

Huawei Cloud – sendQuick Cloud Integration Guide Version 1.0

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Alibaba Cloud Monitor – sendQuick Cloud Integration Guide

1.0 Introduction

1.1 About TalariaX Pte Ltd

TalariaX[™] develops and offers **enterprise mobile messaging solutions** to facilitate and improve business workflow and communication, and is widely used in areas such as IT alerts & notifications, secure remote access via 2-Factor Authentication, emergency & broadcast messaging, business process automation and system availability monitoring.

In addition to functionality, TalariaX's messaging solutions have also been developed with other key features in mind. These include **security** and **confidentiality** of company information, and **ease in mitigating disruption** during unplanned system downtime such as that arising from cyberattacks.

1.2 About sendQuick Cloud

sendQuick Cloud is a cloud based Software-as-a-Service (Saas) application to monitor and notify for cloud based incidents with omni-channel messaging capability. It has ability to monitor using ICMP Ping, Port check and URL check. It has policy based notifications using Email and Webhook, supporting any applications as well as Cloud Providers like AWS, Azure, Alibaba Cloud, Google Cloud, Huawei and Oracle. Given the above integration methods, sendQuick Cloud is able to work with any applications to send notifications. Supporting notification channels include SMS, Telegram, Slack, Facebook Messenger and others. Lastly, there is Roster for messaging based on duties and time frame for each recipient, reducing alert fatigue.

1.3 Purpose of Document

This document is a guide on how to integrate sendQuick Cloud with Huawei Cloud to send message notifications and alerts. In this guide, we will be using sendQuick Cloud for the integration.

Huawei Cloud, Simple Message Notification is accessible from the Huawei Clpud Console. You will need to login to Huawei Cloud Console and select Service List (on the Left Menu) and is presented with all the Huawei Cloud services options. Navigate to Application and Simple Message Notification. You will need to configure the Simple Message Notification (SMN) as found in the diagram below.



HUAWE	HUAWEI CLOUD Conso	le 🛛 Hong-Kong 🗸	Search	Q More English
=	Service List		Distributed Cache Service DCS	Data Encryption Workshop
@ &	Elastic Cloud Server Relational Database Service	Management & Deployment Cloud Eye Identity and Access Management	Distributed Message Service Distributed Message Service for Kafka	SSL Certificate Manager
AXA	Auto Scaling	Cloud Trace Service	Distributed Message Service for RabbitMQ Simple Message Notification	Migration Cloud Data Migration Server Migration Service
6	Bare Metal Server Elastic Volume Service	Tag Management Service	Application Operations Management	essage Nettication
0	Volume Backup Service	Enterprise Application	Blockchain Service API Gateway	El Enterprise Intelligence Conversational Bot Service
© ¢	Virtual Private Cloud Elastic Load Balance	Workspace	Cloud Performance Test Service	CloudTable Service
P	Elastic IP	Cloud Communications Message & SMS	Video MPC	Data Lake Insight ei∺ealth
		Enterprise Collaboration	IoT IoT Device Management	Huawei HiLens ModelArts
		Meeting	Intelligent EdgeFabric	Video Ingestion Service

In Huawei Cloud Simple Message Notification (SMN), you can send Alert via Email (SMTP) and Webhook (HTTP) method. This document will explain both methods in details in the following sections.

2.0 Configure in sendQuick Cloud

sendQuick Cloud (sendQuick) is designed to complement the systems, virtual instances, devOps and other applications on the cloud for sending message notifications when an event happen. This will your services uptime for your cloud services.

2.1 Email Filters in sendQuick Cloud

sendQuick Cloud can receive any emails (SMTP) from any applications, apply the configured filters (policies) and if the condition matches, messages will be sent to the recipients. When starting to configure, create an account in sendQuick and go to **Email Filter** (left Menu) and **Create New Mail Filter Rule**. You will be presented with the interface as shown below.

