinese mainland is selected by default.
Contact Name	Enter your name as the enterprise contact.
Email	Enter a valid email address. Huawei Cloud will contact you through this email address.

Parameter	Description
Mobile Number	Enter your phone number or mobile number. Huawei Cloud will contact you through this number.
Service Bearer	Select and enter information about the service platform on which the customer can access the service. • APP • Applet • Website • Official account • HTML5 page • Other
Enterprise Type	 Set the parameter based on your requirements. Channel seller: Encapsulate Voice Call capabilities in products to be provided for customers in various scenarios.
	SaaS: Integrate Voice Call capabilities to self- developed systems or software. The Voice Call service cannot be sold independently and is a value-added capability.
	Direct customer: Use the Voice Call service by themselves.
SMS Type	Select an option based on the actual service scenario and fill in the template. If each SMS type has multiple common templates, list them one by one. A maximum of three templates can be listed. • Verification code SMS • Notification SMS • Promotion SMS
Sent to (Country/ Region)	 Select an option based on the actual service coverage. A. To only one country. Enter the country name. B. To fewer than 5 countries. Enter the country names. C. To fewer than 10 countries. D. Globally
Estimated SMSs Sent per Month	Set the parameter based on the actual service volume. • A. 0 to 30,000 • B. 30,000 to 150,000 • C. More than 150,000

Parameter	Description
Industry	Select an option based on actual conditions. If you select Others , specify the specific industry. • Movie & audio • Transaction & payment
Enterprise Name	Enter the full name of your enterprise and ensure that it is the same as the name in the business license.

4. Click Enable Now for review.

Applications submitted between 09:00 and 18:00 (GMT+08:00) on workdays will be reviewed on the same day. Those submitted after 18:00 (GMT+08:00) will be reviewed on the next workday.

□ NOTE

You can only apply for enabling Message & SMS after **prerequisites** are met. The complete **account registration** process includes registering an account using an email, binding a mobile number, completing account information, and specifying a payment method. To use complete functions of Message & SMS, log in to Huawei Cloud after enabling the service, and click **LINK** in the message to add account details. (If you have not bound a service mobile number, **bind one**.)

Exceptions and Handling Suggestions

Symptom	Handling Suggestion
The system displays the message "You have not bound an email address. Bind".	Go the Basic Information page and check whether an email address has been bound to the account. If no, bind an email address to the account. If yes, modify the email address and try again.
The system displays the message "Another Huawei Cloud account has already been used to activate the Message & SMS service. Contact the customer service hotline to associate this new account with the original one."	Check whether the Huawei Cloud account name has been changed. If yes, use the original account name and try again. Alternatively, provide the original and new account names and contact Huawei Cloud customer service.
The system displays the message "Currently, IAM users are not allowed to subscribe to this service. Please log in and enable this service."	Currently, you can only enable Message & SMS using a master account. Log in to the console using a master account and grant the Message & SMS permissions in the corresponding region to the IAM user.

Symptom	Handling Suggestion
An error is reported when you check whether the service is enabled.	Check whether the real-name authentication information of your account is correct and whether your
After you click Enable Now , the system does not respond or the page is not displayed.	account has passed the real-name authentication of Huawei Cloud. Ensure that the basic user information is complete and the mobile number has
The Enable Now button is grayed out.	 been bound. Check whether the country or region where the account is registered is in the list of countries and regions where Message & SMS is available.
	 Ensure that you have selected I have read and agree to Message & SMS Service Usage Statement. Clear the browser cache and try again.

2 Selecting a Service Mode

Overview

By default, Message & SMS provides mode 1 for new users. If you want to switch the mode, **submit a service ticket**.

- In the pay-per-use billing upon SMS package runout mode (mode 1), you are billed on a pay-per-use basis after the international SMS package runs out. For details about the billing mode, see **Price Details** of mode 1.
- In the suspension upon resource package runout mode (mode 2), the
 platform automatically suspends SMS sending after the international SMS
 resource package runs out. This is a new mode. For details about the billing
 mode, see Price Details of mode 2.
- SMS packages are for mode 1 (**Purchase Guide**), and resource packages are for mode 2 (**Purchase Guide**).
- In mode 1, you can send both international and Chinese mainland SMSs. In mode 2, you can send only international SMSs. For details about the function differences, see the following chapters in this document.

Notes

- Packages in the two modes are independent of each other and cannot be used together. To switch between the two modes, submit a service ticket.
 You can switch from mode 1 to mode 2 only after the existing packages are used up.
- If you need to send Chinese mainland SMSs, do not switch to the suspension upon resource package runout mode (mode 2).
- In mode 2, you can send SMSs after you purchase a resource package and send SMSs only to the country (or region) supported by the resource package.
 For details, see Price Details SMSs cannot be sent to the countries that are not supported by the resource package.
- When you apply to switch from mode 2 to mode 1, the platform may reject your application based on multiple factors, such as credit. If you are using mode 2, you are advised to retain the current mode unless you have other needs.

Procedure

- If you want to switch to another mode, log in to the console and choose
 More > Service Tickets > Create Service Ticket in the upper right corner.
- 2. Choose **Services** > **Quotas**. On the displayed page, select **Quota Application** and click **Create Now**.
- 3. Select **CN-Hong Kong** for **Region**. In **Problem Description**, enter the following content and replace *xxx* based on your service requirements:

 Message & SMS service mode switch application: Account *xxx* applies to switch to the pay-per-use billing upon SMS package runout mode (mode 1) or suspension upon resource package runout mode (mode 2).
- Wait for your application to be reviewed. The limit values will be automatically changed upon approval. You can choose Service Tickets > My Service Tickets to view your application review progress.

If you submit a mode switch application between 09:00 and 18:00 (GMT+08:00) on workdays, the mode will be switched within 2 hours. If you submit the application after 18:00 (GMT+08:00), the mode will be switched on the next workday. The switch is performed only on workdays. If there is a legal holiday, the switch may be postponed.

3 Mode 1: Pay-per-Use Billing upon SMS Package Runout

Resource Introduction

Creating an SMS Application

Applying for an SMS Signature

Applying for an SMS Template

Using Group SMS Assistant

Viewing Statistics (New Version)

Viewing Statistics (Old Version)

Viewing Sending Details

General Management

3.1 Resource Introduction

This section describes the relationships between international SMS applications and templates, and among Chinese mainland SMS applications, signatures, and templates.

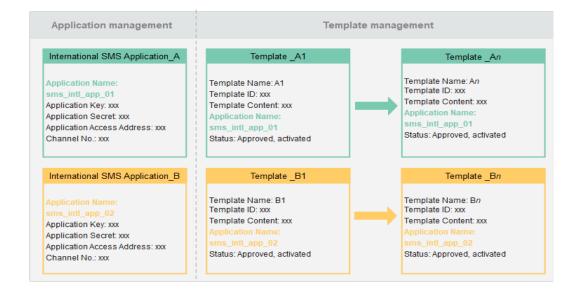
International SMS resources are different from Chinese mainland SMS resources. You need to add resources for each type separately.

International SMS

□ NOTE

You need to prepare the data and SMS API request parameters before sending international SMSs. For details, see **Development Preparation (International SMS)**.

Featu re	SMS Application	SMS Template	Example
Maxi mum quant ity	2 (default)	By default, a maximum of 2,000 templates can be created for each application. To increase the quota, submit a service ticket or contact the account manager.	 By default, a maximum of two international SMS applications can be created, for example, sms_intl_app_01 and sms_intl_app_02. Template examples: Template_A1,, and Template_An.
Servic e type	International SMS application	-	-
Resou rce restric tions	 Resources of the international SMS application and Chinese mainland SMS application are independent of each other and cannot be shared. Resources of the two international SMS applications are independent of each other and cannot be shared. 	Each template belongs to an application and can only be used with the application.	A template must match its application. Examples: Correct: sms_intl_app_01 and Template_A1 Incorrect: sms_intl_app_01 and Template_B1



Chinese Mainland SMS

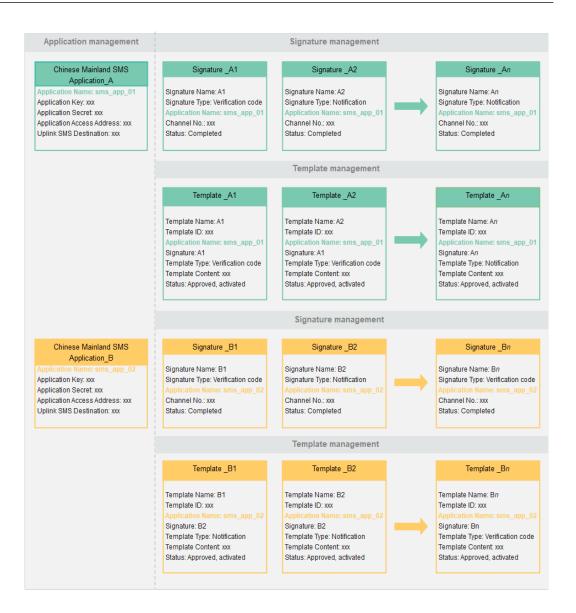
□ NOTE

You need to prepare the data and SMS API request parameters before sending Chinese mainland SMSs. For details, see **Development Preparation (Chinese Mainland SMS)**.

A general template has a general signature. All signatures of the same service type under the same application can use a general template. Verification code and notification SMSs can use a general template.

Featu re	SMS Application	SMS Signature	SMS Template	Example
Maxi mum quant ity	2	By default, a maximum of 200 signatures can be created for each application. To increase the quota, submit a service ticket or contact the account manager.	By default, a maximum of 2,000 templates can be created for each application. To increase the quota, submit a service ticket or contact the account manager.	 By default, a maximum of two Chinese mainland SMS applications can be created, for example, sms_app_01 and sms_app_02. Signature examples: Signature_A1,, and Signature_An. Template examples: Template_A1,, and Template_An.
Servic e type	Chinese mainland SMS application	 Verification code Notification A signature type must be specified for each signature. 	 Verification code Notification A template type must be specified for each template. 	A signature must match the service type of the template. Examples: Correct: Template_An and Signature_A2/ Signature_An Incorrect: Template_An and Signature_A1

Featu	SMS	SMS	SMS	Example
re	Application	Signature	Template	
Resou rce restric tions	 Resources of the Chinese mainland SMS application and internation al SMS application are independe nt of each other and cannot be shared. Resources of the two Chinese mainland SMS application s are independe nt of each other and cannot be shared. 	Each signature belongs to an application and can only be used with the application.	Each template belongs to an application and can only be used with the application . Each template belongs to a signature and can only be used with the signature.	A signature and a template must match their application. Examples: Correct: sms_app_01 + Signature_A1 + Template_A1 Incorrect: sms_app_01 + Signature_B1 + Template_B1 A signature (to which a template belongs) must match its application. Examples: Correct: sms_app_01 + Signature_A1 + Template_A2 Incorrect: sms_app_01 + Signature_A2 + Template_A2 Template_A2



3.2 Creating an SMS Application

3.2.1 Chinese Mainland SMS Application

Overview

SMS applications carry out functions for the Huawei Cloud Message & SMS service. After you added an application, the system automatically allocates a unique application key and application secret and provides you with an application access address. The application key and application secret uniquely identify a user. They are carried for authentication and authorization during SMS API calling.

Notes

 You can create an application only after your account is bound to a credit card. No application can be added if your Huawei Cloud account balance is

- insufficient. In this case, top up your account by following instructions provided in **Topping Up an Account**. If you have topped up your account and the application cannot be added, log out and log in to the system again.
- International SMS applications are different from Chinese mainland SMS applications. You need to add each type of applications separately. A maximum of two international SMS applications can be added. To add more applications, submit a service ticket.
- A created application cannot be deleted. You can modify the application name, uplink SMS destination, SMS status report destination, and IP whitelist, and update application secrets as needed.
- For details about the browsers supported by the Message & SMS console, see
 Which Browsers Are Supported?

Creating an Application

- Log in to the Message & SMS console. In the navigation pane, choose Chinese Mainland SMS > Application Management.
- 2. Click **Add Application** in the upper right corner. For details about how to create an application, see **Table 3-1**.

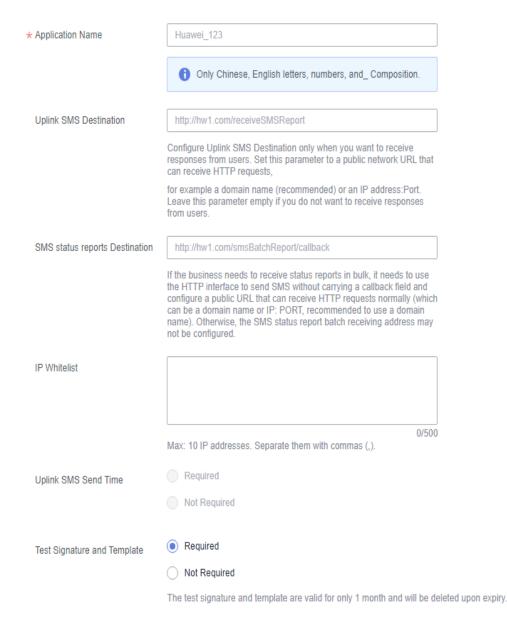


Table 3-1 Adding an application

Paramete r	Description
Applicatio n Name	Customize a name. The value can contain a maximum of 30 characters, including letters, digits, and special characters (!@\$ %^=+[{}]:,./?~#*;). The application name is used only for internal display and is irrelevant to the external API calls.

Paramete r	Description
Uplink SMS Destinatio n	Address used to receive SMS replies from recipients. Message & SMS uses this address to notify the platform user of SMS replies. If you want to receive and process SMS replies, configure a public network URL (domain name or <i>IP address.Port number</i>) that can receive HTTP requests. A domain name is recommended. If SMS replies are not required, you do not need to specify this parameter.
SMS status reports Destinatio n	If the service party needs to receive status reports in batches, do not carry the callback field in the HTTP message delivery request, and configure a public network URL that can receive HTTP requests. The URL can be a domain name (recommended) or IP address:Port number. If this function is not required, you do not need to set this item.
IP Whitelist	Set this parameter based on the service requirements. You can configure up to 10 IP addresses for an application. Use commas (,) to separate IP addresses. It takes about 10 to 15 minutes for the IP whitelist to take effect. After the IP whitelist is successfully configured, the connection to the Message & SMS can be set up.
Uplink SMS Send Time	UTC time when the platform receives an uplink SMS from a recipient. This parameter is available only when Uplink SMS Destination is specified. If you select Required , add the createTime parameter when calling the uplink SMS receiving API. Message & SMS will notify the platform user of the time when a recipient replies to the SMS based on the address for receiving uplink SMSs.
Test Signature and Template	If you select Required , the system automatically creates an associated test signature and template for quick commissioning.

3. Click **OK**.

Managing an Application

After an application is created, choose **Chinese Mainland SMS** > **Application Management** to view application information.

Table 3-2 Application information

Parameter	Description
Application Name	Corresponds to Application Name in Table 3-1 .

