Simple Message Notification

Getting Started

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HUAWEI TECHNOLOGIES CO., LTD.

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1 Making Preparations

Before you use SMN, make the following preparations:

- **Creating a HUAWEI ID and Enabling Huawei Cloud Services**
- **Topping Up Your Account**

Creating a HUAWEI ID and Enabling Huawei Cloud Services

If you already have a HUAWEI ID, skip this section. If you do not have one, perform the following operations to create an ID:

1. Visit the **Huawei Cloud official website** and click **Sign Up**.
2. On the displayed **Register Huawei ID** page, sign up an ID.

   After you sign up successfully, the system automatically redirects you to your personal information page.

Topping Up Your Account

Ensure that your account balance is sufficient.

- For SMN pricing details, see **Product Pricing Details**.
- For details about how to top up an account, see **Topping Up an Account (Prepaid Direct Customers)**.

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2 Before You Publish a Message

After you learn the basic concepts in SMN, you can start to create a topic, add subscriptions to the topic, and publish messages on the SMN console or by calling RESTful APIs provided by SMN.

Message Types

You can publish different formats of messages using SMN.

Table 2-1 Message formats

Message Format	Scenarios	Reference
JSON message	Send different message content to different types of subscribers with only one message publishing.	**Publishing a JSON Message**
Template message	Send messages containing fixed content and variables that can be easily set to desired content.	**Publishing a Template Message**

Registering with Huawei Cloud

If you have registered with Huawei Cloud, you can log in to the management console and access SMN. Otherwise, register yourself with Huawei Cloud.

1. Visit **huaweicloud.com/intl/en-us/**.
2. Click **Register** in the upper right corner.

   The registration page is displayed. Enter required information as prompted. After the registration, the system automatically redirects you to your personal information page.

The account can be used to access the SMN service and all other Huawei Cloud services.

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3 Publishing a JSON Message Using SMN

Scenarios

You can publish a JSON message to an SMN topic to broadcast the message to different types of subscription endpoints in the topic.

To start your experience with SMN, this topic describes how to create a topic and publish a JSON message.

Operation Process

Procedure	Description
Making Preparations	Sign up for a HUAWEI ID, complete real-name authentication, enable Huawei Cloud services, and top up your account.
Step 1: Create a Topic	Create a topic **Mytopic**.
Step 2: Add a Subscription	Add SMS and email subscriptions to the topic.
Step 3: Publish a Message	• Publish a message "Dear Sir or Madam, this is an SMS message." to the SMS subscriber. • Publish a message "Dear Sir or Madam, this is an Email message." to the email subscriber.
Step 4: Receive the Message	The subscription endpoints receive the messages.

Making Preparations

1. Sign up for Huawei Cloud and complete real-name authentication.

   Before using SMN, **sign up for a HUAWEI ID, enable Huawei Cloud services, and complete real-name authentication**.

   If you have enabled Huawei Cloud services and completed real-name authentication, skip this step.

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2. Top up your account.

   Ensure that the account balance is sufficient. If not, **top up your account**.

Step 1: Create a Topic

1. Log in to the SMN console and go to the **Create Topic** page.
2. Configure topic parameters.

   In this example, only some parameters are described. Retain the default values for other parameters. For details about the parameters, see **Creating a Topic**.

   Figure 3-1 Create Topic

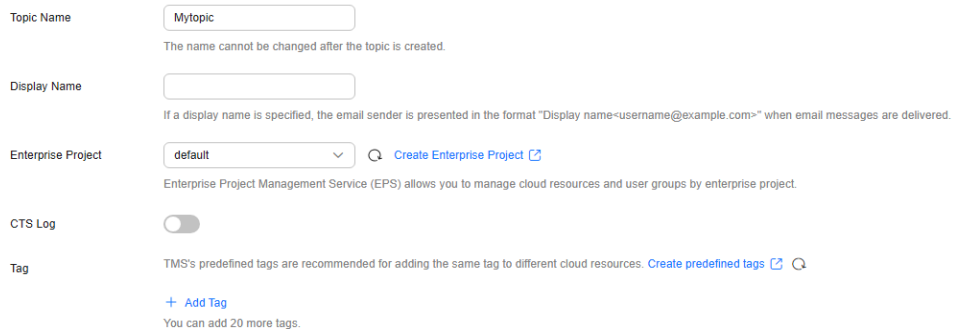

   Table 3-1 Parameters for creating a topic

Parameter	Example Value	Description
Topic Name	Mytopic	Specifies the name of the topic to be created.
Enterprise Project	default	This parameter is displayed only for enterprise users who have enabled enterprise project management.

3. Click **OK.**

   After a topic is created, the system generates a topic URN, which uniquely identifies the topic and cannot be changed. The topic you created is displayed in the topic list.

Step 2: Add a Subscription

Add SMS and email subscriptions to the topic.

Adding an SMS Subscription

1. In the topic list, locate **Mytopic** and click **Add Subscription** in the **Operation** column.
2. Configure subscription parameters.