You will notice the Email Address **TO** as the first Policy item. The email address is preassigned by sendQuick and will follow the name of your account name. This email address cannot be changed and will be used to configure in Cloud Monitor as explained in section 3.1.



democompany	sendQuick [®] onClou	ud 🔯 English 🛇	• O Alerts •
8	Email Filter / New Filter Rule	Create New Mail Filte	r Rule
democompany (Super Admin)		orcate new main rinte	i ituic
MANAIVTICS >	То :	democompany@staging.sendquickoncloud	Trigger aler
₩User >	From :		Trigger ale
Device >	□ Subject :		Trigger ale
Cloud Providers			
Network Monitor	☐ Message :		Trigger aler
T Email Filter			
Message Broadcast		h	
Configuration Template	Match Mode :	All [®] Any ^O	 All - the rules match Any - the rules match

Email Address TO, sending to sendQuick Cloud

2.2 Cloud Provider in sendQuick Cloud using Webhook

The second method to integrate between Cloud Monitor and sendQuick is using Webhook method. This is via an Application Programming Interface (API) where the event information is sent to sendQuick and sendQuick will process and check against the preconfigured policies (conditions). If the conditions are met, it will trigger an alert to the assigned users.

In summary, the flow is as below:



The webhook to send to sendQuick is found on the Service Configuration for Cloud Provider in sendQuick. This is depicted in interface below.



	democompany)	
	Lul Analytics	>	
	₩User	>	
		>	
	Cloud Providers	~	
	C-J Alibaba Cloud		
	Microsoft Azure		
\langle			\triangleright
	ORACLE		
	-≣Network Monitor		

Chose the Cloud Provider as shown on the left Menu in the diagram above.

Copy the Integration URL as shown on the top of the Integration page. This is the URL to be configured in SMN as shown in section 4.0.

sendQuick® on <mark>C</mark> lo	ud	🐚 English 🗸	O Alerts -		& Change P
Cloud Providers / Huawei					
	Integration Key :	e42a79c7546b33fa00)a52bcec59ae	Сору	
	Integration URL :	https://staging.sendqu	uickoncloud.cc	Сору	
Create Huawei Rule					
Show 10 ~ entries					Search:



3.0 Configure Huawei Cloud SMN Alert Subscription

When any event happens or there is a need to send a notification alert, Huawei Cloud can trigger an email to sendQuick Cloud (sendQuick). sendQuick will then convert the email message to alerts and send to mobile phone based on the policy (filter) rules assigned. The email messages are sent from Huawei Cloud to sendQuick for processing.

In Huawei Cloud, the first configuration is to configure the Subscriptions (which is the contact details or alert methods) creating the recipient list to receive the notifications. Since sendQuick is used to manage the recipients on the different channels, you just need to configure one (1) email in Subscription. This is explained below.

3.1 Configure Email and WebHook for sendQuick in Huawei Cloud

On the main page of Huawei Cloud, select **SMN** to start the process. Before this you need to create a Topic first. Choose Topic and Ceate Topic and you will see the topic creation in Figure below.

HUAWEI CLOUD	• Hong-Kong •	Console Ser	vice List 👻 Favorites		Q	More talariaxsen 🖻 🕚
	Topics ③					+ Create Topic
SMN		Create Top	pic	×		Enter a name. Q C
Dashboard	Name	di Tania Maran	HuaweiNotificationEmail	0		Operation
Topic Management	^ huawei_tes	* Topic Name	The name cannot be changed after the topic is created.	0		Publish Message More 🔻
Topics	test_testur	Display Name	Huawei Notification Email	0		Publish Message More 🔻
 Subscriptions 	test_email	Display Name	Huawer Hotheatton Enfan	v		Publish Message More 🔻
Message Templates			OK Cancel			
Mobile Push		_		_		

Create a New Topic

Provide a topic name and display name and click OK. A new topic is created and can be used in the next step.

Now choose **Subscription** and on the top right corner, select **Add Subscription** and you will see the option shown in the Figures below. Select the Topic (which was created earlier) and the required protocol options.