Parameter	Description
Application Primary Key ID	It is unique and is used to obtain and modify the application.
Application Key	Uniquely identifies a user. It is carried for authentication and authorization during SMS API calling. For details, see Development Preparation (Chinese Mainland SMS).
Application Secret	Uniquely identifies a user. It is carried for authentication and authorization during SMS API calling. For details, see Development Preparation (Chinese Mainland SMS). To view or update an application secret, enter the verification code and click OK. CAUTION If you sent SMSs before updating an application secret, wait for 15 minutes for the new application secret to take effect. If you did not send SMSs before updating an application secret, the new application secret takes effect immediately.
Application Access Address	The application access address and access URI form an SMS API request address, which is used to call Message & SMS APIs.
Uplink SMS Destination	Corresponds to Uplink SMS Destination in Table 3-1 .
Uplink SMS Send Time	Corresponds to Uplink SMS Send Time in Table 3-1 .
Status	 Normal: The application is successfully added and can be used properly. Paused: 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.
Created	Specifies the time when the application was created.
Operation	Applications can be modified, paused, and resumed.
	 The reply time for receiving uplink SMS responses cannot be changed. For a paused application, the following configuration items cannot be changed: Uplink SMS Destination, IP Whitelist, and Uplink SMS Send Time. Currently, SMS applications cannot be deleted. For details, see Can I Delete an SMS Application.

3.2.2 International SMS application

Overview

SMS applications carry out functions for the Huawei Cloud Message & SMS service. After you added an application, the system automatically allocates a unique application key and application secret and provides you with an application access address. The application key and application secret uniquely identify a user. They are carried for authentication and authorization during SMS API calling.

Notes

- You can create an application only after your account is bound to a credit card. No application can be added if your Huawei Cloud account balance is insufficient. In this case, top up your account by following instructions provided in **Topping Up an Account**. If you have topped up your account and the application cannot be added, log out and log in to the system again.
- International SMS applications are different from Chinese mainland SMS applications. You need to add each type of applications separately. A maximum of two international SMS applications can be added. To add more applications, submit a service ticket.
- A created application cannot be deleted. You can modify the application name, SMS status report destination, and IP whitelist, and update application secrets as needed.
- For details about the browsers supported by the Message & SMS console, see
 Which Browsers Are Supported?

Creating an Application

- Log in to the Message & SMS console. In the navigation pane, choose International SMS > Application Management.
- Click Add Application in the upper right corner. For details about how to create an application, see Table 3-3.

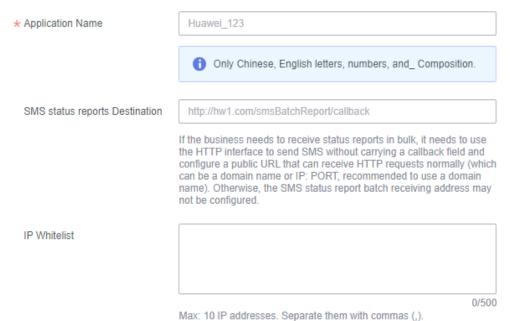


Table 3-3 Adding an application

Paramete r	Description
Applicatio n Name	Customize a name. The value can contain a maximum of 30 characters, including letters, digits, and underscores (_). The application name is used only for internal display and is irrelevant to the external API calls.
SMS status reports Destinatio n	If the service party needs to receive status reports in batches, do not carry the callback field in the HTTP message delivery request, and configure a public network URL that can receive HTTP requests. The URL can be a domain name (recommended) or IP address:Port number. If this function is not required, you do not need to set this item.
IP Whitelist	Set this parameter based on the service requirements. You can configure up to 10 IP addresses for an application. Use commas (,) to separate IP addresses. It takes about 10 to 15 minutes for the IP whitelist to take effect. After the IP whitelist is successfully configured, the connection to the Message & SMS can be set up.

3. Click OK.

Managing an Application

After an application is created, choose **International SMS** > **Application Management** to view application information.

Table 3-4 Application information

Parameter	Description
Application Name	Corresponds to Application Name in Table 3-3 .
Application Primary Key ID	It is unique and is used to obtain and modify the application.
Application Key	Uniquely identifies a user. It is carried for authentication and authorization during SMS API calling. For details, see Development Preparation (International SMS) .

Parameter	Description
Application Secret	Uniquely identifies a user. It is carried for authentication and authorization during SMS API calling. For details, see Development Preparation (International SMS) .
	To view or update an application secret, enter the verification code and click OK .
	CAUTION If you sent SMSs before updating an application secret, wait for 15 minutes for the new application secret to take effect. If you did not send SMSs before updating an application secret, the new application secret takes effect immediately.
Application Access Address	The application access address and access URI form an SMS API request address, which is used to call Message & SMS APIs.
Channel No.	Allocated by Huawei and used only for API calling. For details, see Development Preparation (International SMS) .
Status	Normal: The application is successfully added and can be used properly.
	Paused: 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.
Created	Specifies the time when the application was created.
Operation	 Applications can be modified, paused, and resumed. Currently, SMS applications cannot be deleted. For details, see Can I Delete an SMS Application.

3.3 Applying for an SMS Signature

3.3.1 Chinese Mainland SMS Signature

Overview

An SMS signature indicates the official sources of any SMS it is attached to. It is created based on the user identity and requires various used details to create. The signature must be approved before it can be used.

For example, in the SMS "[Huawei Cloud] Your verification code is 123456 (valid within 5 minutes). To ensure your account security, do not provide this verification code for anyone." [Huawei Cloud] is an SMS signature.

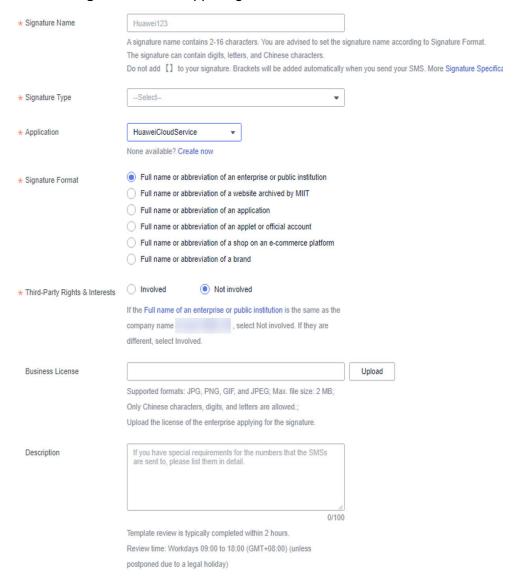
Notes

 No signature can be added if your Huawei Cloud account balance is insufficient. In this case, top up your account by following instructions

- provided in **Topping Up an Account**. If you have topped up your account and the signature cannot be added, log out and log in to the system again.
- Only Chinese mainland SMSs require SMS signatures. By default, a maximum
 of 200 signatures can be created for each application. To increase the quota,
 submit a service ticket or contact the account manager. For details about
 signature rules, see Chinese Mainland SMS Signature Rules.
- Only rejected SMS signatures can be modified. You can add a signature and submit it for approval.
- Signatures with the same name and type cannot be repeatedly added for the same account.
- For details about the browsers supported by the Message & SMS console, see
 Which Browsers Are Supported?

Creating a Signature

- Log in to the Message & SMS console. In the navigation pane, choose Chinese Mainland SMS > Signature Management.
- Click Add Signature in the upper right corner.



 Signature Name: The signature name must be associated with Signature Format to identify a signature user. For details, see Content Specifications.

Signature Format	Entity Name	Signature Name Example
Full name or abbreviation of an enterprise or public institution	Huawei Cloud	Huawei
Full name or abbreviation of a website archived by MIIT	Website domain name: huaweicloud.com Website name: Huawei Cloud	Huawei Cloud
Full name or abbreviation of an application	VMALL	VMALL
Full name or abbreviation of an applet or official account	VMALL	VMALL
Full name or abbreviation of a shop on an e- commerce platform	VMALL	VMALL
Full name or abbreviation of a brand	Huawei Cloud	Huawei Cloud

Signature Type: The signature type must be the same as the SMS message type. The system assigns different channel number resources for each signature type. For details, see SMS signature and Can SMS Signatures Have the Same Name But Different Types?

Verification Code	Verification code SMSs are used for registration, login, transfer, and password retrieval.
Notificatio n	Notification SMSs are used for express delivery notifications, consumption notifications, and instant reminders.

- Application: The first Chinese mainland SMS application is selected by default. To change the application, select another SMS application from the drop-down list box. For details, see Can I Create Duplicate SMS Signatures Under the Same or Different Applications?
- **Signature Format**: Select a proper signature source based on the signature name. Ensure that the submitted signature application

materials can prove the validity of the signature name. For details, see **Signature Application Materials**.

- Website Domain Name: This parameter is available only when Full name or abbreviation of a website archived by MIIT is selected for Signature Format.
- App Download URL: This parameter is available only when Full name or abbreviation of an application is selected for Signature Format.
- Full name of an applet or official account: This parameter is available only when Full name or abbreviation of an applet or official account is selected for Signature Format.
- e-Shop URL: This parameter is available only when Full name or abbreviation of a shop on an e-commerce platform is selected for Signature Format.
- Third-Party Rights & Interests: Set this parameter based on instructions.
 If you need to change the real-name authentication information, see
 Overall Process. For details, see Third-Party Rights & Interests.

Power of Attorney: Upload a power of attorney (POA) only when **Third-Party Rights & Interests** is set to **Involved**. Click **Download template** to obtain the POA template and fill in the template.

- Business License: Upload a scanned copy of the business license for which a signature is applied. For example, if company A applies for a signature for itself, the scanned copy of A's business license should be uploaded. If company A applies for a signature for company B, the scanned copy of B's business license should be uploaded.
- Description: If you have special requirements for the numbers used to send SMSs, such as dedicated channels for the tri-network of China Mobile, China Telecom, China Unicom as well as China Broadnet (newly supported), fixed-line numbers, and fixed extended number, list them in detail.

Click OK.

SMS signatures will be reviewed within 2 hours on workdays. If there is a legal holiday, the review may be postponed. SMS signatures must be approved before they can be used. If you have any questions, contact Huawei Cloud customer service. For details, see **How Long Does It Take to Review a Signature?**

After an SMS signature is created, you can check the review status on the **Signature Management** page. Signature status is described as follows:



"\" indicates that the operation is supported, and "-" indicates that the operation is not supported. For details, see **How Do I Modify an SMS Signature?** and **How Do I Delete an SMS Signature?**

Signature Status	Mod ifica tion	Dele tion	Activ atio n	Description
Pending	-	√	-	The signature application has been submitted and is to be reviewed by the operation manager.
Processing	-	√	-	The signature application is approved, and the channel ID is being configured.
Rejected	√	√	-	The signature is rejected because it does not comply with the Chinese mainland SMS signature rules. Solve the issue based on the cause in the review comments. For details, see Signature Review Description.
Completed	-	√	-	The signature application is approved, and the channel ID is delivered. The signature can be used.
				When you delete a completed signature, the channel ID and all SMS templates under the signature are deleted. Exercise caution when deleting a signature.
Deactivated	-	√	√	The signature needs to be activated because the account is in arrears and the retention period has expired.
Reviewing	-	√	-	The application for activating the signature has been submitted and is to be reviewed by the operation manager.

3.4 Applying for an SMS Template

3.4.1 Chinese Mainland SMS Template

Overview

An SMS template is a content template used to send SMSs. It consists of fixed text or fixed text plus variables. After a template is created, only variables can be replaced by characters that meet requirements.

Notes

• No template can be added if your Huawei Cloud account balance is insufficient. In this case, top up your account by following instructions provided in **Topping Up an Account**. If you have topped up your account and the template cannot be added, log out and log in to the system again.

- By default, a maximum of 2,000 templates can be created for each application. To increase the quota, submit a service ticket or contact the account manager. For details about template rules and variable usage rules, see Template and Variable Specifications.
- Only rejected SMS templates can be modified. You can add a template and submit it for approval.
- For details about the browsers supported by the Message & SMS console, see
 Which Browsers Are Supported?

Creating a Template

- Log in to the Message & SMS console. In the navigation pane, choose Chinese Mainland SMS > Template Management.
- 2. You can create a template in either of the following ways:
 - Adding a template:

Click **Add Template** in the upper right corner and configure parameters by referring to **Table 3-5** to create a template. Click **OK**.

∩ NOTE

Set **Template Type**, **Application**, and **Signature** in sequence. If the message "None available" is displayed when you select a signature, select a template type and an application.

- Importing templates in batches:
 - i. Click **Download Sample Template** in the upper right corner to download the Excel template and fill in the template by referring to **Table 3-5**. You can create multiple templates at a time.
 - ii. Click **Batch Import** in the upper right corner to import the filled template.
 - iii. After the template is imported, the template data to be reviewed is displayed on the console. If the template fails to be imported due to invalid content format, a dialog box will be displayed for you to download the failed records. Then, you can modify the template content and import it again.



The parameters marked with * in the table are mandatory. Fill in the template by referring to **Table 3-5** to prevent upload failures. Up to 50 records can be imported at a time. **Templates with variables cannot be imported** currently.

Add Template * Template Name Enter a name with a maximum of 30 characters. * Template Type * Application None available? Add now * Signature None available? Add now * Template Content Variable format: \${1},\${2}...\${20} Example: Verification code: \${1}. Valid for 5 minutes. Don't share it with anyone else. 0/500 Characters: 0 Segments: 0 Rules for Calculating SMS Length In a verification code template, only the verification code can be set as a variable. The content must contain either a verification code, registration code, or other dynamic code. An unsubscription method must be provided for promotional templates. Users can text TD, T, or N for SMS unsubscription. To avoid template review failures, see Template and Variable Specifications and Template Examples Description Describe how you are using your service. 0/100 Template review is typically completed within 2 hours. Review time: Workdays 09:00 to 18:00 (GMT+08:00) (unless postponed due to a legal holiday)

Figure 3-1 Adding a Chinese mainland SMS template

Table 3-5 Adding a template/Importing templates in batches

Para mete r	Description
*Tem plate Nam e	Set this parameter based on the service requirements and template types. Examples: ClientLogin_VerificationCodeSMS_01 and MeetingScheduling_NotificationSMS_01.
*Tem plate Type	The template type must be the same as the type of the SMSs to be sent to recipients. The template type you set determines available options in the Signature drop-down list. For details, see Overview . • Verification code SMSs are used for registration, login, transfer, and password retrieval.
	 Notification SMSs are used for express delivery notifications, consumption notifications, and instant reminders.
*Appl icatio n	Set this parameter based on the service requirements. The application you set determines available options in the Signature drop-down list.
*Sign ature	Set this parameter based on the service requirements. The signature is added to the beginning of the template content. Only the signature that has been approved can be added.
	 Use a general signature when more than two signatures of the same type use the same template. To use a general signature, set Signature to General signature. For details, see How Do I Use a General SMS Template? (Chinese Mainland SMS)
	 If the Signature drop-down list is empty after you set Template Type and Application, no signature of the same type as the template type is available. In this case, apply for an SMS signature or modify the value of Application. The new signature is available in the Signature drop-down list only after it is approved.
*Tem plate Cont ent	Enter the content to be sent by referring to Sample Template or Template and Variable Specifications. Use variables properly for approval. Currently, batch import does not support variables. Do not include an SMS signature name in template content for the Chinese mainland SMS service.
Descr iptio n	Describe the situation where SMSs are used. For example, verification code SMSs are used to verify users for login, and notification SMSs are used to notify participants of a meeting.