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In this example, only some parameters are described. Retain the default values for other parameters. For details about the parameters, see **Creating a Topic**.

Figure 3-2 Add Subscription

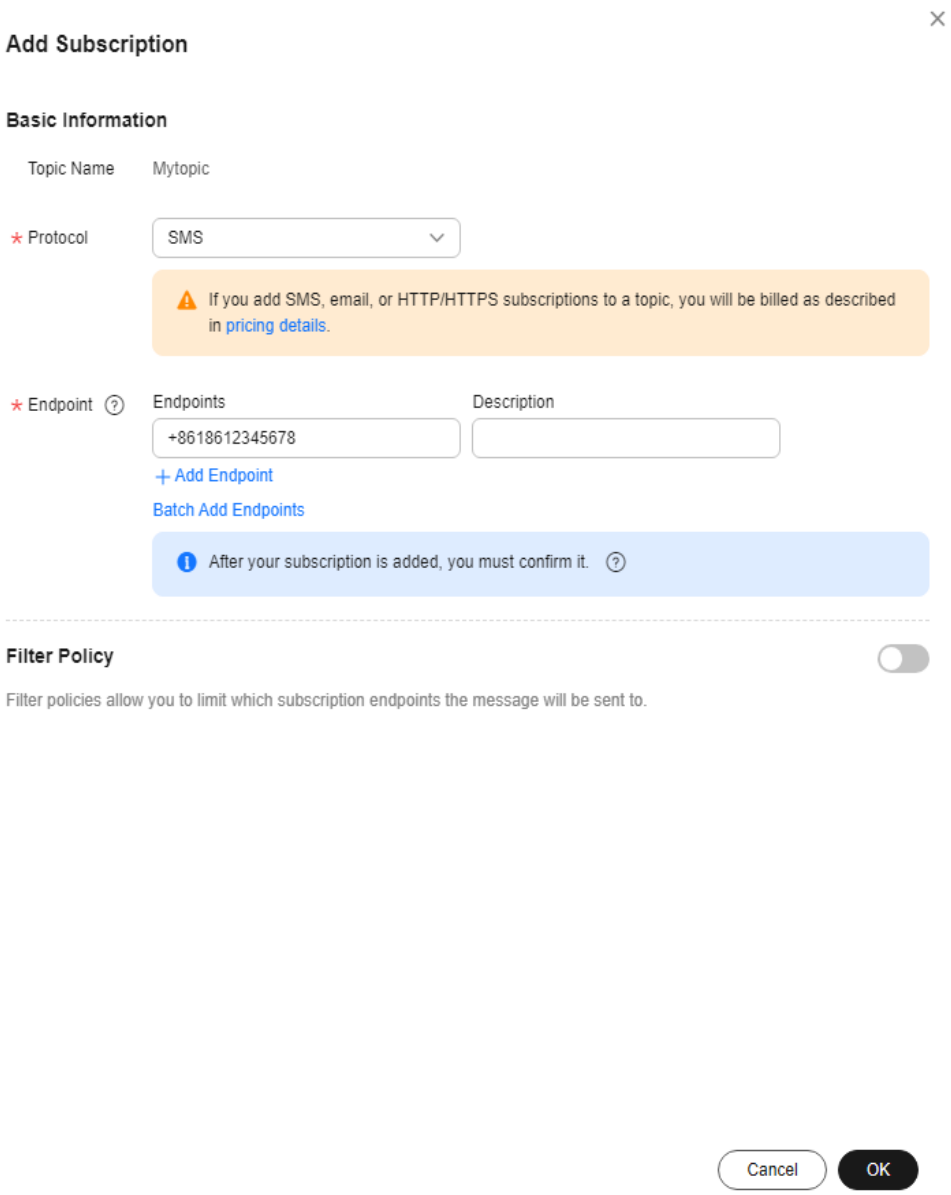

Table 3-2 Parameters for adding an SMS subscription

Parameter	Example Value	Description
Topic Name	Mytopic	Specifies the name of the topic you select to add subscriptions.

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Parameter	Example Value	Description
Protocol	SMS	Select **SMS** from the **Protocol** drop-down list. For more supported protocols, see **What Protocols Does SMN Support?**
Endpoint	+8618612345678	Enter a valid mobile number in the text box. • You can enter up to 10 endpoints, each on a separate line. • SMN does not check whether subscription endpoints exist when you add subscriptions.

3. Click **OK**.

   After a subscription is added, the subscription endpoint receives a confirmation message. The recipient needs to click the subscription confirmation link on the subscription endpoint to confirm that they agree to receive messages published to the topic. On the SMN console, you can see that the subscription status is **Confirmed**.

Adding an Email Subscription

1. In the topic list, locate **Mytopic** and click **Add Subscription** in the **Operation** column.
2. Configure subscription parameters.

   In this example, only some parameters are described. Retain the default values for other parameters. For details about the parameters, see **Creating a Topic**.