Topics >	HuaweiNotifica	itionEmail	Add Subscription	Publish Message
Tor	Add Sub	oscription		×
Торіс	Topic Name	HuaweiNotificationEmail		4bbd
Displa	Protocol	Email	-	۲+08:
Subsc	Endpoint 🧭	SMS Email		
Sub		HTTP		
		HTTPS		
Re		DMS		
		Application		indpo
C		ОК	ncel	Oper

Select the Protocol which is Email

Select the Email Protocol and then insert the End Point email address, which is the email address from sendQuick Cloud.

1	Add Subs	scription	×
	Topic Name	HuaweiNotificationEmail	
E	Protocol	Email	[
	Endpoint 🝭	democompany@sg.sendquickoncloud.com	
		OK Cancel	

Insert Email Address from sendQuick Cloud

Once completed, select **OK.** You may be required to create or select a Topic. This will create the new contact and an email will be sent to the recipient (in this case sendQuick Cloud) for verification.

Now, you can go to sendQuick, navigate to **Mail Filter** and then **Inbox**. Select **Inbox** and you will see the email form Huawei for verification.





Show 10 ~ entries	v entries Search:		
↓† From	↓† Subject	↓↑	Date & ↓↑ Time
no-reply@sns.amazonaws.com	AWS Notification - Subscription Confirmation	You have chosen to subscribe to the topic: arn:aws:sns:us-west- 1:064352110866:test To confirm this subscription	26 Jan 2021, 16:33 PM
monitor- sg@monitor.alibabacloud.com	Alibaba Cloud Monitor- Email activation code	Alibaba Cloud Monitor-Email check code	26 Jan 2021, 16:27 PM
noreplylf02@mail01.huawei.com	SMN-Confirming Your Subscription	Dear Sir or Madam,Welcome to Simple Message Notification (SMN) service.You are invited to subscribe to the topic:	26 Ian 2021, 16:03 PM
noreply@notification.us- phoenix-1.oci.oraclecloud.com	Oracle Cloud Infrastructure Notifications Service Subscription Confirmation	You have chosen to subscribe to the topic: test_email (Topic OCID: ocid1.onstopic.oc1.phx.aaaaaaaa7thq7mckml4betyzc	26 Jan 2021, 15:42 PM
noreply@potification us-	Oracle Cloud	Please do not reply directly to this email. If you have any questions or	26 Jan

Select the email from Huawei and the message details will be shown. Click on the Confirm Subscription link and the confirmation/verified page will confirm the process.

rom : noreplylf02@mail01.h	Your Subscription	26 Jan 2021, 16:03 PM	_
You are invited to s urn:smn:ap-so After confirmation, uded in these mes Click the following Confirm Subscripti	Message Notification (SMN) service. ubscribe to the topic: utheast-1:0a4bbdefe00025492f19c01cec14 you will receive messages posted to this topic via ema sages. URL to confirm your subscription: (If you don"t want to	il. Instructions on how to cancel notifications will be incl	Click and ema is confirmed, a shown Huawei page
You (democor	Subscription Su npany@staging.sendquickoncloud.com) have successfully If you do not want to subscribe to the topic, click h	v subscribed to the following topic: EmailTest .	
	Topic URN urn:smn:ap-southeast-1:0a4bbdefe000254	92f19c01cec141a9e:EmailTest	
	urn:smn:ap-southeast-1:0a4bbdefe00025492f19c01cec	41a9e:EmailTest:537a4dfcfd134a0e9cee389490e5	
Subscription URN	2612		

Once confirmed, the email is ready to use.



Now we can repeat the same process for HTTPS Webhook. Create a new Topic and Save. Add Subscription and now choose HTTPS.