A template can be used only after being approved. SMS templates submitted during 09:00–18:00 (GMT+08:00) on workdays will be reviewed within 2 hours. SMS signatures submitted after 18:00 (GMT+08:00) will be reviewed on the next workday. The review is performed only on workdays. If there is a legal holiday, the review may be postponed.

Managing a Template

After the template is created, choose **Chinese Mainland SMS** > **Template Management** to view the template review status and other information.

Table 3-6 Template information

Parameter	Description	
Template Name	Corresponds to Template Name in Table 3-5 .	
Template primary key ID	It is unique and is used to obtain, modify, and delete the template and query template variables.	
Template ID	Uniquely identifies an SMS template. When you call Message & SMS APIs to send SMSs, the template ID is used to specify the template content to be sent. For details, see Development Preparation (Chinese Mainland SMS) .	
Application	Corresponds to Application in Table 3-5 .	
Signature	Corresponds to Signature in Table 3-5 .	
Template Type	Corresponds to Template Type in Table 3-5 .	
Created	Specifies the time when the template was created.	
Status	Pending: The template application has been submitted and is to be reviewed by the operation manager.	
	• Signature unreviewed : The signature of the template is to be reviewed. Ensure that the signature is approved.	
	Approved, activated: The template is approved and the template ID is delivered. The template can be used.	
	Approved, deactivated: The template is approved and the template ID is delivered, but the template is not activated and cannot be used.	
	Rejected: The template is rejected because it does not comply with Template and Variable Specifications. Solve the issue based on the cause in the review comments. For details, see Template Review Description.	
Reviewer Comments	If a template is rejected, the platform provides detailed reasons here.	
Operation	Modify: Only templates in the Rejected status can be modified.	
	Delete: A template in the Approved, activated, Approved, deactivated, or Rejected status can be deleted.	

3.4.2 International SMS Template

Overview

An SMS template is a content template used to send SMSs. It consists of fixed text or fixed text plus variables. After a template is created, only variables can be replaced by characters that meet requirements.

Notes

- No template can be added if your Huawei Cloud account balance is insufficient. In this case, top up your account by following instructions provided in Topping Up an Account. If you have topped up your account and the template cannot be added, log out and log in to the system again.
- By default, a maximum of 2,000 templates can be created for each application. To increase the quota, **submit a service ticket** or contact the account manager. For details about template rules and variable usage rules, see **Template and Variable Specifications**.
- Only rejected SMS templates can be modified. You can add a template and submit it for approval.
- For details about the browsers supported by the Message & SMS console, see
 Which Browsers Are Supported?

Creating a Template

- Log in to the Message & SMS console. In the navigation pane, choose International SMS > Template Management.
- 2. You can create a template in either of the following ways:
 - Adding a template:
 - Click **Add Template** in the upper right corner and configure parameters by referring to **Table 3-7** to create a template. Click **OK**.
 - Importing templates in batches:
 - i. Click **Download Sample Template** in the upper right corner to download the Excel template and fill in the template by referring to **Table 3-7**. You can create multiple templates at a time.
 - ii. Click **Batch Import** in the upper right corner to import the filled template.
 - iii. After the template is imported, the template data to be reviewed is displayed on the console. If the template fails to be imported due to invalid content format, a dialog box will be displayed for you to download the failed records. Then, you can modify the template content and import it again.

□ NOTE

The parameters marked with * in the table are mandatory. Fill in the template by referring to Table 3-7 to prevent upload failures. Up to 50 records can be imported at a time. Templates with variables cannot be imported currently.

Add Template * Template Name Enter a name with a maximum of 30 characters. * Application None available? Add now $\label{lem:condition} \begin{tabular}{ll} Wariable format: $\{1\},$\{2\}...$\{20\} \\ Example: Verification code: $\{1\}. Valid for 5 minutes. Don't share it with $\{1\},$\{2\}, $$ * Template Content anyone else. 0/500 Characters:0 Segments: 0 Rules for Calculating SMS Length In a verification code template, only the verification code can be set as a variable. The content must contain either a verification code, registration code, or other dynamic code. An unsubscription method must be provided for promotional templates. Users can text TD, T, or N for SMS unsubscription. To avoid template review failures, see Template and Variable Specifications and Template Examples . * Sent to (country/region 1) If SMS messages are to be sent to more than three countries/regions, specify other country/region names in Description. Sent to (country/region 2) Sent to (country/region 3) Description Describe how you are using your service. 0/100 Template review is typically completed within 2 hours.
Review time: Workdays 09:00 to 18:00 (GMT+08:00) (unless postponed due to a legal holiday)

Figure 3-2 Adding an international SMS template

Table 3-7 Adding a template/Importing templates in batches

Para mete r	Description
*Tem plate Nam e	Set this parameter based on the service requirements and template types. Examples: ClientLogin_VerificationCodeSMS_01 and MeetingScheduling_NotificationSMS_01. For details, see Overview.
*Appl icatio n	Set this parameter based on the service requirements.
*Tem plate Cont ent	Enter the content to be sent by referring to Sample Template or Template and Variable Specifications . Use variables properly for approval. Currently, batch import does not support variables.
*Sent to (cou ntry/ regio n 1) Sent to (cou ntry/ regio n 2) Sent to (cou ntry/ regio n 3)	 Specify at least one country or region based on your service scope. If SMSs are sent to more than three countries or regions, add them in the Description text box. If SMSs are sent globally, select at least one major country or region and enter "The SMS service is globally deployed, not distinguishing major sending countries or regions." in the Description text box. This parameter is used only for survey. To restrict the sending countries (or regions), see Region Settings. For details, see Querying the Country or Region to Which SMSs Are Sent.
Descr iptio n	Describe the situation where SMSs are used. For example, verification code SMSs are used to verify users for login, and notification SMSs are used to notify participants of a meeting.

3. A template can be used only after being approved. SMS templates submitted during 09:00–18:00 (GMT+08:00) on workdays will be reviewed within 2 hours. SMS signatures submitted after 18:00 (GMT+08:00) will be reviewed on the next workday. The review is performed only on workdays. If there is a legal holiday, the review may be postponed.

Managing a Template

After the template is created, choose **International SMS** > **Template Management** to view the template review status and other information.

Table 3-8 Template information

Parameter	Description
Template Name	Corresponds to Template Name in Table 3-7 .
Template primary key 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 ID	Uniquely identifies an SMS template. When you call Message & SMS APIs to send SMSs, the template ID is used to specify the template content to be sent. For details, see Development Preparation (International SMS) .
Application	Corresponds to Application in Table 3-7 .
Template Type	Corresponds to Template Type in Table 3-7 .
Created	Specifies the time when the template was created.
Status	Pending: The template application has been submitted and is to be reviewed by the operation manager.
	• Signature unreviewed : The signature of the template is to be reviewed. Ensure that the signature is approved.
	Approved, activated: The template is approved and the template ID is delivered. The template can be used.
	Approved, deactivated: The template is approved and the template ID is delivered, but the template is not activated and cannot be used.
	Rejected: The template is rejected because it does not comply with Template and Variable Specifications. Solve the issue based on the cause in the review comments. For details, see Template Review Description.
Reviewer Comments	If a template is rejected, the platform provides detailed reasons here.
Operation	Modify: Only templates in the Rejected status can be modified.
	Delete: A template in the Approved, activated, Approved, deactivated, or Rejected status can be deleted.

3.5 Using Group SMS Assistant

Group SMS Assistant is used to send SMSs in batches without code development. You can use Group SMS Assistant to create a scheduled task, enabling the system to send SMSs at a scheduled time within one month. The scheduled task can be canceled. However, Group SMS Assistant does not support sending SMSs periodically.

Notes

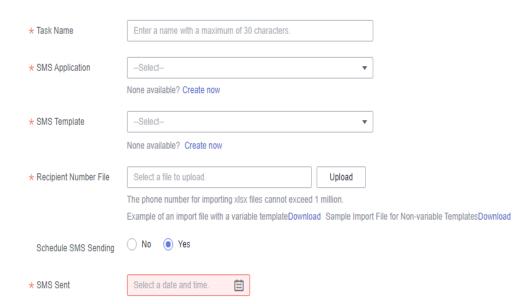
- Max. numbers in a batch sending task: 1 million. Supported file: XLSX file with size up to 12 MB.
- The system charges the SMS that has been sent based on the SMS service type. For details, see **Billing Mode**.
- For details about the browsers supported by the Message & SMS console, see
 Which Browsers Are Supported?

Prerequisites

- You have created an SMS application.
- (Chinese mainland SMS only) You have an SMS signature that has been approved and configured with a channel number.
- You have an approved and activated SMS template.
- Applications, signatures, and templates are associated. For details, see Resource Introduction.

Creating a Sending Task

- Log in to the Message & SMS console. In the navigation pane, choose Group SMS Assistant > Task Management.
- 2. Click Create Task in the upper right corner.
- 3. On the displayed page, set the parameters as prompted.



Paramete r	Description
Task Name	Set this parameter based on the service requirements and SMS types. For example, International SMS_Service Notification_01 .

Paramete r	Description
SMS Applicatio n	Select an international SMS or Chinese Mainland SMS application based on service requirements. The SMS Application setting determines values available in the SMS Signature and SMS Template drop-down lists.
SMS Signature	This parameter must be specified for a Chinese mainland SMS application. Select an SMS signature that is associated with the SMS application. The setting of SMS Signature determines values available in the SMS Template drop-down list. For details, see Why an SMS Signature and an SMS Template Cannot Be Selected in the Group SMS Assistant?
SMS Template	Select an SMS template that is associated with the SMS application. For Chinese mainland SMSs, the template must belong to the selected SMS signature or universal signature. For details, see Why an SMS Signature and an SMS Template Cannot Be Selected in the Group SMS Assistant?
Recipient Number File	Click Download to download a template (with or without variables). Add recipient numbers to the file as instructed, and upload the file. NOTE Max. numbers in a template file: 1 million. Max. file size: 12 MB. File name: Only digits and letters are allowed. To prevent numbers from being displayed abnormally, set cells to the text format, or copy the sample cells, paste and modify them. For Chinese mainland SMSs: If the recipient number is a Chinese mainland mobile number, the number does not need to be prefixed with the country code +86. Other numbers must be in the +{CC}{NDC}{SN} format, for example, +8613112345678. All recipient numbers to which international SMSs are sent must be in the +{CC}{NDC}{SN} format, for example, +2412000000 (a Gabon number). • {CC} indicates the country code. • {NDC} indicates the region code. If the called number is a mobile number, {NDC} is optional.
Schedule SMS Sending	(Optional) Select Yes if you want to send SMSs at a scheduled time.
SMS Sent	This parameter specifies the date and time when an SMS is sent. Set this parameter only when Schedule SMS Sending is set to Yes . You are advised to send scheduled SMSs between 08:00 and 22:00 every day. Sending SMSs at other time may incur user complaints.

4. Click **OK**.

The system checks the imported recipient numbers as follows:

Chec k Item	Matching Rule	Solution	Example
Num ber norm alizat ion	The number consists of 11 digits and starts with 1.	Prefix the number with +86 .	131****5678 -> +86 131****5678
	The number consists of 13 digits and starts with 86.	Prefix the number with a plus sign (+).	86131****5678 -> +86131****5678
	The number consists of neither 11 nor 13 digits and does not start with a plus sign (+).	The system considers them invalid, deletes them from the number list, and records the quantity of such numbers.	231****5678 -> Delete 131****567 -> Delete 1234****56789 -> Delete 86131****567 -> Delete
Num ber dedu plicat ion	Check whether duplicate numbers exist after number normalization.	Delete deduplicate numbers and record the quantity of such numbers.	Only one duplicate number is reserved.

- If the message "Submission request failed. The recipient number file includes invalid phone numbers." is displayed, check the recipient number file, enter valid numbers, and upload it again.
- If a message "X phone number(s) imported. Redundant and invalid numbers have been deleted. You will not be charged for the Y message(s) deleted." is displayed, check the recipient number file for whether invalid numbers exist, create a task again for modified numbers.
- 5. After the sending task is submitted successfully, click **View** in the **Operation** column of the task to view the sending result. The sending result is displayed in about 3 minutes. To view the real-time result, refresh the page.

After the sending task is submitted successfully, click **Copy** in the **Operation** column of the task to create a task with the same configuration. The imported recipient number file is not copied. You need to import the file again. In this way, you can quickly create a sending task.

Viewing Task Details

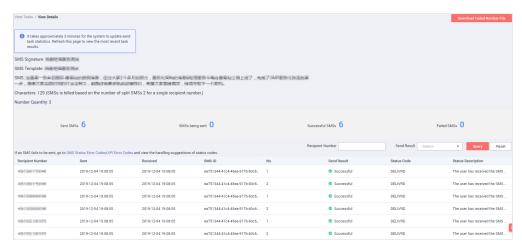
- Log in to the Message & SMS console. In the navigation pane, choose Group SMS Assistant > Task Management, and filter tasks by task name and status. Click View in the Operation column of the task. The task details page is displayed.
- 2. Filter sending details by recipient number and sending result to view sending details of specific numbers.



" $\sqrt{}$ " indicates that the operation is supported, and "-" indicates that the operation is not supported.

Status	Viewi ng	Cancel ing	Deleti ng	Description
Pending	√	√	-	Click Cancel Task to cancel a scheduled task to be executed.
				Cancel a scheduled task at least 5 minutes before the scheduled SMS sending time. The task cannot be canceled if it is about to be executed within 5 minutes.
				 If a scheduled task is not executed within 24 hours, it is automatically canceled.
Cancele d	√	-	√	Click Delete Task to remove a canceled task from the system. To resend the SMS, submit the sending task again.
Executin g	√	-	-	The sending task is being processed. Some recipient numbers do not return the SMS status in time due to errors (such as mobile phone power-off/suspension, poor signal, and unallocated number).
				Click View Details, select the number whose Send Result is Sending, and dial the number to check whether the mobile phone is in normal state.
Complet ed	√	-	-	The sending task is processed, and the SMS status reports of all recipient numbers are returned.

3. View information about sending SMSs, such as number quantity, receipt time, SMS ID, and sending result.



- A long SMS will be segmented to multiple records with the same SMS ID.
 For details about how an SMS is segmented, see SMS Sending Rules.
- Click Download Failed Number File to obtain a file containing all numbers to which SMSs fail to be sent. Only the numbers whose sending tasks fail in the latest three days can be exported. Such numbers before three days cannot be exported.
- If Send Result is Sending, the SMS gateway does not send a sending status report. Wait for a period of time and check the sending status again. For details, see Why Send Result Is Displayed as Sending or the SMS Is Received After a Long Time?
- If Send Result is Failed, click SMS Status Error Codes to query the error based on the status code.

3.6 Viewing Statistics (New Version)

3.6.1 Chinese Mainland SMS Statistics

Overview

Message & SMS allows you to view and export Chinese mainland SMS statistics.

Viewing Statistics

- Log in to the Message & SMS console and choose Statistics > Chinese Mainland SMS.
- 2. Add filters.

Filter Criter ia	Description
Applic ation	You can query statistics within a specified period based on SMS applications.
Signa ture	You can query statistics by filtering signatures.

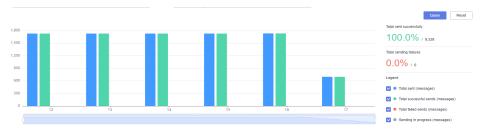
Filter Criter ia	Description
SMS Type	You can query statistics by filtering SMS types.
Templ ate	You can query statistics by filtering templates.
Rang e	You can quickly filter and view the statistics of the last half year as well as query data of 31 consecutive days.
	CAUTION When you query the data of one day, statistics are displayed by hour. When you query the data of more than one day, statistics are displayed by day.