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Figure 3-3 Add Subscription

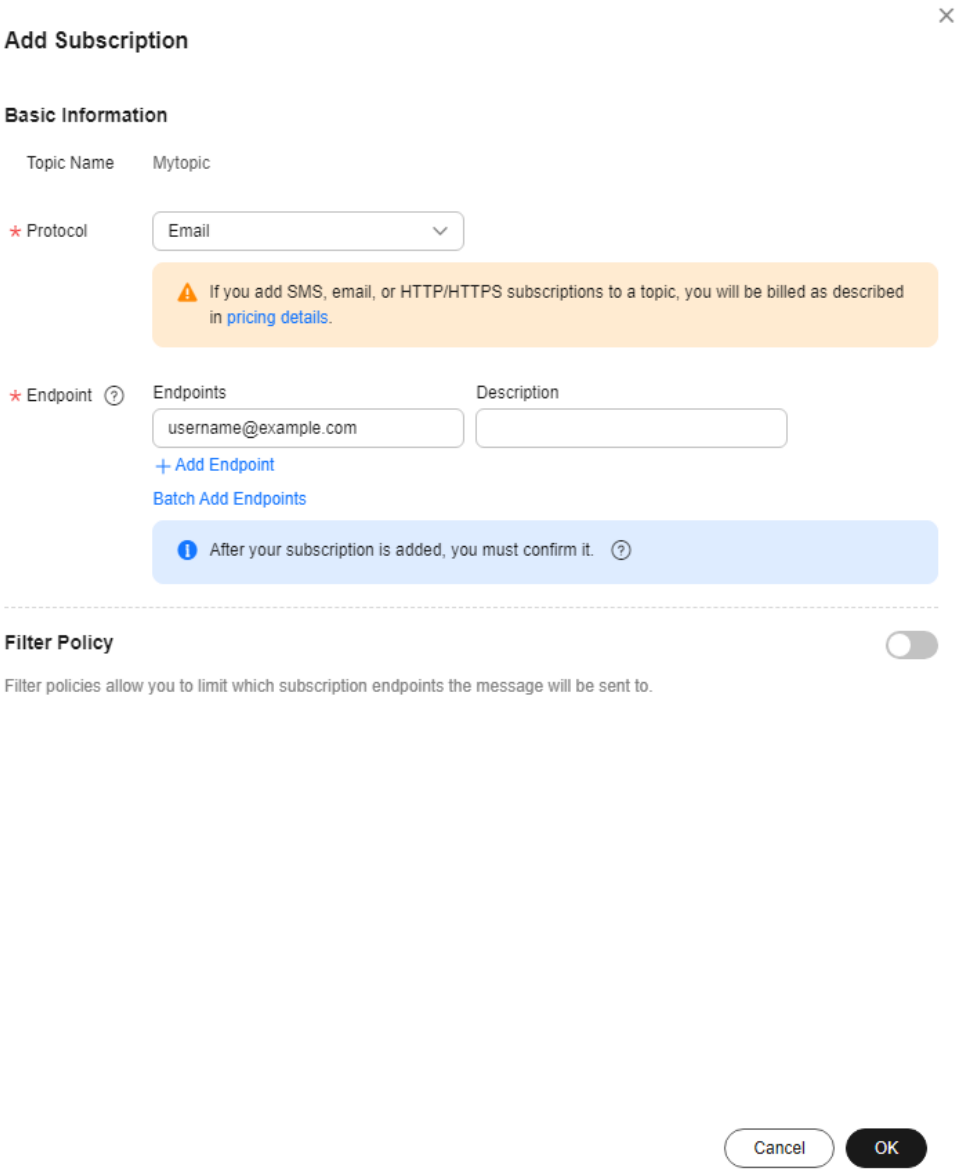

Table 3-3 Parameters for adding an email subscription

Parameter	Example Value	Description
Topic Name	Mytopic	Specifies the name of the topic you select to add subscriptions.
Protocol	Email	Select **Email** from the **Protocol** drop-down list. For more supported protocols, see **What Protocols Does SMN Support?**

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Parameter	Example Value	Description
Endpoint	**username@example.com**	Enter a valid email address in the text box. • You can enter up to 10 endpoints, each on a separate line. • SMN does not check whether subscription endpoints exist when you add subscriptions.

3. Click **OK**.

   After a subscription is added, the subscription endpoint receives a confirmation message. The recipient needs to click the subscription confirmation link on the subscription endpoint to confirm that they agree to receive messages published to the topic. On the SMN console, you can see that the subscription status is **Confirmed**.

Step 3: Publish a Message

1. In the topic list, locate **Mytopic** and click **Publish Message** in the **Operation** column.
2. Configure parameters for publishing a message.

   In this example, only some parameters are described. Retain the default values for other parameters. For details about the parameters, see **Publishing a JSON Message**.

