

Simple Message Notification

Getting Started

Issue 01
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1 Making Preparations

Before you use SMN, make the following preparations:

- [Register with Huawei Cloud](#)

Registering with Huawei Cloud

Skip this part if you already have a Huawei Cloud account. If you do not have a Huawei Cloud account, perform the following steps to register one:

1. Visit the <https://www.huaweicloud.com/eu/> and click **Register**.
2. On the displayed **Huawei Cloud Account Registration** page, register an account as prompted.

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

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 <https://www.huaweicloud.com/eu/>.
2. Click **Register**.

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.

3 Publishing a JSON Message

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.

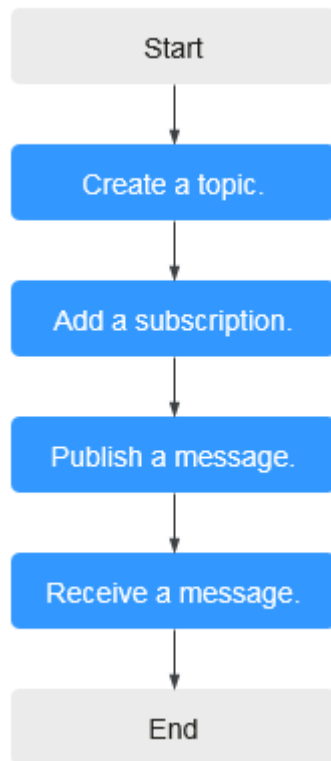
We will walk you through the following operations in the example:

- Create a topic **Mytopic**.
- Add SMS and email subscriptions to the topic.
- 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.


Operation Process

[Figure 3-1](#) shows the process to publish a JSON message.

Figure 3-1 Process to publish a JSON message



Step 1. Create a Topic

1. Log in to the management console.
2. Click  on the upper left to select the desired region and project.
3. Under **Application**, select **Simple Message Notification**.
The SMN console is displayed.
4. In the navigation pane, choose **Topic Management > Topics**.
5. In the upper right corner, click **Create Topic**.
6. Set **Topic Name** to **Mytopic**.

NOTE



For details about the parameter requirements, see [Creating a Topic](#).

7. 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.
8. Click the name of the topic to view its details, including the URN, display name, and subscriptions.

Step 2. Add a Subscription

1. In the navigation pane, choose **Topic Management > Subscriptions**.
2. On the **Subscriptions** page, click **Add Subscription**.

The **Add Subscription** dialog box is displayed.

3. Add an SMS subscription to a topic.
 - a. Click  beside the **Topic Name** box to select **Mytopic**.
 - b. Select **SMS** from the **Protocol** drop-down list.
 - c. In the **Endpoint** box, enter the subscription endpoint **+8618512345678**.
Enter one endpoint on a separate line.
 - d. Click **OK**.
4. Add an email subscription to a topic.
 - a. Click  beside the **Topic Name** box to select **Mytopic**.
 - b. Select **Email** from the **Protocol** drop-down list.
 - c. In the **Endpoint** box, enter the subscription endpoint **username@example.com**.
Enter one endpoint on a separate line.
 - d. Click **OK**.

After a subscription is added, the subscription endpoint receives a confirmation message. Confirm the subscription so that the endpoint can receive messages published to the topic.

NOTE

- For more details, see [Adding a Subscription](#).
- To prevent malicious users from attacking subscription endpoints, SMN limits the number of confirmation messages that can be sent to an endpoint within a specified period of time. For details, see section "Traffic Control on Subscription Confirmation" in *Simple Message Notification User Guide*.
- SMN does not check whether subscription endpoints exist when you add subscriptions. However, subscribers will not receive notification messages until they confirm their subscriptions.
- After you add a subscription, SMN sends a confirmation message to the subscription endpoint. The message contains a link for confirming the subscription. The subscription confirmation link is valid within 48 hours. Confirm the subscription on your mobile phone, mailbox, or other endpoints in time.