3. View statistics details.

View the statistics through a chart.

Statistics are displayed by hour or day based on the filter criteria. Data can be displayed in bar charts or line charts. The statistics area on the right displays the total number of successful sending times, number of failed sending times, and their proportions.

Select or deselect the check boxes on the right to determine the data displayed on the chart.



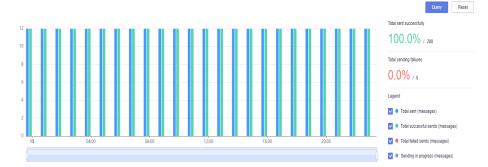
View the total statistics items and export the data.



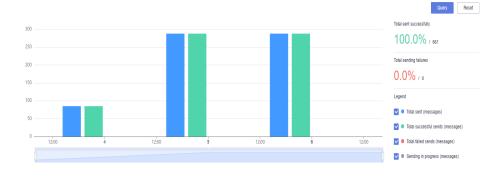
Item	Description	
Total submit	Total number of submitted SMSs that meet the filter criteria you set in 2.	
Total sent successfully	Total number of successfully sent SMSs that meet the filter criteria you set in 2.	
Total sending failures	Total number of SMSs that failed to be sent and meet the filter criteria you set in 2, excluding those failed due to terminal errors.	
Terminal Errors	Number of SMSs that failed to be sent due to terminal errors and meet the filter criteria you set in 2.	

Item	Description	
Total Sending	Total number of SMSs that are being sent and meet the filter criteria you set in 2.	
Valid Success Rate	Valid success rate = Total sent successfully/(Total sent – Total Sending – Terminal Errors)	
Sending success rate	Sending success rate = Total sent successfully/Total sent	
Export	Click to export the total statistics.	

The platform collects statistics on SMSs by hour or day.
 In the following figure, SMS statistics are displayed by hour.



In the following figure, SMS statistics are displayed by day.



MOTE

You can click **view failure** to view failure records and rectify the fault based on the sending results, status codes, and **status error codes**.

3.6.2 International SMS Statistics

Overview

Message & SMS allows you to view and export international SMS statistics.

Viewing Statistics

- Log in to the Message & SMS console. In the navigation pane, choose Statistics > International SMS.
- 2. Add filters.

Filter Criteri a	Description
Count ry/ Regio n	You can query statistics based on the specified country or region names.
Applic ation	You can query statistics by filtering applications.
SMS Type	You can query statistics by filtering SMS types.
Templ ate	You can query statistics by filtering templates.
Range	You can quickly filter and view the statistics of the last half year as well as query data of 31 consecutive days. NOTE
	When you query the data of one day, statistics are displayed by hour. When you query the data of more than one day, statistics are displayed by day.

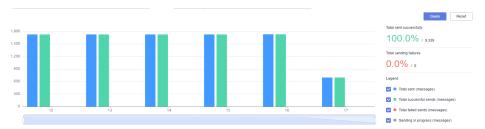
3. View statistics details.

- View the statistics through a chart.

Statistics are displayed by hour or day based on the filter criteria. Data can be displayed in bar charts or line charts. The statistics area on the right displays the total number of successful sending times, number of failed sending times, and their proportions.

■ NOTE

Select or deselect the check boxes on the right to determine the data displayed on the chart.

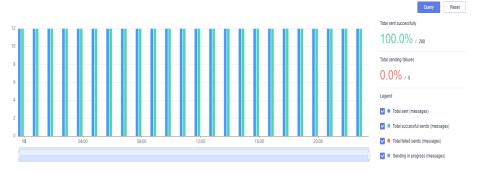


View the total statistics items and export the data.

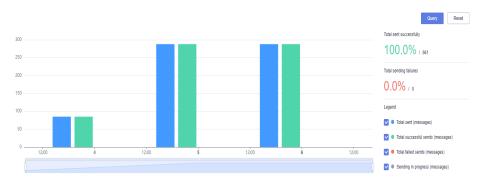


Item	Description	
Total submit	Total number of submitted SMSs that meet the filter criteria you set in 2.	
Total submitted	Total number of successfully submitted SMSs that meet the filter criteria you set in 2.	
Total submission	Total number of SMSs that fail to be submitted and meet the filter criteria you set in 2.	
failures	If an SMS fails to be submitted in either of the following ways, it is not charged.	
	 API or Group SMS Assistant calling fails. For details, see API Error Codes. 	
	 status (or status code) returned is an error code of the Huawei platform. View all SMS Status Error Codes. (SMSs with status error codes from the Huawei platform are not charged.) 	
Submission success rate	Submission success rate = Total submitted/Total submit	
Total sent successfully	Total number of successfully sent SMSs that meet the filter criteria you set in 2. You are billed for successfully sent SMSs.	
Total sending	Total number of SMSs that failed to be sent and meet the filter criteria you set in 2 .	
failures	If status (or status code) returned is an error code of the supplier platform , you will be billed for SMSs that failed to be sent.	
Sending success rate	Sending success rate = Total sent successfully/Total submit	
Export	Click to export the total statistics.	

The platform collects statistics on SMSs by hour or day.
 In the following figure, SMS statistics are displayed by hour.



In the following figure, SMS statistics are displayed by day.



Ⅲ NOTE

You can click **view failure** to view failure records and rectify the fault based on the sending results, status codes, and **status error codes**.

3.7 Viewing Statistics (Old Version)

3.7.1 Chinese Mainland SMS Statistics

Overview

Message & SMS allows you to view and export Chinese mainland SMS statistics.

Notes

Currently, statistics on promotional SMSs cannot be viewed.

Viewing Statistics

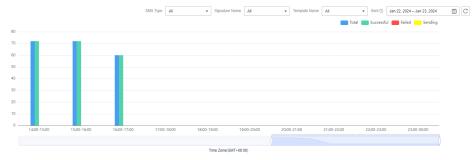
- Log in to the Message & SMS console. In the navigation pane, choose Statistics > Chinese Mainland SMS.
- 2. Add filters.

Filter Criter ia	Description
SMS Type	You can specify SMS Type and Sent to get statistics about SMSs of a certain type (verification code or notification SMS) sent in the specified time range.
Signa ture Name	You can specify Signature Name and Sent to get statistics about SMSs using the specified signature or Unknown signature sent in the specified time range.
Templ ate Name	You can specify Template Name and Sent to get statistics about SMSs using the specified template and sent in the specified time range.

Filter Criter ia	Description
Sent	You can quickly view statistics of yesterday, this month, and the last month as well as query data of 31 consecutive days.
	CAUTION If you query data of one day, statistical data is displayed by hour. If you query data of more than one day, statistical data is displayed by day.

3. View statistics details.

- Graph: Statistics are displayed by hour or day based on the filter criteria.



View the total statistics items and export the data.

Item	Description
Total submit	Total number of submitted SMSs that meet the filter criteria you set in 2.
Total sent successfully	Total number of successfully sent SMSs that meet the filter criteria you set in 2.
Total sending failures	Total number of SMSs that failed to be sent and meet the filter criteria you set in 2, excluding those failed due to terminal errors.
Terminal Errors	Number of SMSs that failed to be sent due to terminal errors and meet the filter criteria you set in 2.
Total Sending	Total number of SMSs that are being sent and meet the filter criteria you set in 2.
Valid Success Rate	Valid success rate = Total sent successfully/(Total sent – Total Sending – Terminal Errors)
Sending success rate	Sending success rate = Total sent successfully/Total sent
Export	You can click Export to export statistics in the table.

The platform provides refined statistical result query.

Statistics are displayed by hour or day. After setting filter criteria in 2, you can view the SMS sending details within an hour or within a day.



View failure details. If an SMS fails to be sent, click **View** to view the details.



Perform troubleshooting. Rectify the fault by referring to **SMS Status Error Codes** based on the sending result and status code.



3.7.2 International SMS Statistics

Overview

Message & SMS allows you to view and export international SMS statistics.

Viewing Statistics

- Log in to the Message & SMS console. In the navigation pane, choose Statistics > International SMS.
- 2. Add filters.

Filter Criteri a	Description
Count ry/ Regio n	You can specify Country/Region and Sent to get statistics about SMSs sent to the specified country (or region) in the specified time range.
Templ ate Name	You can specify Template Name and Sent to get statistics about SMSs using the specified template and sent in the specified time range.
Sent	You can quickly view statistics of yesterday, this month, and the last month as well as query data of 31 consecutive days. Only data after September 30, 2019 is available.
	CAUTION If you query data of one day, statistical data is displayed by hour. If you query data of more than one day, statistical data is displayed by day.

3. View statistics details.

Graph: Statistics are displayed by hour or day based on the filter criteria.



View the total statistics items and export the data.



Item	Description
Total Submit	Total number of submitted SMSs that meet the filter criteria you set in 2.
Total submitted	Total number of successfully submitted SMSs that meet the filter criteria you set in 2.
Total submission failures	 Total number of SMSs that fail to be submitted and meet the filter criteria you set in 2. If an SMS fails to be submitted in either of the following ways, it is not charged. API or Group SMS Assistant calling fails. For details, see API Error Codes. status (or status code) returned is an error code of the Huawei platform. View all SMS Status Error Codes. (SMSs with status error codes from the Huawei platform are not
	charged.)
Submission success rate	Submission success rate = Total submitted/Total Submit
Total sent successfully	Total number of successfully sent SMSs that meet the filter criteria you set in 2. You are billed for successfully sent SMSs.
Total sending failures	Total number of SMSs that failed to be sent and meet the filter criteria you set in 2. If status (or status code) returned is an error code of the supplier platform, you will be billed for SMSs that failed to be sent.
Sending success rate	Sending success rate = Total sent successfully/Total Submit
Export	You can click Export to export statistics in the table.

- The platform provides refined statistical result query.

Statistics are displayed by hour or day. After setting filter criteria in 2, you can view the SMS sending details within an hour or within a day.



View failure details. If an SMS fails to be sent, click **View** to view the details



Perform troubleshooting. Rectify the fault by referring to **SMS Status Error Codes** based on the sending result and status code.



3.8 Viewing Sending Details

Message & SMS allows you to view sending details of international and Chinese mainland SMSs.

Notes

- If you query data by sending time, the time range cannot exceed seven days, and only the data within 60 days before the current time can be queried.
- Before the query result is returned, do not query again or change query conditions.

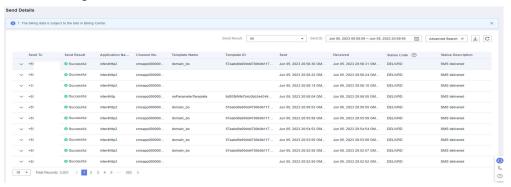
Viewing Sending Details

- Log in to the Message & SMS console. In the navigation pane, choose Send Details > International SMS or Send Details > Chinese Mainland SMS.
- 2. Configure guery conditions based on the site requirements.



- You can query international SMS details by template, number, sending result, and sending time (the time range cannot exceed seven days).
 - The mobile number must be a number with the country code but without the plus sign (+), for example, 2412000000 (Gabon number).
- You can query Chinese mainland SMS details by signature, template, mobile number, sending result, and sending time (the time range cannot exceed seven days).
 - You can enter a custom signature or select **Unknown signature** to query details about SMSs without a signature. You need to enter a complete number without the country code, for example, 18612345678.
- You can obtain the sending details of the last 1 hour or last 24 hours.

3. View sending details.



If **Send Result** is **Successful** and **Status Code** is **DELIVRD**, the SMS is sent successfully. Otherwise, rectify the fault based on the **Status Code** by referring to **SMS Status Error Codes**.

If the API is called successfully but the mobile phone does not receive the SMS and the sending details are not available, the SMS content may trigger manual review and has not been reviewed. Wait for a while and query again.

- If Send Result is Successful, the SMS is successfully sent. In this case, a status report is returned and Status Code is DELIVRD.
- If **Send Result** is **Failed**, the SMS fails to be sent. In this case, a status report is returned and **Status Code** is not **DELIVRD**.
- If Send Result is Sending, the SMS has been sent but a status report is not returned. The Message & SMS platform sends status reports to users within 72 hours after it successfully sends SMSs.

By default, 10 records are displayed on each page.

4. Export sending records.



The fields in the exported table are described in the following table.

Parameter	Description
Charged or Not	• 0 : Charged.
	• 1: Not charged.

Parameter	Description
Send Result	O: The SMS is successfully sent within 3 minutes.
	• 1: The SMS sending failed within 3 minutes.
	• 2 : The status report is to be returned by the carrier.
	• 3: The SMS is successfully sent after more than 3 minutes.
	• 4: The SMS sending failed after more than 3 minutes.
SMS Type	• 1: Verification code SMS.
	• 2: Promotional SMS.
	3: Notification SMS.

To export more than 10,000 records, **submit a service ticket** or contact the account manager.

3.9 General Management

3.9.1 Contact Management

You can add contacts for Message & SMS to receive notifications of the signature and template review results and traffic alarms.

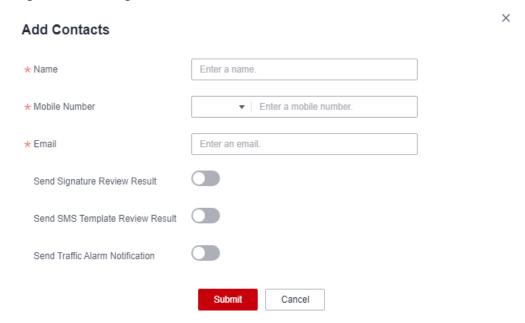
Notes

- Contacts are used only to receive Message & SMS notifications.
- A maximum of 10 contacts can be added.

Managing Contacts

- Log in to the Message & SMS console. In the navigation pane, choose General Management > Contact Management.
- Click Add Contacts in the upper right corner, enter the contact name, mobile number, and email address, select the type of notifications you want to receive, and click Submit.

Figure 3-3 Adding a contact



You can enable or disable Send Signature Review Result, Send SMS
 Template Review Result, and Send Traffic Alarm Notification, as well as modify or delete contacts.

Figure 3-4 Managing contact information



For details about the **Send Traffic Alarm Notification** function, see **Settings**. After this function is enabled, contacts will receive alarm SMS notifications if the total number of SMSs sent per day/month exceeds the alarm value. If the total number of SMSs sent per day/month exceeds the limit value, the platform will suspend SMS sending but will not send notifications again.

3.9.2 Blocklist Management

This section describes how to remove a number from the blocklist of Chinese mainland SMSs.

Introduction

If a recipient unsubscribes from an SMS, the system will record the recipient's mobile number and the SMS signature and type. The recipient will not receive the same type of SMSs again, and the mobile number for sending the SMS will be blocked by the platform. You can check whether a mobile number is in the blocklist by search, and apply for unblocking.

Notes

- Only mobile numbers that are added to the blocklist because of verification code and notification SMSs can be unblocked.
- The platform cannot unblock mobile numbers blocked by carriers. Contact carriers for unblocking.
- Currently, only numbers for sending Chinese mainland SMSs with error code SC:0003 can be queried and unblocked. Numbers for sending international SMSs cannot be unblocked.
- Unblocking applications submitted between 09:00 and 18:00 (GMT+08:00) on workdays will be reviewed within 2 hours. Those submitted after 18:00 (GMT+08:00) will be reviewed on the next workday. The review is performed only on workdays. If there is a legal holiday, the review may be postponed.
- SMS sending data of blocked mobile numbers is not collected for statistics on success rate, and you are not billed for these SMSs.