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Figure 3-4 Publish Message

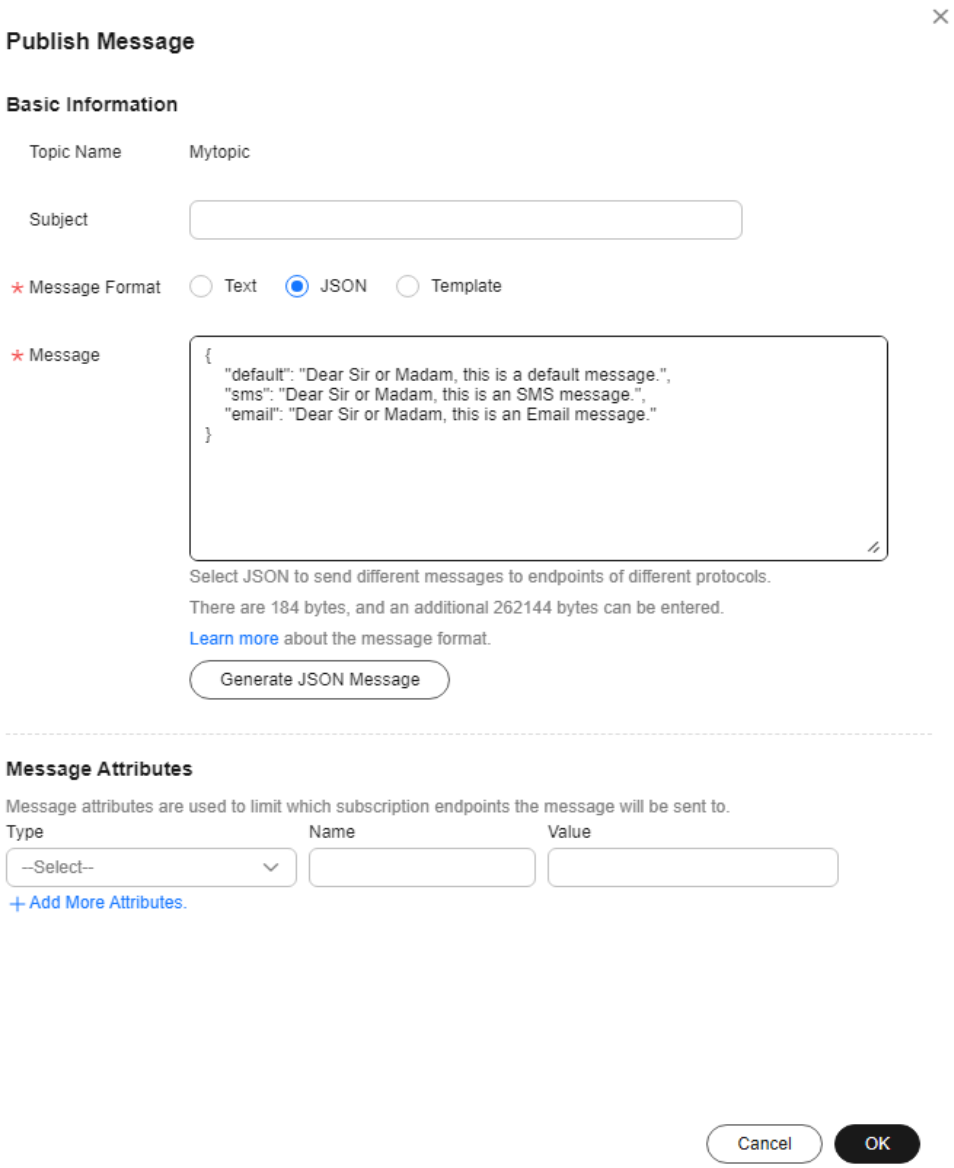

Table 3-4 Parameters for publishing a message

Parameter	Example Value	Description
Topic Name	Mytopic	Specifies the name of the topic you select to publish a message.
Message Format	JSON	Specifies in which format messages will be sent.

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Parameter	Example Value	Description

Message	{
	"default": "Dear Sir or Madam, this is a default message.",
	"sms": "Dear Sir or Madam, this is an SMS message.",
	"email": "Dear Sir or Madam, this is an Email message."
	}
		You can manually enter a message in JSON format or click **Generate JSON Message** to automatically generate a message.
		For details, see **JSON Message Format**.

3. Click **OK**.
   For details about messages, see **Messages Using Different Protocols**.

Step 4: Receive the Message

Subscription endpoints of different protocols receive different messages.

- SMS
  SMS messages only contain the message content.
- Email
  Email messages contain the message subject, content, and a link to unsubscribe.

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4 Publishing a Template Message

Scenarios

You can publish a template message to an SMN topic when:

Most of the content in the messages is fixed, and only a few parts vary with the occasions. In this scenario, you can create a message template and use variables as placeholders to indicate changeable content. Each time when you publish a message, you can select a template and set values only for variables without having to edit the message content repeatedly.

This topic describes how to create a topic and publish a template message.

For example, your organization holds expositions regularly, and you need to notify people of the time. Except for the time, most part of the message remains unchanged.

