

# Alibaba Cloud

## Alibaba Cloud Message Queue for MQTT SDK Reference

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# Document conventions

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

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# 1.Demo project

Introduction Message Queue for MQTT Demo project, including the use of various application scenarios, please refer to the documentation comments of the program source code for understanding.

## Get multi-language Demo

For the complete set of sample code, see [mqtt-demo](#).

Decompress the package after the download is complete. The *lmq-demo* folder is added. Level-1 folders are categorized based on the development language. Perform debugging as needed.


scene	Download address
Example for sending and receiving MQTT messages separately	<a href="#">mqtt.demo.java</a>
MQTT signature example	<a href="#">mqtt.signature.mode.demo.java</a>
MQTT Token example	<a href="#">mqtt.token.mode.demo.java</a>
MQTT SSL encryption example	<a href="#">mqtt.ssl.demo.java</a>
Example for sending messages through MQTT and subscribing to messages in RocketMQ	<a href="#">mqtt.to.rocketmq.demo.java</a>
Example of RocketMQ sending MQTT subscription messages	<a href="#">rocketmq.to.mqtt.demo.java</a>
MQTT-based sending of ordered messages: RocketMQ-based subscription to ordered messages	<a href="#">mqtt.ordered.msg.demo.java</a>
Example of asynchronous online /offline notification on an MQTT client	<a href="#">mqtt.client.status.notice.demo.java</a>

## Demo usage instructions

If used in combination Message Queue for MQTT and other backend message storage products, such as

Message Queue for Apache RocketMQ

to understand the message structure and property mapping. For more information, see [Message structure mappings between Message Queue for MQTT and Message Queue for Apache RocketMQ](#).

 **Note** The demo project integrity may vary depending on specific languages, which will be updated in the future. If some features do not have any Demo, download the corresponding SDKs for the corresponding languages for testing. For more information, see [java examples](#).

## References

The sample code is for reference only. For more information about how to obtain the SDK in the relevant language, see [Download the SDK](#).

## 2. Download the SDK

In the use Message Queue for MQTT before sending and receiving messages, you must call the MQTT client Message Queue for MQTT download the corresponding SDKs for the supported development languages.

Message Queue for MQTT By default, AliwareMQ for IoT supports the standard MQTT 3.1.1 protocol and is theoretically compatible with all MQTT clients. However, some MQTT clients may still have compatibility issues.

The following table lists the recommended third-party SDKs for MQTT-based platforms.

Language or platform	Recommended third-party SDK
Java	<a href="#">Eclipse Paho SDK</a>
iOS	<a href="#">MQTT-Client-Framework</a>
Android	<a href="#">Eclipse Paho SDK</a>
JavaScript	<a href="#">Eclipse Paho JavaScript</a>
Python	<a href="#">Eclipse Paho Python SDK</a>
C	<a href="#">Eclipse Paho C SDK</a>
C#	<a href="#">Eclipse Paho C# SDK</a>
Golang	<a href="#">Eclipse Paho Golang SDK</a>
Node.js	<a href="#">MQTT-JS</a>
PHP	<a href="#">Mosquitto-PHP</a>

MQTT client SDKs in other languages are not available for testing. To download, please visit [mqtt.github](#).