Feature

- Quick query: blocked numbers whose sending time is within the last 1 hour or 24 hours.
- Query range: historical data of the last 60 days with a time span of 7 days.

Unblocking

- Log in to the Message & SMS console. In the navigation pane, choose General Management > Blocklist Management.
- 2. On the current page, enter a mobile number to check whether it is blocked. Alternatively, set a sending time segment (up to seven days) to search for all blocked mobile numbers in the time segment.
- 3. Click **Unblock** in the **Operation** column to apply for unblocking a number. Wait for review.



4. Click the **Application Records** tab to view the review status.



- Unblocking: The application for unblocking the number is under review.
- Unblocked: The number is removed from the blocklist.
- Unblocking rejected: The unblocking application is rejected.

3.9.3 Settings

This section describes how to set the traffic threshold, sending limit, and number control rules, and how to restrict SMS sending areas.

Function

Huawei Cloud Message & SMS provides you with traffic threshold and region management functions to reduce losses caused by service bombing.

- Traffic threshold (alarm value): If the total number of SMSs sent exceeds an alarm value, the platform will send alarm SMS notifications to contacts.
- Traffic threshold (limit value): If the total number of SMSs sent exceeds a limit value, the platform will send alarm SMS notifications to contacts again and automatically suspend SMS sending.
- Region threshold: You can select some countries or regions. Then, SMSs will be sent only to countries or regions you select.

Traffic Threshold

- Log in to the Message & SMS console. In the navigation pane, choose General Management > Settings.
- 2. Set traffic threshold based on site requirements. For details about the parameters, see **Table 3-9**.

Table 3-9 Traffic threshold parameters

Parameter	Description
Total Sent per Day	Total number of SMSs you request to send on each calendar day.
Total Sent per Month	Total number of SMSs you request to send in each calendar month.
Alarm Value	If the total number of SMSs sent per day/month exceeds the alarm value, the platform will send alarm SMS notifications to contacts.
	 If the total number of SMSs sent within a day reaches the alarm value, the platform will send alarm SMS notifications on the same day. The total number of SMSs sent will be cleared on the next day. If you decrease the alarm value of the total number of SMSs sent per day on the same day when you receive an alarm SMS notification, the platform will not send an alarm notification again and the new alarm value will take effect on the next day. If you increase the alarm value on the same day, the platform will send an alarm SMS notification again when the total number of SMSs sent within a day reaches the new alarm value. The same applies to the alarm value of the total number of SMSs sent per month. By default, the alarm value of the total number of SMSs sent per day is set to 400, and that of the total number of SMSs sent per month is set to 8,000.

Parameter	Description
Limit Value	If the total number of SMSs sent per day/month exceeds the limit value, the platform will send alarm SMS notifications to contacts and suspend SMS sending.
	• If the total number of SMSs sent within a day reaches the limit value, the platform will send alarm SMS notifications and suspend SMS sending on the same day. The total number of SMSs sent will be cleared and SMS sending will resume on the next day. If you decrease the limit value of the total number of SMSs sent per day on the same day when you receive an alarm SMS notification, the platform will not send a notification again and the new limit value will take effect on the next day. If you increase the limit value on the same day, SMS sending will resume, and the platform will send an alarm SMS notification again and suspend SMS sending when the total number of SMSs sent within a day reaches the new limit value. The same applies to the limit value of the total number of SMSs sent per month.
	NOTE The Chinese mainland and international SMS quota is reset at 00:00 UTC+08:00.
	By default, the limit value of the total number of SMSs sent per day is set to 500, and that of the total number of SMSs sent per month is set to 10,000.

□ NOTE

Statistics are recorded in UTC format. As there is some delay between when the platform sends an SMS and when the SMS status is reported, the recorded total number of SMSs sent per day/month may be off by as many as 100 SMSs.

- Setting the traffic threshold for Chinese mainland SMS
 - i. Click the Chinese Mainland SMS tab.
 - ii. Click **Modify** and change the values based on the following rules:
 - Limit values must be greater than alarm values, and the limit value of the number of SMSs sent per month must be greater than that of the number of SMSs sent per day. Limit values and alarm values must be integers and cannot be negative, 0, or empty.
 - You can customize alarm values based on the preceding rule.
 You can increase limit values in the following ways:
 - Contact the account manager, who will send an email to the product manager to apply for increasing of the limit values. The product manager will modify the values in the backend after confirming the application.

- If you do not know how to contact the account manager, submit a service ticket by clicking the link in the Traffic Threshold area or accessing the service ticket page through the navigation bar on the top of the console. (Partners should apply for increasing the traffic thresholds on behalf of their sub-customers. Subcustomers cannot apply for the increase by themselves.)
- 1) Log in to the console. On the menu bar, choose **More** > **Service Tickets** > **Create Service Ticket**.
- 2) Choose **Services** > **Quotas**. On the displayed page, select **Quota Application** and click **Create Now**.
- 3) Select a region.
- 4) In **Problem Description**, enter the following content:
 - Message & SMS traffic threshold application: Account xxx applies for increasing the Chinese mainland SMS (or international SMS) traffic threshold. The desired limit value of the number of SMSs sent per day is xxx. The desired limit value of the number of SMSs sent per month is xxx.
- 5) Wait for your application to be reviewed. The limit values will be automatically changed upon approval. You can choose Service Tickets > My Service Tickets to view your application review progress.

New limit values will be used as the default limit values. Set limit values lower than the default values based on your service requirements.

iii. Click **OK** to save the modification.

If the total number of SMSs sent exceeds the limit value you set, the platform will suspend SMS sending. You can increase the limit value or wait for SMS sending to automatically resume in the next day or month.

iv. In the navigation pane, choose General Management > Contact Management. If you enable Send Traffic Alarm Notification, the platform will send an alarm SMS notification to contacts when the total number of SMSs sent exceeds the alarm or limit value you set.



- Setting the traffic threshold for international SMS
 - i. Click the International SMS tab.
 - ii. Click **Global Threshold Configuration** and change the values based on the following rules:
 - Limit values must be greater than alarm values, and the limit value of the number of SMSs sent per month must be greater than that of the number of SMSs sent per day. Limit values and alarm values must be integers and cannot be negative, 0, or empty.

- You can customize alarm values based on the preceding rule.
 You can increase limit values in the following ways:
- Contact the account manager, who will send an email to the product manager to apply for increasing of the limit values. The product manager will modify the values in the backend after confirming the application.
- If you do not know how to contact the account manager, submit
 a service ticket by clicking the link in the Traffic Threshold area
 or accessing the service ticket page through the navigation bar
 on the top of the console. (Partners should apply for increasing
 the traffic thresholds on behalf of their sub-customers. Sub customers cannot apply for the increase by themselves.)
- 1) Log in to the console. On the menu bar, choose **More** > **Service Tickets** > **Create Service Ticket**.
- 2) Choose **Services** > **Quotas**. On the displayed page, select **Quota Application** and click **Create Now**.
- 3) Select a region.
- 4) In **Problem Description**, enter the following content:
 - Message & SMS traffic threshold application: Account xxx applies for increasing the Chinese mainland SMS (or international SMS) traffic threshold. The desired limit value of the number of SMSs sent per day is xxx. The desired limit value of the number of SMSs sent per month is xxx.
- 5) Wait for your application to be reviewed. The limit values will be automatically changed upon approval. You can choose Service Tickets > My Service Tickets to view your application review progress.

New limit values will be used as the default limit values. Set limit values lower than the default values based on your service requirements.

iii. Click **OK** to save the modification.

If the total number of SMSs sent exceeds the limit value you set, the platform will suspend SMS sending. You can increase the limit value or wait for SMS sending to automatically resume in the next day or month.

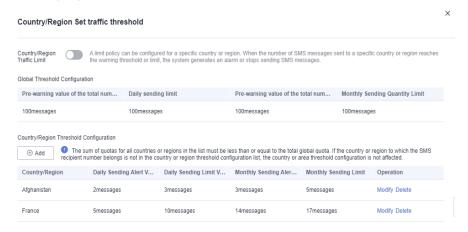
iv. In the navigation pane, choose General Management > Contact Management. If you enable Send Traffic Alarm Notification, the platform will send an alarm SMS notification to contacts when the total number of SMSs sent exceeds the alarm or limit value you set.



v. You can also click **Country/Region Threshold Configuration** to set traffic thresholds for specific countries and regions.

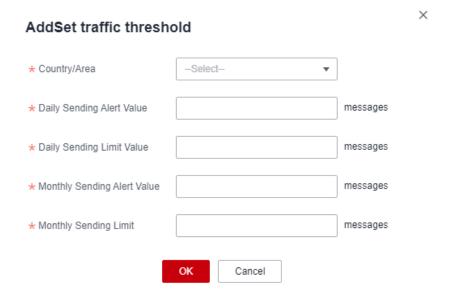
□ NOTE

- You can set traffic thresholds to manage the number of SMSs sent to a specific country or region. If the total number of SMSs sent to the target country or region exceeds an alarm value (daily or monthly), the platform will send alarm SMS notifications to contacts. If the total number of SMSs sent exceeds a limit value, the platform will send alarm SMS notifications to contacts again and automatically suspend SMS sending.
- The preset thresholds take effect only after you enable the Country/ Region Traffic Limit function. When you enable or disable the function, the modification takes effect about 1 minute later.
- The sum of the daily/monthly sending limit cannot exceed the global limit.





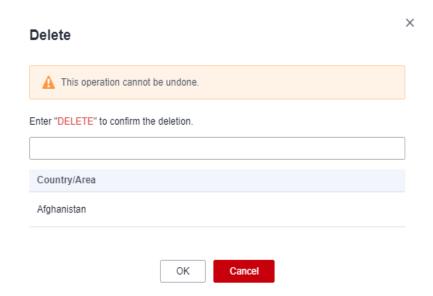
Add traffic thresholds for a country or region.
 In the displayed dialog box, click Add. You can only add one policy for a country or region.



Modify traffic thresholds for a country or region.
 In the displayed dialog box, click Modify in the Operation column of a specific policy.

ModifySet traffic threshold ★ Country/Area Afghanistan * Daily Sending Alert Value 5 messages 10 messages * Daily Sending Limit Value ★ Monthly Sending Alert Value 14 messages * Monthly Sending Limit 17 messages OK Cancel

Delete traffic thresholds for a country or region.
 In the displayed dialog box, click **Delete** in the **Operation** column of a specific policy. After the policy is deleted, the statistics on the SMSs sent to the country or region on the current day or in the current month will be reset.



Regional Settings (International SMS)

Log in to the **Message & SMS console**. In the navigation pane, choose **General Management** > **Settings**.

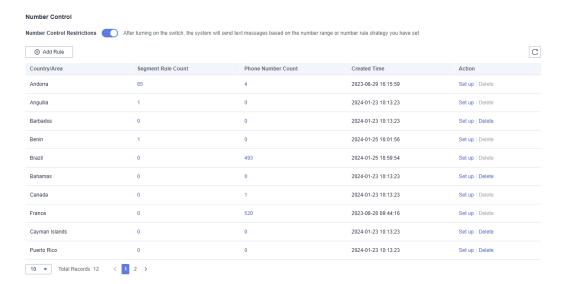


- By default, Send SMSs to Specified Countries/Regions is disabled, and SMSs will be sent to all countries or regions where Message & SMS is available.
- Click Send SMSs to Specified Countries/Regions to enable the region settings. Select the countries or regions to which SMSs are sent. Then, Message & SMS will send SMSs only to selected countries or regions.

Click **Add Country/Region** and select the countries or regions to which you want to send SMSs. Added countries or regions are displayed in the list on the lower part of the page. A country or region cannot be added repeatedly.

Number Control Restrictions

Log in to the **Message & SMS console**. In the navigation pane, choose **General Management > Settings**.



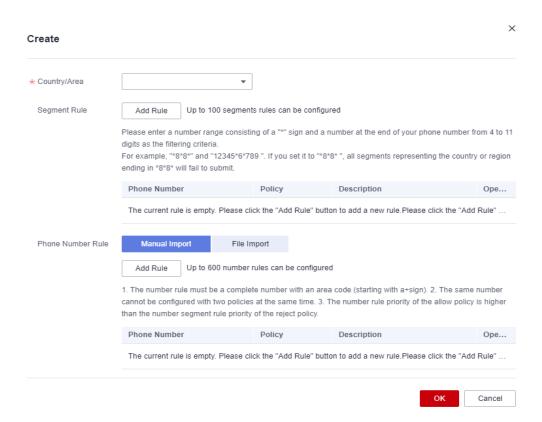
- By default, Number Control Restrictions is disabled. SMSs can be sent to all supported number segments or numbers.
- You can click **Number Control Restrictions** to enable the function. The system sends SMSs based on the configured number segment or number rules.

To add or modify a number control rule, perform the following steps:

Add a number control rule.

□ NOTE

- Enter a complete number starting with a plus sign (+) and combining with an area code
- You can add up to 100 number segment rules and 600 number rules for each country or region.
- Number rules can be added in batches by importing a file. The number rules in the same file must belong to the same country or region, and the number of rules cannot exceed 600.
- After a rule is added, it takes about 15 minutes for the rule to take effect.



- a. Click **Add Rule**. On the displayed page, select the country or region to which the rule belongs.
- b. Add number or number segment rules based on service requirements.
 - Add a number segment rule. In the **Segment Rule** area, click **Add Rule**. Enter a 4- to 11-digit number segment consisting of asterisks (*) and digits as the filtering condition. For example, *8*8* and 12345*6*789. If you enter *8*8*, SMSs cannot be sent to numbers ending with *8*8* in the specified country or region.
 - Add a number rule. You can add number rules by manual input or file import.
 - Manual input

In the **Phone Number Rule** area, select **Manual Import**, and click **Add Rule**. Enter a complete number starting with a plus sign (+) and combining with an area code, and select a policy from the drop-down list box to allow or deny SMS sending to the number. For example, if you select the denying policy for the number **+33612345678**, the system cannot send SMSs to **+33612345678**. After the configuration, click **OK**.

File import

In the **Phone Number Rule** area, select **File Import**, and click **Download Template**. In the template, enter complete numbers starting with a plus sign (+) and combining with area codes, and select policies from the drop-down list box to allow or deny SMS sending to the target numbers. For example, if you select the denying policy for the number **+33612345678**, the system cannot send SMSs to **+33612345678**. After the configuration,

click **Import** to import the file. After the data is imported, click **OK**.

• Modify a number rule.

You cannot modify an existing number rule. To change the whitelist/blacklist policy for a single number, click **Set up** in the operation column of a country/region, and **add a new rule** for the target number again.

• Remove a country or region from the number control list.

- You can remove a country from the number control list only after deleting all number and number segment rules configured for the country.
- You can enter keywords in the search box to perform fuzzy search for the rules.
- Delete all configured rules.
 - Click **Set up** for the corresponding country/region in the number control list.
 - ii. On the displayed page, select multiple number segment or number rules and click **Batch Delete**, or click **Delete** to delete a single rule.
 - iii. In the displayed dialog box, click **OK**.
- b. Remove the country or region from the number control list.
 - After deleting all configured rules of the country or region, click
 Delete corresponding to the country or region in the number control list.
 - ii. Click **Yes** in the displayed dialog box.