Operation Process

Procedure	Description
Making Preparations	Sign up for a HUAWEI ID, complete real-name authentication, enable Huawei Cloud services, and top up your account.
Step 1: Create a Topic	Create a topic **Mytopic**.
Step 2: Add a Subscription	Add SMS and email subscriptions to the topic.
Step 3: Create a Message Template	Create a message template named **tem_001** and select **Default**, **SMS**, and **Email** for **Protocol** separately.
Step 4: Publish a Message	Publish a message to SMS and email endpoints: **The Arts and Crafts Exposition will be held from {*startdate*} through {*enddate*}. We sincerely invite you to join us.** *{startdate}* indicates when the exposition will be started. *{enddate}* indicates when the exposition will be ended.

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Procedure	Description
Step 5: Receive the Message	The subscription endpoints receive the message.

Making Preparations

1. Sign up for Huawei Cloud and complete real-name authentication.

   Before using SMN, **sign up for a HUAWEI ID, enable Huawei Cloud services, and complete real-name authentication**.

   If you have enabled Huawei Cloud services and completed real-name authentication, skip this step.

2. Top up your account.

   Ensure that the account balance is sufficient. If not, **top up your account**.

Step 1: Create a Topic

1. Log in to the SMN console and go to the **Create Topic** page.
2. Configure topic parameters.

   In this example, only some parameters are described. Retain the default values for other parameters. For details about the parameters, see **Creating a Topic**.

   Figure 4-1 Create Topic

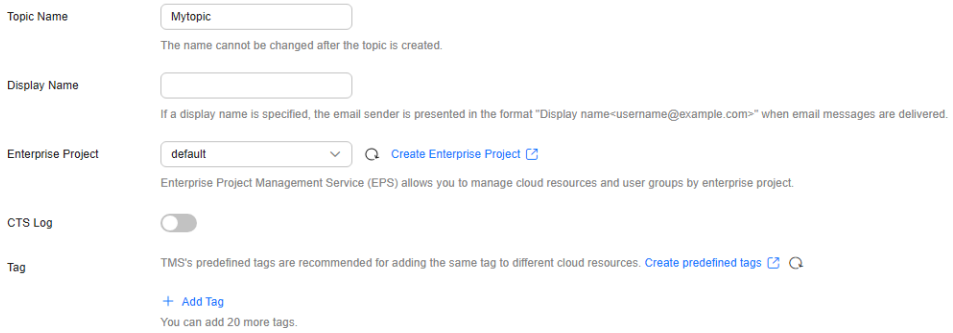

   Table 4-1 Parameters for creating a topic

Parameter	Example Value	Description
Topic Name	Mytopic	Specifies the name of the topic to be created.
Enterprise Project	default	This parameter is displayed only for enterprise users who have enabled enterprise project management.

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3. Click **OK.**

   After a topic is created, the system generates a topic URN, which uniquely identifies the topic and cannot be changed. The topic you created is displayed in the topic list.

Step 2: Add a Subscription

Add SMS and email subscriptions to the topic.

Adding an SMS Subscription

1. In the topic list, locate **Mytopic** and click **Add Subscription** in the **Operation** column.
2. Configure subscription parameters.

   In this example, only some parameters are described. Retain the default values for other parameters. For details about the parameters, see **Creating a Topic**.