Step 3. Publish a Message

1. In the navigation pane, choose **Topic Management > Topics**.
The **Topics** page is displayed.
2. Locate **Mytopic** and click **Publish Message** in the **Operation** column.
3. On the **Publish Message** page, configure the following parameters:
 - **Topic Name:** The topic name is displayed by default.
 - **Message Format:** **JSON**
 - **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."
}
```


 NOTE

For more details, see [Publishing a JSON Message](#).

4. Click **OK** to deliver your message to all subscription endpoints.
For details about messages, see [Messages of Different Protocols](#).

Step 4. Receive the Message

Subscription endpoints of different protocols receive different messages.

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

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 the template and set values only for variables without having to edit the message content repeatedly.

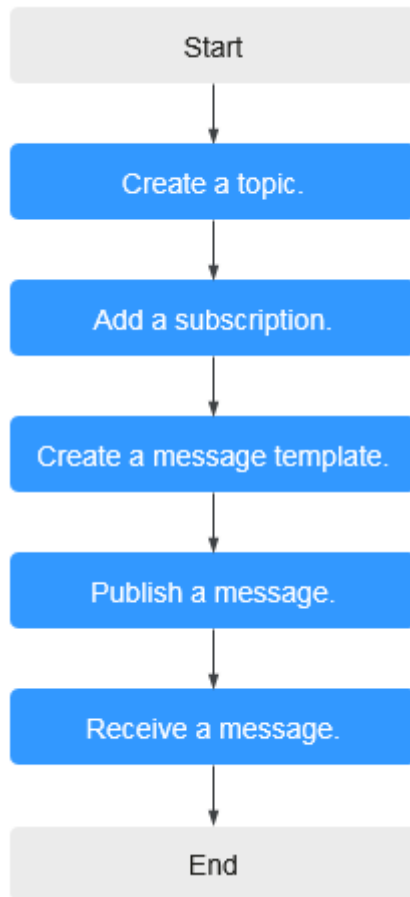
For example, your organization holds expositions regularly, and you need to notify people of the time. Except for the time, most part of the message remains unchanged. You can perform the following operations to send notifications:

- Create a topic **Mytopic**.
- Add SMS and email subscriptions to the topic.
- Publish message **The Arts and Crafts Exposition will be held from {startdate} through {enddate}. We sincerely invite you to join us.**
{startdate} indicates the date when the exposition is started. *{enddate}* indicates the date when the exposition is ended.


Operation Process

[Figure 4-1](#) shows the process to publish a template message.

Figure 4-1 Process to publish a template message



Step 1. Create a Topic

1. Log in to the management console.
2. Click  on the upper left to select the desired region and project.
3. Under **Application**, select **Simple Message Notification**.
The SMN console is displayed.
4. In the navigation pane, choose **Topic Management > Topics**.
5. In the upper right corner, click **Create Topic**.
6. Set **Topic Name** to **Mytopic**.

NOTE

For details about the parameter requirements, see [Creating a Topic](#).

7. 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.
8. Click the name of the topic to view its details, including the URN, display name, and subscriptions.

Step 2. Add a Subscription

1. In the navigation pane, choose **Topic Management > Subscriptions**.
2. On the **Subscriptions** page, click **Add Subscription**.
The **Add Subscription** dialog box is displayed.
3. Add an SMS subscription to a topic.
 - a. Click **+** beside the **Topic Name** box to select **Mytopic**.
 - b. Select **SMS** from the **Protocol** drop-down list.
 - c. In the **Endpoint** box, enter the subscription endpoint **+8618512345678**.
Enter one endpoint on a separate line.
 - d. Click **OK**.
4. Add an email subscription to a topic.
 - a. Click **+** beside the **Topic Name** box to select **Mytopic**.
 - b. Select **Email** from the **Protocol** drop-down list.
 - c. In the **Endpoint** box, enter the subscription endpoint **username@example.com**.
Enter one endpoint on a separate line.
 - d. Click **OK**.

After a subscription is added, the subscription endpoint receives a confirmation message. Confirm the subscription so that the endpoint can receive messages published to the topic.

NOTE

- For more details, see [Adding a Subscription](#).
- To prevent malicious users from attacking subscription endpoints, SMN limits the number of confirmation messages that can be sent to an endpoint within a specified period of time. For details, see section "Traffic Control on Subscription Confirmation" in *Simple Message Notification User Guide*.
- SMN does not check whether subscription endpoints exist when you add subscriptions. However, subscribers will not receive notification messages until they confirm their subscriptions.
- After you add a subscription, SMN sends a confirmation message to the subscription endpoint. The message contains a link for confirming the subscription. The subscription confirmation link is valid within 48 hours. Confirm the subscription on your mobile phone, mailbox, or other endpoints in time.

Step 3. Create a Message Template

1. In the navigation pane, choose **Topic Management > Message Templates**.
2. In the upper right corner, click **Create Message Template**.
The **Create Message Template** dialog box is displayed.
3. In the **Create Message Template** box, set the following parameters:
 - **Template Name:** **tem_001**
 - **Protocol:** **Default**
 - **Content:** **The Arts and Crafts Exposition will be held from {startdate} through {enddate}. We sincerely invite you to join us.**

When you publish the messages, you need to replace **{startdate}** with the exposition start time and **{enddate}** with the end time.

4. Click **OK**.

The template you created is displayed in the template list.

Step 4. Publish a Message

1. In the navigation pane, choose **Topic Management > Topics**.
The **Topics** page is displayed.
2. Locate **Mytopic** and click **Publish Message** in the **Operation** column.
3. On the **Publish Message** page, configure the following parameters:

- **Topic Name:** The topic name is displayed by default.
- **Message Format: Template**
- **Message:**

- i. Click **Generate Template Message**.
- ii. Select **tem_01** from the **Template Name** drop-down list.
- iii. On the **Variables** tab, specify **startdate** and **enddate**.

For example, set **startdate** to **02/01/2019** and **enddate** to **02/10/2019**.

NOTE

For more details, see [Publishing a Template Message](#).

- iv. Click **Preview** to preview the message.

In this example, the message generated is "**The Arts and Crafts Exposition will be held from 02/01/2019 through 02/10/2019**. We sincerely invite you to join us.

- v. Click **OK**.

The generated message contains the template name and variables.

4. Click **OK** to deliver your message to all subscription endpoints.

For details about messages, see [Messages of Different Protocols](#).

Step 5. Receive the Message

Subscription endpoints of different protocols receive different messages.

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

5 Change History

Released On	Description
2022-09-30	This issue is the first official release.