4 Mode 2: Suspension upon Resource Package Runout

Resource Introduction

Creating an SMS Application

Applying for an SMS Template

Using Group SMS Assistant

Viewing Statistics (New Version)

Viewing Statistics (Old Version)

Viewing Sending Details

Resource Package Management

General Management

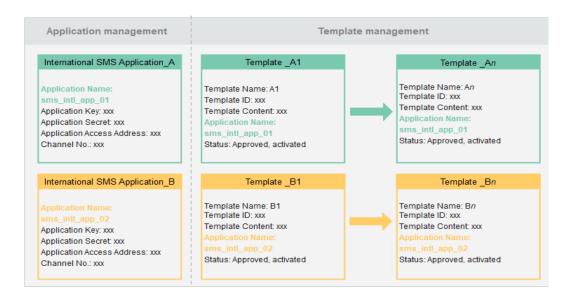
4.1 Resource Introduction

This section describes the relationships between international SMS applications and templates.

□ NOTE

You need to prepare the data and SMS API request parameters before sending international SMSs. For details, see **Development Preparation (International SMS)**.

Featu re	SMS Application	SMS Template	Example
Maxi mum quant ity	2	By default, a maximum of 2000 templates can be created for each application. To increase the quota, submit a service ticket or contact the account manager.	 By default, a maximum of two international SMS applications can be created, for example, sms_intl_app_01 and sms_intl_app_02. Template examples: Template_A1,, and Template_An.
Servic e type	International SMS application	-	-
Resou rce restric tions	Resources of the two international SMS applications are independent of each other and cannot be shared.	Each template belongs to an application and can only be used with the application.	A template must match its application. Examples: Correct: sms_intl_app_01 and Template_A1 Incorrect: sms_intl_app_01 and Template_B1



4.2 Creating an SMS Application

Overview

SMS applications carry out functions for the Huawei Cloud Message & SMS service. After you added an application, the system automatically allocates a unique application key and application secret and provides you with an application access address. The application key and application secret uniquely identify a user. They are carried for authentication and authorization during SMS API calling.

Notes

- You can create an application only after your account is bound to a credit card. No application can be added if your Huawei Cloud account balance is insufficient. In this case, top up your account by following instructions provided in Topping Up an Account. If you have topped up your account and the application cannot be added, log out and log in to the system again.
- A maximum of two international SMS applications can be added. To add more applications, submit a service ticket.
- A created application cannot be deleted. You can modify the application name, SMS status report destination, and IP whitelist, and update application secrets as needed.
- For details about the browsers supported by the Message & SMS console, see
 Which Browsers Are Supported?

Creating an Application

- Log in to the Message & SMS console. In the navigation pane, choose International SMS > Application Management.
- 2. Click **Add Application** in the upper right corner. For details about how to create an application, see **Table 4-1**.

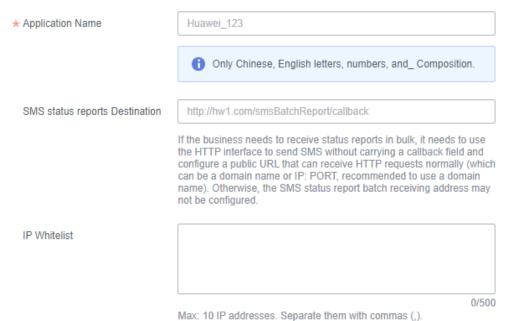


Table 4-1 Adding an application

Paramete r	Description
Applicatio n Name	Customize a name. The value can contain a maximum of 30 characters, including letters, digits, and underscores (_). The application name is used only for internal display and is irrelevant to the external API calls.
SMS status reports Destinatio n	If the service party needs to receive status reports in batches, do not carry the callback field in the HTTP message delivery request, and configure a public network URL that can receive HTTP requests. The URL can be a domain name (recommended) or IP address:Port number. If this function is not required, you do not need to set this item.
IP Whitelist	Set this parameter based on the service requirements. You can configure up to 10 IP addresses for an application. Use commas (,) to separate IP addresses. It takes about 10 to 15 minutes for the IP whitelist to take effect. After the IP whitelist is successfully configured, the connection to the Message & SMS can be set up.

3. Click OK.

Managing an Application

After an application is created, choose **International SMS** > **Application Management** to view application information.

Table 4-2 Application information

Parameter	Description
Application Name	Corresponds to Application Name in Table 3-3 .
Application Primary Key ID	It is unique and is used to obtain and modify the application.
Application Key	Uniquely identifies a user. It is carried for authentication and authorization during SMS API calling. For details, see Development Preparation (International SMS) .

Parameter	Description
Application Secret	Uniquely identifies a user. It is carried for authentication and authorization during SMS API calling. For details, see Development Preparation (International SMS) .
	To view or update an application secret, enter the verification code and click OK .
	CAUTION If you sent SMSs before updating an application secret, wait for 15 minutes for the new application secret to take effect. If you did not send SMSs before updating an application secret, the new application secret takes effect immediately.
Application Access Address	The application access address and access URI form an SMS API request address, which is used to call Message & SMS APIs.
Channel No.	Allocated by Huawei and used only for API calling. For details, see Development Preparation (International SMS) .
Status	Normal: The application is successfully added and can be used properly.
	Paused: 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.
Created	Specifies the time when the application was created.
Operation	 Applications can be modified, paused, and resumed. Currently, SMS applications cannot be deleted. For details, see Can I Delete an SMS Application.

4.3 Applying for an SMS Template

Overview

An SMS template is a content template used to send SMSs. It consists of fixed text or fixed text plus variables. After a template is created, only variables can be replaced by characters that meet requirements.

Notes

- No template can be added if your Huawei Cloud account balance is insufficient. In this case, top up your account by following instructions provided in Topping Up an Account. If you have topped up your account and the template cannot be added, log out and log in to the system again.
- By default, a maximum of 2,000 templates can be created for each application. To increase the quota, **submit a service ticket** or contact the account manager. For details about template rules and variable usage rules, see **Template and Variable Specifications**.

- Only rejected SMS templates can be modified. You can add a template and submit it for approval.
- For details about the browsers supported by the Message & SMS console, see
 Which Browsers Are Supported?

Creating a Template

- Log in to the Message & SMS console. In the navigation pane, choose International SMS > Template Management.
- 2. You can create a template in either of the following ways:
 - Adding a template:
 - Click **Add Template** in the upper right corner and configure parameters by referring to **Table 4-3** to create a template. Click **OK**.
 - Importing templates in batches:
 - Click **Download Sample Template** in the upper right corner to download the Excel template and fill in the template by referring to **Table 4-3**. You can create multiple templates at a time.
 - ii. Click **Batch Import** in the upper right corner to import the filled template.
 - iii. After the template is imported, the template data to be reviewed is displayed on the console. If the template fails to be imported due to invalid content format, a dialog box will be displayed for you to download the failed records. Then, you can modify the template content and import it again.

The parameters marked with * in the table are mandatory. Fill in the template by referring to **Table 4-3** to prevent upload failures. Up to 50 records can be imported at a time. **Templates with variables cannot be imported** currently.

Add Template * Template Name Enter a name with a maximum of 30 characters. * Application None available? Add now $\label{lem:condition} \begin{tabular}{ll} Wariable format: $\{1\},$\{2\}...$\{20\} \\ Example: Verification code: $\{1\}. Valid for 5 minutes. Don't share it with $(1,0)$ and $(1,0)$ are the statement of the statement$ * Template Content anyone else. 0/500 Characters:0 Segments: 0 Rules for Calculating SMS Length In a verification code template, only the verification code can be set as a variable. The content must contain either a verification code, registration code, or other dynamic code. An unsubscription method must be provided for promotional templates. Users can text TD, T, or N for SMS unsubscription. To avoid template review failures, see Template and Variable Specifications and Template Examples . * Sent to (country/region 1) If SMS messages are to be sent to more than three countries/regions, specify other country/region names in Description. Sent to (country/region 2) Sent to (country/region 3) Description Describe how you are using your service. 0/100 Template review is typically completed within 2 hours.
Review time: Workdays 09:00 to 18:00 (GMT+08:00) (unless postponed due to a legal holiday)

Figure 4-1 Adding an international SMS template

Table 4-3 Adding a template/Importing templates in batches

Para mete r	Description
*Tem plate Nam e	Set this parameter based on the service requirements and template types. Examples: ClientLogin_VerificationCodeSMS_01 and MeetingScheduling_NotificationSMS_01. For details, see Overview.
*Appl icatio n	Set this parameter based on the service requirements.
*Tem plate Cont ent	Enter the content to be sent by referring to Sample Template or Template and Variable Specifications . Use variables properly for approval. Currently, batch import does not support variables.
*Sent to (cou ntry/ regio n 1) Sent to (cou ntry/ regio n 2) Sent to (cou ntry/ regio n 3)	 Specify at least one country or region based on your service scope. If SMSs are sent to more than three countries or regions, add them in the Description text box. If SMSs are sent globally, select at least one major country or region and enter "The SMS service is globally deployed, not distinguishing major sending countries or regions." in the Description text box. This parameter is used only for survey. To restrict the sending countries (or regions), see Region Settings. For details, see Querying the Country or Region to Which SMSs Are Sent.
Descr iptio n	Describe the situation where SMSs are used. For example, verification code SMSs are used to verify users for login, and notification SMSs are used to notify participants of a meeting.

3. A template can be used only after being approved. SMS templates submitted during 09:00–18:00 (GMT+08:00) on workdays will be reviewed within 2 hours. SMS signatures submitted after 18:00 (GMT+08:00) will be reviewed on the next workday. The review is performed only on workdays. If there is a legal holiday, the review may be postponed.

Managing a Template

After the template is created, choose **International SMS** > **Template Management** to view the template review status and other information.

Table 4-4 Template information

Parameter	Description
Template Name	Corresponds to Template Name in Table 3-7 .
Template primary key 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 ID	Uniquely identifies an SMS template. When you call Message & SMS APIs to send SMSs, the template ID is used to specify the template content to be sent. For details, see Development Preparation (International SMS) .
Application	Corresponds to Application in Table 3-7 .
Template Type	Corresponds to Template Type in Table 3-7 .
Created	Specifies the time when the template was created.
Status	Pending: The template application has been submitted and is to be reviewed by the operation manager.
	• Signature unreviewed : The signature of the template is to be reviewed. Ensure that the signature is approved.
	Approved, activated: The template is approved and the template ID is delivered. The template can be used.
	Approved, deactivated: The template is approved and the template ID is delivered, but the template is not activated and cannot be used.
	Rejected: The template is rejected because it does not comply with Template and Variable Specifications. Solve the issue based on the cause in the review comments. For details, see Template Review Description.
Reviewer Comments	If a template is rejected, the platform provides detailed reasons here.
Operation	Modify: Only templates in the Rejected status can be modified.
	Delete: A template in the Approved, activated, Approved, deactivated, or Rejected status can be deleted.

4.4 Using Group SMS Assistant

Group SMS Assistant is used to send SMSs in batches without code development. You can use Group SMS Assistant to create a scheduled task, enabling the system to send SMSs at a scheduled time within one month. The scheduled task can be canceled. However, Group SMS Assistant does not support sending SMSs periodically.

Notes

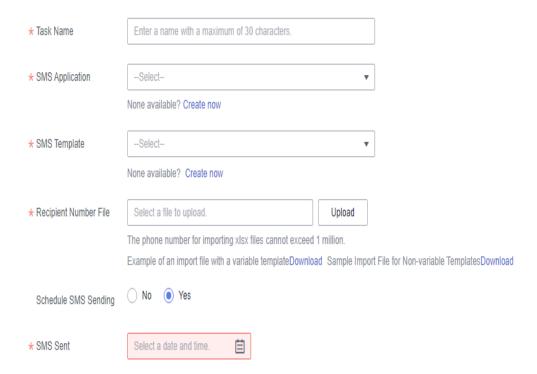
- Max. numbers in a batch sending task: 1 million. Supported file: XLSX file with size up to 12 MB.
- The system charges the SMS that has been sent based on the SMS service type. For details, see **Billing Mode**.
- For details about the browsers supported by the Message & SMS console, see
 Which Browsers Are Supported?

Prerequisites

- You have created an SMS application.
- You have an approved and activated SMS template.
- Applications and templates are associated. For details, see Resource Introduction.

Creating a Sending Task

- Log in to the Message & SMS console. In the navigation pane, choose Group SMS Assistant > Task Management.
- 2. Click Create Task in the upper right corner.
- 3. Set the parameters.



Paramete r	Description
Task Name	Set this parameter based on the service requirements and SMS types. For example, International SMS_Service Notification_01 .

Paramete r	Description	
SMS Applicatio n	Select an international SMS application based on service requirements. The SMS Application setting determines values available in the SMS Signature and SMS Template drop-down lists.	
SMS Template	Select an SMS template that is associated with the SMS application. For parameter settings on Group SMS Assistant, see Why an SMS Signature and an SMS Template Cannot Be Selected in the Group SMS Assistant?	
Recipient Number File	Click Download to download a template (with or without variables). Add recipient numbers to the file as instructed, and upload the file.	
	NOTE Max. numbers in a template file: 1 million. Max. file size: 12 MB. File name: Only digits and letters are allowed.	
	To prevent numbers from being displayed abnormally, set cells to the text format, or copy the sample cells, paste and modify them.	
	All recipient numbers to which international SMSs are sent must be in the +{CC}{NDC}{SN} format, for example, +2412000000 (a Gabon number).	
	{CC} indicates the country code.	
	 {NDC} indicates the region code. If the called number is a mobile number, {NDC} is optional. 	
	{SN} indicates the recipient number.	
Schedule SMS Sending	(Optional) Select Yes if you want to send SMSs at a scheduled time.	
SMS Sent	This parameter specifies the date and time when an SMS is sent. Set this parameter only when Schedule SMS Sending is set to Yes . You are advised to send scheduled SMSs between 08:00 and 22:00 every day. Sending SMSs at other time may incur user complaints.	

4. Click **OK**.

The system checks the imported recipient numbers as follows:

Chec k Item	Matching Rule	Solution	Example
Num ber norm	The number consists of 11 digits and starts with 1.	Prefix the number with +86 .	131****5678 -> +86 131****5678
alizat ion	The number consists of 13 digits and starts with 86.	Prefix the number with a plus sign (+).	86131****5678 -> +86131****5678

Chec k Item	Matching Rule	Solution	Example
	The number consists of neither 11 nor 13 digits and does not start with a plus sign (+).	The system considers them invalid, deletes them from the number list, and records the quantity of such numbers.	231****5678 -> Delete 131****567 -> Delete 1234****56789 -> Delete 86131****567 -> Delete
Num ber dedu plicat ion	Check whether duplicate numbers exist after number normalization.	Delete deduplicate numbers and record the quantity of such numbers.	Only one duplicate number is reserved.

- If the message "Submission request failed. The recipient number file includes invalid phone numbers." is displayed, check the recipient number file, enter valid numbers, and upload it again.
- If a message "X phone number(s) imported. Redundant and invalid numbers have been deleted. You will not be charged for the Y message(s) deleted." is displayed, check the recipient number file for whether invalid numbers exist, create a task again for modified numbers.