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Figure 4-2 Add Subscription

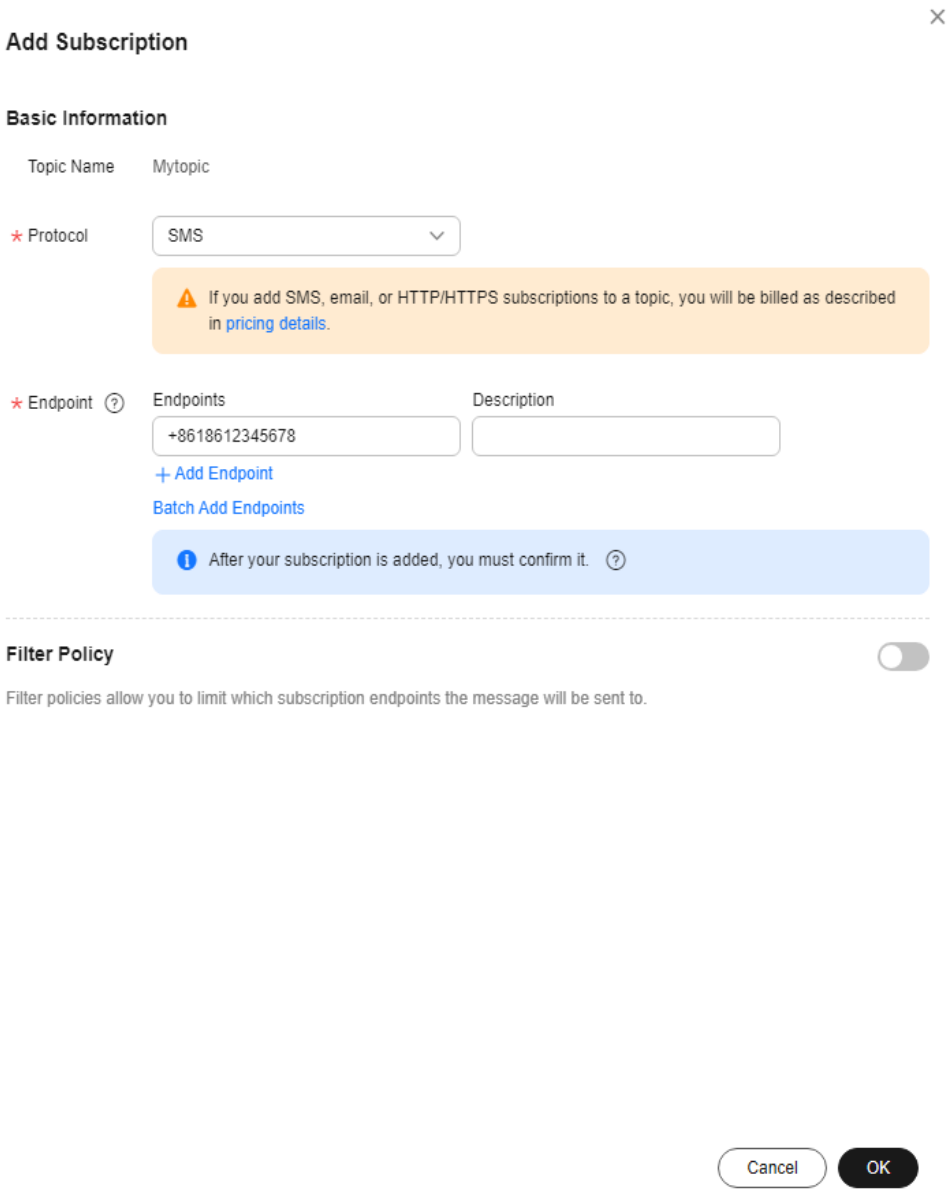

Table 4-2 Parameters for adding an SMS subscription

Parameter	Example Value	Description
Topic Name	Mytopic	Specifies the name of the topic you select to add subscriptions.
Protocol	SMS	Select **SMS** from the **Protocol** drop-down list. For more supported protocols, see **What Protocols Does SMN Support?**

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Parameter	Example Value	Description
Endpoint	+8618612345678	Enter a valid mobile number in the text box. • You can enter up to 10 endpoints, each on a separate line. • SMN does not check whether subscription endpoints exist when you add subscriptions.

3. Click **OK**.

   After a subscription is added, the subscription endpoint receives a confirmation message. The recipient needs to click the subscription confirmation link on the subscription endpoint to confirm that they agree to receive messages published to the topic. On the SMN console, you can see that the subscription status is **Confirmed**.

Adding an Email Subscription

1. In the topic list, locate **Mytopic** and click **Add Subscription** in the **Operation** column.
2. Configure subscription parameters.

   In this example, only some parameters are described. Retain the default values for other parameters. For details about the parameters, see **Creating a Topic**.