Create Top	bic	×		Enter a name.	Q
* Topic Name	HuaweiNotificationHTTPS	0		Operation	
	The name cannot be changed after the topic is created.		il	Publish Messag	e More
Display Name	Huawei Notification HTTPS	0		Publish Messag	e More
		J		Publish Messag	e More
	OK Cancel			Publish Messag	e More

Add HTTPS Webhook Topic

HuaweiNo	tificationHTTPS	Add Subscriptio	n Publish Me
Deta	Add Subs	scription	×
me	Topic Name	HuaweiNotificationHTTPS	4bbdefe
lame	Protocol	HTTPS •	-+08:00
tions riptions	Endpoint 🕜	https://staging.sendquickoncloud.com/huawei/huawei_proces s.php? coy=democompany&key=e42a79c7546b33fa00a52bcec59ae4 b196bd6b3823f5daafd2a93a8ff4db5888	
est Conf			Enter
Subscriț		OK Cancel	

The endpoint information is from the URL found in sendQuick in Section 2 above. Copy the URL and paste in the Endpoint information above. The click OK. The Huawei will verify the webhook automatically and once Verified, will be ready to use.

K HuaweiNotificationHTTPS			А	dd Subscription	Publish Message	Configure To
Topic Details						
Topic Name HuaweiNotificationHTTPS		URN urn:smn:ap-southeast-1:0a4bbdefe00025492f19c01cec141a9e:HuaweiNotificationHTTPS				
Display Name Huawei Notification HTTPS 🖉		Created Dec 08, 2020 23:02:51 GMT+08:00				
Subscriptions						
Request Confirmation Delete	AI	protocols	✓ All statuses	•	Enter an endpoint.	Q
Subscription URN	Protocol	Endpoint	Description	Status	Operation	
um:smn:ap-southeast-1:0a4bbdefe00025492f19c01cec141a9e:HuaweINotIfica	HTTPS	https://staging.se	huawel	🕑 Confirmed	Request Confirmation	Delete



4.0 Configure Notification Rules with SMTP and Webhook

Once you had completed the steps in Section 3, you are ready to configure the Rules to receive notifications. Select any of the applications that you desire, example **Application Performance Management**. Select **Alarm Centre** and **Notification Rules**.

Select Create Notification Rule on the top right corner and you can insert the relevant details in the rule (as shown below).

HUAWE	HUAWEI CLOUD	Console	♦ Hong-Kong	V	Search		Q	More English	talariaxsendquick	
	Overview	Ŧ	Notification Rules ⑦						+ Create Notificatio	n Rule
@ ස	Alarm Center Alarm List	•	To Delete	Create N	otification Rule	×		Enter a rule n Operatio		С
~~ ©	Event List Alarm Rule Notice Rule			Rule Name Alarm Type	Select alarm type					
0 ()	Monitoring	• •		Торіс	Select topic (s)					
Ð	Configuration Management Application Performance Management Help Center	• &		Cluster	Ensure that APM is selected as one of the services that can publish messages to the topic when configuring a topic policy on the SMN page For details, see Configuring Topic Policies.	<u>.</u>				Ċ
	nup conci				Create Cancel					

Provide a **Rule Name** and select the **Alarm Type**. In the Topic, you can see the topics that were created earlier in Section 3. Or you can create a new Topic by selecting the Create SMN Topic and the process as described in Section 3 will follow.

Create No	otification Rule	×
Rule Name	Monitoring Alarm	
Alarm Type	CCE Autoscaler Alarm	the same type
Торіс	HuaweiNotificationHTT S	C
	HuaweiNotificationHTTPS HuaweiNotificationEmail huawei_test	vices that can publish ic policy on the SMN page.
Cluster	test_testurl	С
	Create Cancel	



You can select one or multiple topics (which can be Email or webhooks) to be triggered when the event is triggered.

When event is triggered, it will send Email (if chosen) or webhook (if selected) or both to sendQuick Cloud. In sendQuick Cloud, you can configure the filtering mechanism and policy rules to send only relevant messages to mobile devices, reducing alert fatigue while sending messages important messages to the recipients. You can configure all the filter/policies and user roster to receive the alerts on their phones. For more sendQuick Cloud configuration, refer to sendQuick Cloud User Manual or Video Tutorial.