Viewing Task Details

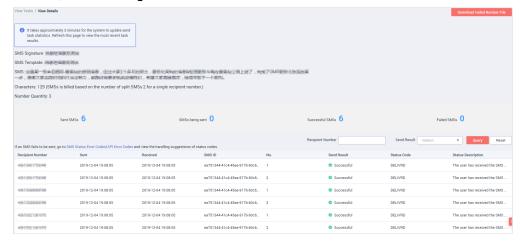
- Log in to the Message & SMS console. In the navigation pane, choose Group SMS Assistant > Task Management, and filter tasks by task name and status. Click View in the Operation column of the task. The task details page is displayed.
- 2. Filter sending details by recipient number and sending result to view sending details of specific numbers.



"\" indicates that the operation is supported, and "-" indicates that the operation is not supported.

Status	Viewi ng	Cancel ing	Deleti ng	Description
Pending	√	√	-	Click Cancel Task to cancel a scheduled task to be executed.
				 Cancel a scheduled task at least 5 minutes before the scheduled SMS sending time. The task cannot be canceled if it is about to be executed within 5 minutes.
				If a scheduled task is not executed within 24 hours, it is automatically canceled.
Cancele d	√	-	√	Click Delete Task to remove a canceled task from the system. To resend the SMS, submit the sending task again.
Executin g	√	-	-	The sending task is being processed. Some recipient numbers do not return the SMS status in time due to errors (such as mobile phone power-off/suspension, poor signal, and unallocated number).
				Click View Details , select the number whose Send Result is Sending , and dial the number to check whether the mobile phone is in normal state.
Complet ed	√	-	-	The sending task is processed, and the SMS status reports of all recipient numbers are returned.

3. View information about sending SMSs, such as number quantity, receipt time, SMS ID, and sending result.



- A long SMS will be segmented to multiple records with the same SMS ID.
 For details about how an SMS is segmented, see SMS Sending Rules.
- Click **Download Failed Number File** to obtain a file containing all numbers to which SMSs fail to be sent. Only the numbers whose sending tasks fail in the latest three days can be exported. Such numbers before three days cannot be exported.
- If Send Result is Sending, the SMS gateway does not send a sending status report. Wait for a period of time and check the sending status again. For details, see Why Send Result Is Displayed as Sending or the SMS Is Received After a Long Time?
- If Send Result is Failed, click SMS Status Error Codes to query the error based on the status code.

4.5 Viewing Statistics (New Version)

Overview

Message & SMS allows you to view and export international SMS statistics.

Viewing Statistics

- Log in to the Message & SMS console. In the navigation pane, choose Statistics > International SMS.
- 2. Add filters.

Filter Criteri a	Description
Count ry/ Regio n	You can query statistics based on the specified country or region names.
Applic ation	You can query statistics by filtering applications.
SMS Type	You can query statistics by filtering SMS types.
Templ ate	You can query statistics by filtering templates.
Range	You can quickly filter and view the statistics of the last half year as well as query data of 31 consecutive days. NOTE When you query the data of one day, statistics are displayed by hour. When you query the data of more than one day, statistics are displayed by day.

3. View statistics details.

View the statistics through a chart.

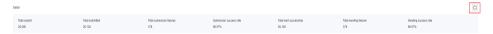
Statistics are displayed by hour or day based on the filter criteria. Data can be displayed in bar charts or line charts. The statistics area on the right displays the total number of successful sending times, number of failed sending times, and their proportions.

■ NOTE

Select or deselect the check boxes on the right to determine the data displayed on the chart.



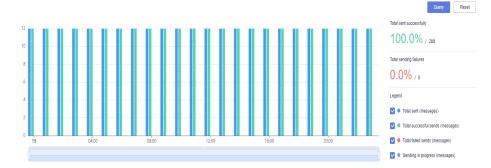
- View the total statistics items and export the data.



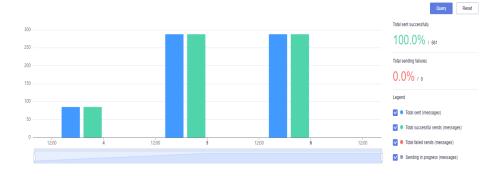
Item	Description	
Total submit	Total number of submitted SMSs that meet the filter criteria you set in 2.	
Total submitted	Total number of successfully submitted SMSs that meet the filter criteria you set in 2.	
Total submission failures	 Total number of SMSs that fail to be submitted and meet the filter criteria you set in 2. If an SMS fails to be submitted in either of the following ways, it is not charged. API or Group SMS Assistant calling fails. For details, see API Error Codes. status (or status code) returned is an error code of the Huawei platform. View all SMS Status Error Codes. (SMSs with status error codes from the Huawei platform are not charged.) 	
Submission success rate	Submission success rate = Total submitted/Total submit	
Total sent successfully	Total number of successfully sent SMSs that meet the filter criteria you set in 2. You are billed for successfully sent SMSs.	
Total sending failures	Total number of SMSs that failed to be sent and meet the filter criteria you set in 2. If status (or status code) returned is an error code of the supplier platform, you will be billed for SMSs that failed to be sent.	

Item	Description
Sending success rate	Sending success rate = Total sent successfully/Total submit
Export	Click to export the total statistics.

The platform collects statistics on SMSs by hour or day.
 In the following figure, SMS statistics are displayed by hour.



In the following figure, SMS statistics are displayed by day.



MOTE

You can click **view failure** to view failure records and rectify the fault based on the sending results, status codes, and **status error codes**.

4.6 Viewing Statistics (Old Version)

Overview

Message & SMS allows you to view and export international SMS statistics.

Viewing Statistics

- Log in to the Message & SMS console. In the navigation pane, choose Statistics > International SMS.
- 2. Add filters.

Filter Criteri a	Description
Count ry/ Regio n	You can specify Country/Region and Sent to get statistics about SMSs sent to the specified country (or region) in the specified time range.
Templ ate Name	You can specify Template Name and Sent to get statistics about SMSs using the specified template and sent in the specified time range.
Sent	You can quickly view statistics of yesterday, this month, and the last month as well as query data of 31 consecutive days. Only data after September 30, 2019 is available.
	CAUTION If you query data of one day, statistical data is displayed by hour. If you query data of more than one day, statistical data is displayed by day.

3. View statistics details.

- Graph: Statistics are displayed by hour or day based on the filter criteria.



View the total statistics items and export the data.



Item	Description
Total Submit	Total number of submitted SMSs that meet the filter criteria you set in 2.
Total submitted	Total number of successfully submitted SMSs that meet the filter criteria you set in 2 .

Item	Description
Total submission	Total number of SMSs that fail to be submitted and meet the filter criteria you set in 2.
failures	If an SMS fails to be submitted in either of the following ways, it is not charged.
	 API or Group SMS Assistant calling fails. For details, see API Error Codes.
	 status (or status code) returned is an error code of the Huawei platform. View all SMS Status Error Codes. (SMSs with status error codes from the Huawei platform are not charged.)
Submission success rate	Submission success rate = Total submitted/Total Submit
Total sent successfully	Total number of successfully sent SMSs that meet the filter criteria you set in 2. You are billed for successfully sent SMSs.
Total sending failures	Total number of SMSs that failed to be sent and meet the filter criteria you set in 2.
rantares	If status (or status code) returned is an error code of the supplier platform , you will be billed for SMSs that failed to be sent.
Sending success rate	Sending success rate = Total sent successfully/Total Submit
Export	You can click Export to export statistics in the table.

The platform provides refined statistical result query.

Statistics are displayed by hour or day. After setting filter criteria in 2, you can view the SMS sending details within an hour or within a day.



View failure details. If an SMS fails to be sent, click **View** to view the details.



Perform troubleshooting. Rectify the fault by referring to **SMS Status Error Codes** based on the sending result and status code.



4.7 Viewing Sending Details

Message & SMS allows you to view sending details of international SMSs.

Notes

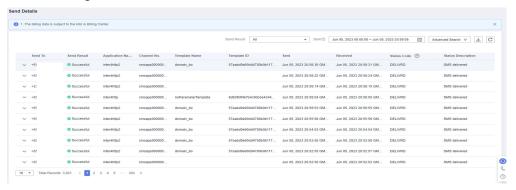
- If you query data by sending time, the time range cannot exceed seven days, and only the data within 60 days before the current time can be queried.
- Before the query result is returned, do not query again or change query conditions.

Viewing Sending Details

- Log in to the Message & SMS console and choose Send Details > International SMS.
- 2. Configure query conditions based on the site requirements.
 - You can query international SMS details by template, number, sending result, and sending time (the time range cannot exceed seven days).
 The mobile number must be a number with the country code but without the plus sign (+), for example, 2412000000 (Gabon number).
 - You can obtain the sending details of the last 1 hour or last 24 hours.



3. View sending details.



If **Send Result** is **Successful** and **Status Code** is **DELIVRD**, the SMS is sent successfully. Otherwise, rectify the fault based on the **Status Code** by referring to **SMS Status Error Codes**.

If the API is called successfully but the mobile phone does not receive the SMS and the sending details are not available, the SMS content may trigger manual review and has not been reviewed. Wait for a while and query again.

- If Send Result is Successful, the SMS is successfully sent. In this case, a status report is returned and Status Code is DELIVRD.
- If **Send Result** is **Failed**, the SMS fails to be sent. In this case, a status report is returned and **Status Code** is not **DELIVRD**.

 If Send Result is Sending, the SMS has been sent but a status report is not returned. The Message & SMS platform sends status reports to users within 72 hours after it successfully sends SMSs.

□ NOTE

By default, 10 records are displayed on each page.

4. Export sending records.



The fields in the exported table are described in the following table.

Parameter	Description
Charged or Not	• 0 : Charged.
	• 1: Not charged.
Send Result	• 0 : The SMS is successfully sent within 3 minutes.
	• 1: The SMS sending failed within 3 minutes.
	• 2 : The status report is to be returned by the carrier.
	• 3: The SMS is successfully sent after more than 3 minutes.
	• 4: The SMS sending failed after more than 3 minutes.
SMS Type	• 1: Verification code SMS.
	• 2: Promotional SMS.
	• 3: Notification SMS.

Ⅲ NOTE

To export more than 10,000 records, **submit a service ticket** or contact the account manager.

4.8 Resource Package Management

Message & SMS allows you to manage purchased resource packages. On the **Resource** tab page, quota statistics are collected by region. You can view remaining quotas of resource packages and set remaining quota alarms on this page. On the **SMS Type** tab page, quota statistics are collected by package specifications, and you can view remaining quotas of resource packages on this page.

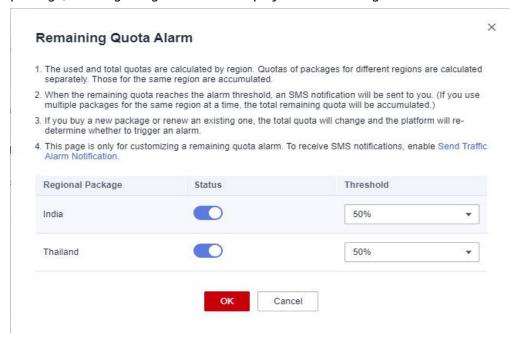
Notes

- Before using this function, purchase a resource package by referring to Price Details and Purchase Guide.
- You can expect a delay of 1-2 hours for remaining quota statistics. The data displayed is subject to the charged traffic.

Viewing the Remaining Quota and Setting a Remaining Quota Alarm (on the Resource Page)

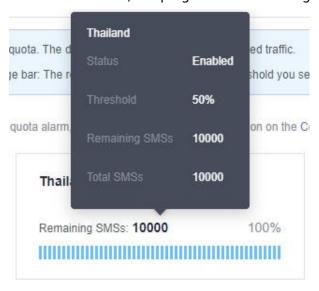
∩ NOTE

- On the **Resource** page, statistics of used and total quotas are collected by region. Quota statistics of resource packages for different regions are collected separately. Quota statistics of resource packages for the same region are collected together.
- If you have multiple resource packages for the same region and set a remaining quota alarm, quota statistics of these resource packages will be collected together. The platform will send an alarm notification only when the remaining quotas reach the regional threshold. In this case, the platform will not send an alarm notification if the quota of a resource package is used up but the total remaining quotas have not reached the regional threshold.
- If you buy a new package or renew an existing one, the total quotas will change and the platform will re-determine whether to trigger an alarm.
- 1. Log in to the **Message & SMS console**. In the navigation pane, choose **Resource Package Management**. The **Resource** page is displayed.
- 2. Click **Remaining Quota Alarm**. If you have purchased a regional resource package, the target regions will be displayed in the dialog box.



- 3. Turn on the switch, select a percentage for **Threshold** based on your service requirements, and click **OK**.
- 4. In the navigation pane, choose General Management > Contact Management. Enable Send Traffic Alarm Notification. When the remaining quota of the regional resource package reaches the threshold set in 3, the contact will receive a remaining quota alarm notification.

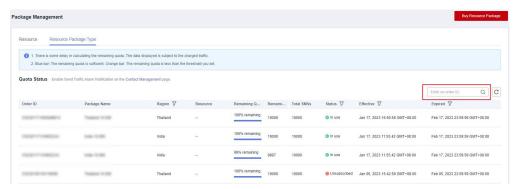
5. In the navigation pane, choose **Resource Package Management** to return to the **Resource** tab page. Hover the pointer on the regional resource package module to view the remaining quota alarm status, remaining quota threshold, remaining SMS quota, and total SMS quota. If the remaining quota is sufficient, the threshold progress bar is in blue. If the remaining quota is less than the threshold, the progress bar is in orange.



6. If you want to change the remaining quota alarm status and remaining quota threshold, click **Remaining Quota Alarm**.

View Remaining Quotas (on the SMS Type Page)

- Log in to the Message & SMS console. In the navigation pane, choose Resource Package Management. Click the Resource Package Type tab.
- 2. This page displays the specifications of all purchased resource packages and the corresponding quota usage. You can search for a specific order by order ID.



4.9 General Management

4.9.1 Contact Management

You can add contacts for Message & SMS to receive notifications of template review results and traffic alarms.

Notes

- Contacts are used only to receive Message & SMS notifications.
- A maximum of 10 contacts can be added.

Managing Contacts

- Log in to the Message & SMS console. In the navigation pane, choose General Management > Contact Management.
- 2. Click **Add Contacts** in the upper right corner, enter the contact name, mobile number, and email address, select the type of notifications you want to receive, and click **Submit**.
- 3. You can enable or disable **Send SMS Template Review Result** and **Send Traffic Alarm Notification**, as well as modify or delete contacts.



If **Send Traffic Alarm Notification** is enabled, a contact will receive alarm notifications when alarm values and limit values set in **Settings** are reached as well as when the remaining quota threshold set in **Resource Package Management** is reached.

4.9.2 Settings

This section describes how to set the traffic threshold, sending limit, and number blacklist for international SMSs, and how to restrict SMS sending areas.

Function

Huawei Cloud Message & SMS provides you with traffic threshold and region management functions to reduce losses caused by service bombing.