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Figure 4-3 Add Subscription

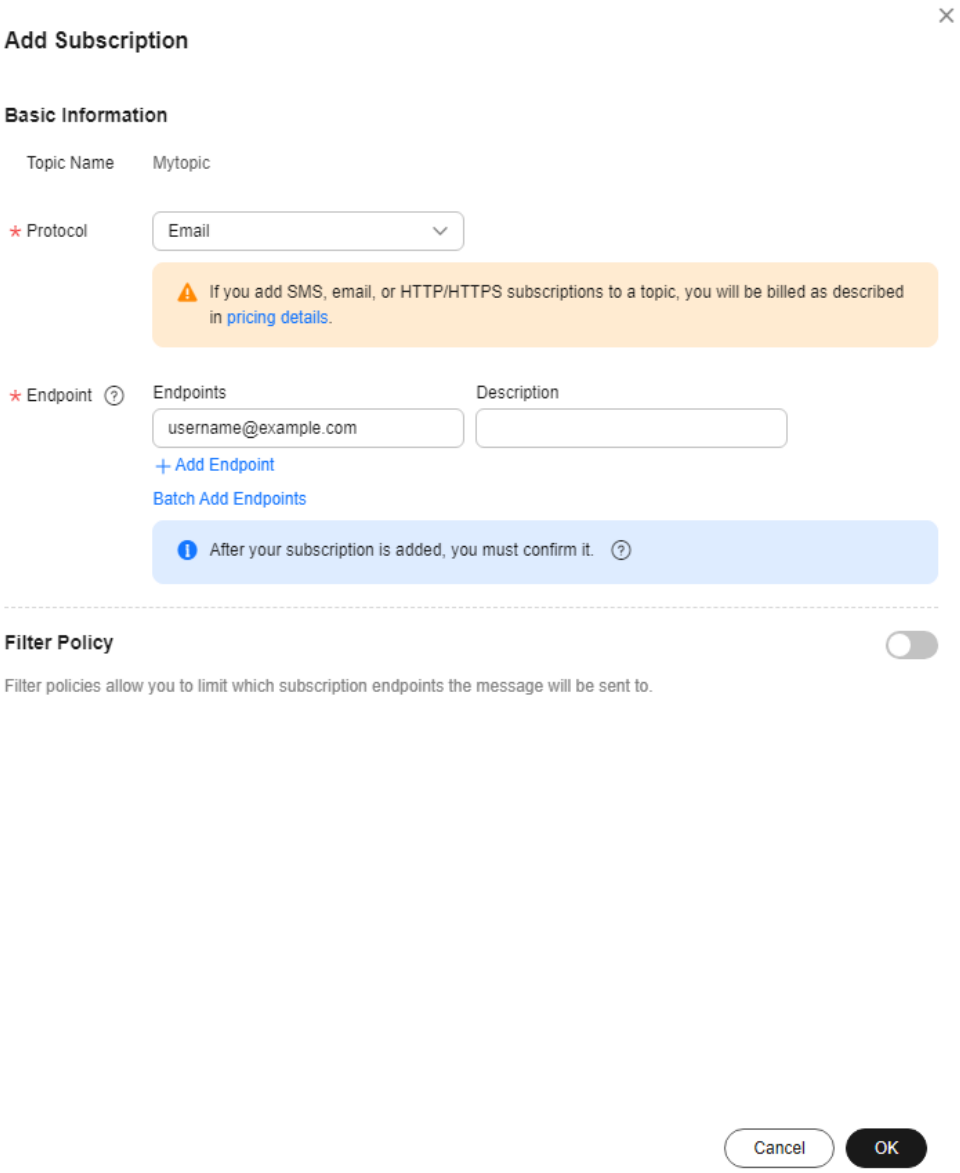

Table 4-3 Parameters for adding an email subscription

Parameter	Example Value	Description
Topic Name	Mytopic	Specifies the name of the topic you select to add subscriptions.
Protocol	Email	Select **Email** from the **Protocol** drop-down list. For more supported protocols, see **What Protocols Does SMN Support?**

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Parameter	Example Value	Description
Endpoint	**username@example.com**	Enter a valid email address in the text box. • You can enter up to 10 endpoints, each on a separate line. • SMN does not check whether subscription endpoints exist when you add subscriptions.

3. Click **OK**.

   After a subscription is added, the subscription endpoint receives a confirmation message. The recipient needs to click the subscription confirmation link on the subscription endpoint to confirm that they agree to receive messages published to the topic. On the SMN console, you can see that the subscription status is **Confirmed**.

Step 3: Create a Message Template

1. In the navigation pane on the left, choose **Topic Management** > **Message Templates**.
2. On the displayed page, click **Create Message Template** in the upper right corner.
3. Configure message template parameters.

   In this example, only some parameters are described. Retain the default values for other parameters. For details about the parameters, see **Message Template Management**.

   Figure 4-4 Create Message Template

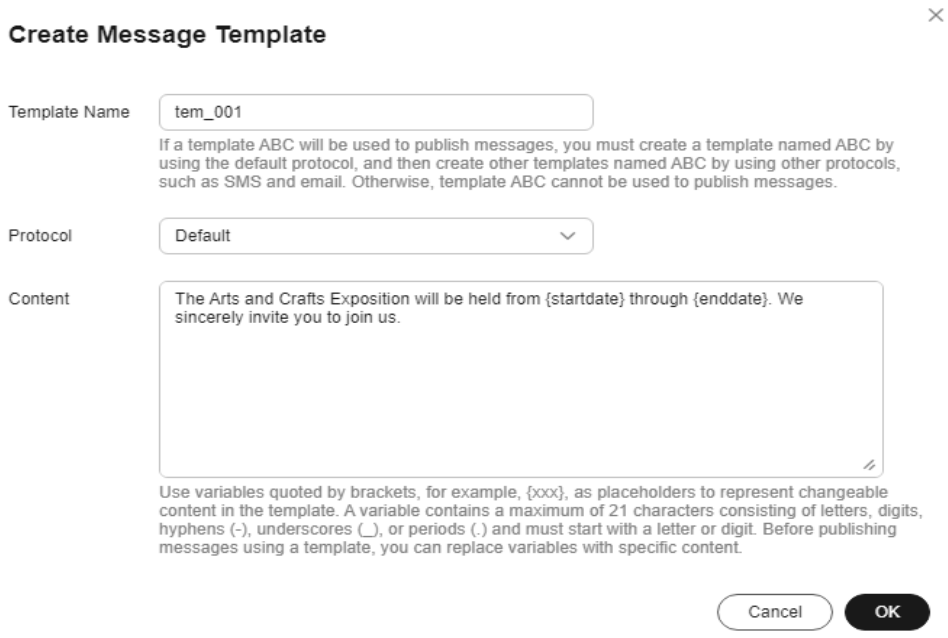

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Table 4-4 Parameters for creating a message template

Parameter	Example Value	Description
Template Name	tem_001	Specifies the name of the template to be created.
Protocol	• Default • SMS • Email	Create a message template named **tem_001** and select **Default**, **SMS**, and **Email** separately.
Content	**The Arts and Crafts Exposition will be held from {*startdate*} through {*enddate*}. We sincerely invite you to join us.**	Customize the template content. Use *{xxx}* as the placeholder to create a template. When you use this template to publish messages, replace *{xxx}* with specific content. *xxx* must start with a letter or digit and can contain up to 21 characters, including only letters, digits, hyphens (-), periods (.), and underscores (_).