- Traffic threshold (alarm value): If the total number of SMSs sent exceeds an alarm value, the platform will send alarm SMS notifications to contacts.
- Traffic threshold (limit value): If the total number of SMSs sent exceeds a limit value, the platform will send alarm SMS notifications to contacts again and automatically suspend SMS sending.
- Region threshold: You can select some countries or regions. Then, SMSs will be sent only to countries or regions you select.

Traffic Threshold

- Log in to the Message & SMS console. In the navigation pane, choose General Management > Settings.
- 2. Set the international SMS traffic threshold based on service requirements. For details about the parameters, see **Table 4-5**.

Table 4-5 Traffic threshold parameters

Parameter	Description
Total Sent per Day	Total number of SMSs you request to send on each calendar day.

Parameter	Description
Total Sent per Month	Total number of SMSs you request to send in each calendar month.
Alarm Value	 If the total number of SMSs sent per day/month exceeds the alarm value, the platform will send alarm SMS notifications to contacts. If the total number of SMSs sent within a day reaches the alarm value, the platform will send alarm SMS notifications on the same day. The total number of SMSs sent will be cleared on the next day. If you decrease the alarm value of the total number of SMSs sent per day on the same day when you receive an alarm SMS notification, the platform will not send an alarm notification again and the new alarm value will take effect on the next day. If you increase the alarm value on the same day, the platform will send an alarm SMS notification again when the total number of SMSs sent within a day reaches the new alarm value. The
	 same applies to the alarm value of the total number of SMSs sent per month. By default, the alarm value of the total number of SMSs sent per day is set to 400, and that of the total number of SMSs sent per month is set to 8,000.
Limit Value	If the total number of SMSs sent per day/month exceeds the limit value, the platform will send alarm SMS notifications to contacts and suspend SMS sending.
	• If the total number of SMSs sent within a day reaches the limit value, the platform will send alarm SMS notifications and suspend SMS sending on the same day. The total number of SMSs sent will be cleared and SMS sending will resume on the next day. If you decrease the limit value of the total number of SMSs sent per day on the same day when you receive an alarm SMS notification, the platform will not send a notification again and the new limit value will take effect on the next day. If you increase the limit value on the same day, SMS sending will resume, and the platform will send an alarm SMS notification again and suspend SMS sending when the total number of SMSs sent within a day reaches the new limit value. The same applies to the limit value of the total number of SMSs sent per month. NOTE The Chinese mainland and international SMS quota is reset at 00:00 UTC+08:00.
	By default, the limit value of the total number of SMSs sent per day is set to 500, and that of the total number of SMSs sent per month is set to 10,000.

Statistics are recorded in UTC format. As there is some delay between when the platform sends an SMS and when the SMS status is reported, the recorded total number of SMSs sent per day/month may be off by as many as 100 SMSs.

- a. Click **Global Threshold Configuration** and change the values based on the following rules:
 - Limit values must be greater than alarm values, and the limit value of the number of SMSs sent per month must be greater than that of the number of SMSs sent per day. Limit values and alarm values must be integers and cannot be negative, 0, or empty.
 - You can customize alarm values based on the preceding rule.

You can increase limit values in the following ways:

- Contact the account manager, who will send an email to the product manager to apply for increasing of the limit values. The product manager will modify the values in the backend after confirming the application.
- If you do not know how to contact the account manager, submit a service ticket by clicking the link in the Traffic Threshold area or accessing the service ticket page through the navigation bar on the top of the console. (Partners should apply for increasing the traffic thresholds on behalf of their sub-customers. Sub-customers cannot apply for the increase by themselves.)
- i. Log in to the console. On the menu bar, choose **More** > **Service Tickets** > **Create Service Ticket**.
- ii. Choose **Services** > **Quotas**. On the displayed page, select **Quota Application** and click **Create Now**.
- iii. Select a region.
- iv. In **Problem Description**, enter the following content:

Message & SMS traffic threshold application: Account *xxx* applies for increasing the Chinese mainland SMS (or international SMS) traffic threshold. The desired limit value of the number of SMSs sent per day is *xxx*. The desired limit value of the number of SMSs sent per month is *xxx*.

 Wait for your application to be reviewed. The limit values will be automatically changed upon approval. You can choose Service Tickets > My Service Tickets to view your application review progress.

New limit values will be used as the default limit values. Set limit values lower than the default values based on your service requirements.

b. Click **OK** to save the modification.

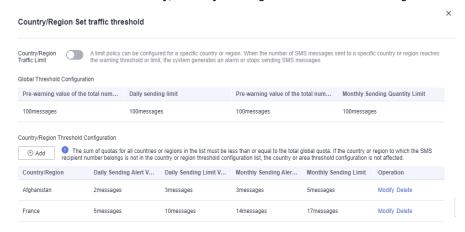
If the total number of SMSs sent exceeds the limit value you set, the platform will suspend SMS sending. You can increase the limit value or wait for SMS sending to automatically resume in the next day or month.

c. In the navigation pane, choose General Management > Contact Management. If you enable Send Traffic Alarm Notification, the platform will send an alarm SMS notification to contacts when the total number of SMSs sent exceeds the alarm or limit value you set.



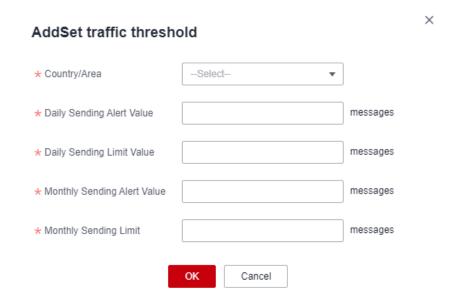
d. You can also click **Country/Region Threshold Configuration** to set traffic thresholds for specific countries and regions.

- You can set traffic thresholds to manage the number of SMSs sent to a
 specific country or region. If the total number of SMSs sent to the target
 country or region exceeds an alarm value (daily or monthly), the platform will
 send alarm SMS notifications to contacts. If the total number of SMSs sent
 exceeds a limit value, the platform will send alarm SMS notifications to
 contacts again and automatically suspend SMS sending.
- The preset thresholds take effect only after you enable the Country/Region Traffic Limit function. When you enable or disable the function, the modification takes effect about 1 minute later.
- The sum of the daily/monthly sending limit cannot exceed the global limit.

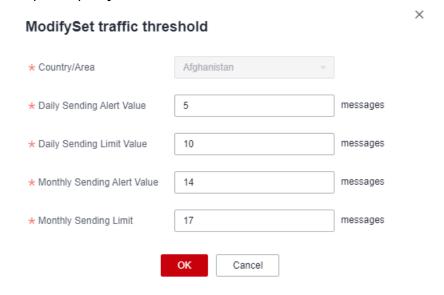


Add traffic thresholds for a country or region.

In the displayed dialog box, click **Add**. You can only add one policy for a country or region.

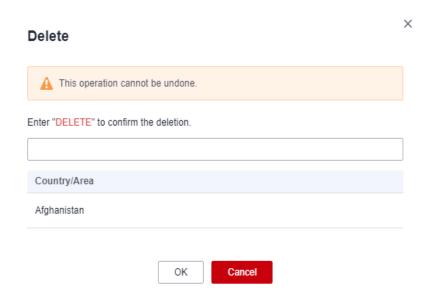


Modify traffic thresholds for a country or region.
In the displayed dialog box, click Modify in the Operation column of a specific policy.



Delete traffic thresholds for a country or region.

In the displayed dialog box, click **Delete** in the **Operation** column of a specific policy. After the policy is deleted, the statistics on the SMSs sent to the country or region on the current day or in the current month will be reset.



Region Setting

Log in to the **Message & SMS console**, and choose **General Management** > **Settings** in the navigation pane.

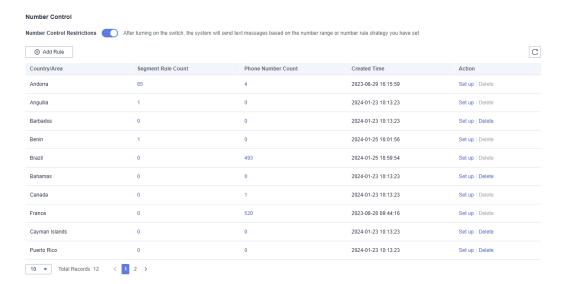


- By default, Send SMSs to Specified Countries/Regions is disabled, and SMSs will be sent to all countries or regions where Message & SMS is available.
- Click Send SMSs to Specified Countries/Regions to enable the region settings. Select the countries or regions to which SMSs are sent. Then, Message & SMS will send SMSs only to selected countries or regions.

Click **Add Country/Region** and select the countries or regions to which you want to send SMSs. Added countries or regions are displayed in the list on the lower part of the page. A country or region cannot be added repeatedly.

Number Control Restrictions

Log in to the **Message & SMS console**. In the navigation pane, choose **General Management > Settings**.



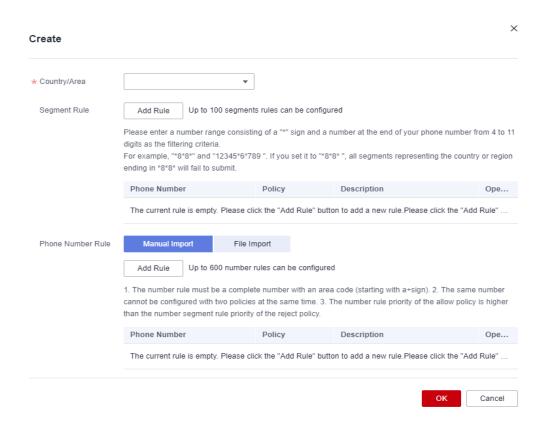
- By default, Number Control Restrictions is disabled. SMSs can be sent to all supported number segments or numbers.
- You can click **Number Control Restrictions** to enable the function. The system sends SMSs based on the configured number segment or number rules.

To add or modify a number control rule, perform the following steps:

Add a number control rule.

□ NOTE

- Enter a complete number starting with a plus sign (+) and combining with an area code
- You can add up to 100 number segment rules and 600 number rules for each country or region.
- Number rules can be added in batches by importing a file. The number rules in the same file must belong to the same country or region, and the number of rules cannot exceed 600.
- After a rule is added, it takes about 15 minutes for the rule to take effect.



- a. Click **Add Rule**. On the displayed page, select the country or region to which the rule belongs.
- b. Add number or number segment rules based on service requirements.
 - Add a number segment rule. In the **Segment Rule** area, click **Add Rule**. Enter a 4- to 11-digit number segment consisting of asterisks (*) and digits as the filtering condition. For example, *8*8* and 12345*6*789. If you enter *8*8*, SMSs cannot be sent to numbers ending with *8*8* in the specified country or region.
 - Add a number rule. You can add number rules by manual input or file import.
 - Manual input

In the **Phone Number Rule** area, select **Manual Import**, and click **Add Rule**. Enter a complete number starting with a plus sign (+) and combining with an area code, and select a policy from the drop-down list box to allow or deny SMS sending to the number. For example, if you select the denying policy for the number +33612345678, the system cannot send SMSs to +33612345678. After the configuration, click **OK**.

File import

In the **Phone Number Rule** area, select **File Import**, and click **Download Template**. In the template, enter complete numbers starting with a plus sign (+) and combining with area codes, and select policies from the drop-down list box to allow or deny SMS sending to the target numbers. For example, if you select the denying policy for the number **+33612345678**, the system cannot send SMSs to **+33612345678**. After the configuration,

click **Import** to import the file. After the data is imported, click **OK**.

• Modify a number rule.

You cannot modify an existing number rule. To change the whitelist/blacklist policy for a single number, click **Set up** in the operation column of a country/region, and **add a new rule** for the target number again.

Remove a country or region from the number control list.

□ NOTE

- You can remove a country from the number control list only after deleting all number and number segment rules configured for the country.
- You can enter keywords in the search box to perform fuzzy search for the rules.
- a. Delete all configured rules.
 - Click **Set up** for the corresponding country/region in the number control list.
 - ii. On the displayed page, select multiple number segment or number rules and click **Batch Delete**, or click **Delete** to delete a single rule.
 - iii. In the displayed dialog box, click **OK**.
- b. Remove the country or region from the number control list.
 - After deleting all configured rules of the country or region, click
 Delete corresponding to the country or region in the number control list.
 - ii. Click **Yes** in the displayed dialog box.

5 Permission Management

Creating a User and Assigning Message & SMS Permissions Message & SMS Custom Policies

5.1 Creating a User and Assigning Message & SMS Permissions

This section describes how to use **Identity and Access Management (IAM)** to implement fine-grained permissions control for your Message & SMS resources. With IAM, you can:

- Create IAM users for employees based on your enterprise's organizational structure. Each IAM user will have their own security credentials for accessing Message & SMS resources.
- Assign users only the permissions required to perform a task.
- Entrust a Huawei Cloud account or cloud service to perform efficient O&M on your Message & SMS resources.

If your Huawei Cloud account does not require individual IAM users, skip this section.

The following describes the procedure for assigning permissions (see **Procedure**).

Prerequisites

Before assigning permissions to user groups, you should learn about the Message & SMS permissions listed in Message & SMS Permissions. For the permissions of other services, see System Permissions.

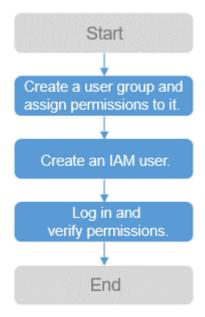
Ⅲ NOTE

When assigning permissions to a user group, set **Scope** to **Region-specific projects**.

- If a project (for example, ap-southeast-1) is selected for a specific region (for example, CN-Hong Kong), the permissions will take effect only for the selected project. After logging in to the console, IAM users need to switch to the region where they have been authorized for authentication.
- If **All projects** is selected, the permissions will take effect for all region-specific projects. IAM users do not need to switch to the region where they have been authorized.

Procedure

Figure 5-1 Process for assigning permissions



1. Create a user group and assign permissions to it.

Create a user group on the IAM console and attach the **MSGSMS FullAccess** policy to the group.

- 2. Create an IAM user and add it to the user group.
 - Create a user on the IAM console and add the user to the group created in 1.
- 3. Log in and verify permissions.
 - Log in to the console as the created user. For details, see **Logging In as an IAM User**. Verify the Message & SMS operation permissions.

5.2 Message & SMS Custom Policies

You can create custom policies to supplement system-defined Message & SMS policies. For the actions supported for custom policies, see **Permissions Policies and Supported Actions**.

You can create custom policies in either of the following ways:

• Visual editor: Select cloud services, actions, resources, and request conditions. This does not require knowledge of policy syntax.

 JSON: Create a policy in the JSON format from scratch or based on an existing policy.

For details, see **Creating a Custom Policy**. The following section contains examples of common Message & SMS custom policies.

Message & SMS Custom Policies

• Example 1: Authorizing a user to guery the number of SMS applications

• Example 2: Denying SMS template deletion

A policy with only "Deny" permissions must be used in conjunction with other policies to take effect. If the policies assigned to a user contain both "Allow" and "Deny", the "Deny" permissions take precedence over the "Allow" permissions.

For example, if you want to assign all of the permissions of the MSGSMS FullAccess policy to a user, except for deleting SMS templates, you can create a custom policy to deny only SMS template deletion. When you apply both the MSGSMS FullAccess policy and the custom policy denying SMS template deletion, since "Deny" always takes precedence over "Allow", the "Deny" will be applied for that one conflicting permission. The user will then be able to perform all operations on SMS templates except deleting SMS templates. The following is an example of a deny policy.