4. Click **OK**.

   The template you created is displayed in the template list.

Step 4: Publish a Message

1. In the navigation pane on the left, choose **Topic Management** > **Topics**.
2. Locate **Mytopic** and click **Publish Message** in the **Operation** column.

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Figure 4-5 Publish Message

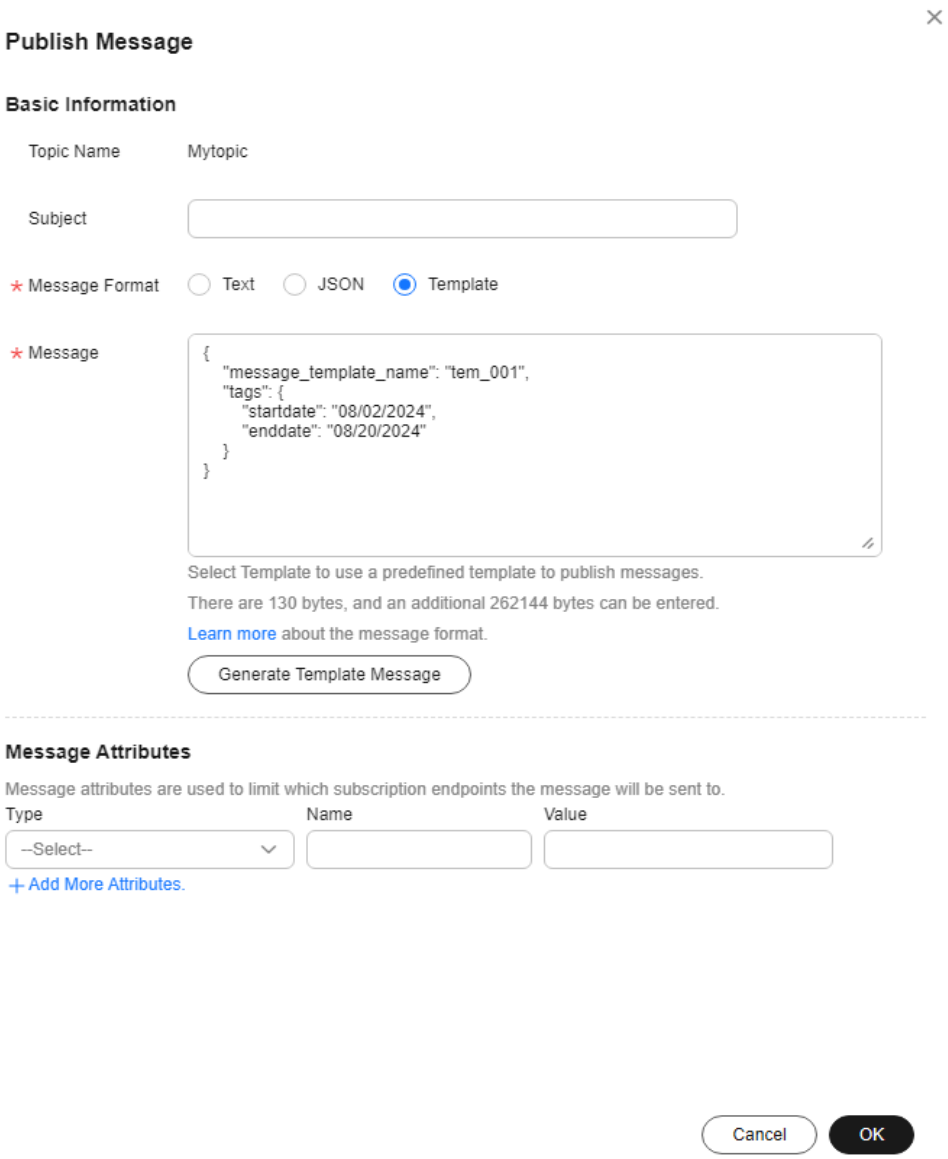

Table 4-5 Parameters for publishing a message

Parameter	Example Value	Description
Topic Name	Mytopic	Specifies the name of the topic you select to publish a message.
Message Format	Template	Specifies in which format messages will be sent.

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Parameter	Example Value	Description

Message	{
	"message_template_name": "tem_001",
	"tags": {
	"startdate": "08/02/2024",
	"enddate": "08/20/2024"
	}
	}
		You can manually enter a template message or click **Generate template Message** to automatically generate a message.
		For details, see **Template Message Format**.

3. Click **OK**.
   For details about messages, see **Messages Using Different Protocols**.

Step 5: Receive the Message

Subscription endpoints of different protocols receive different messages.

- SMS
  SMS messages only contain the message content.
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