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# **APC Data Center Expert – sendQuick Integration Guide**

## **Version 1.0**

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# REVISION SHEET

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## Table of Contents

<b>1.0 Introduction</b>	<b>4</b>
1.1 About TalariaX Pte Ltd	4
1.2 About sendQuick	4
1.3 Purpose of Document	4
<b>2.0 Send Email to sendQuick (SMTP)</b>	<b>5</b>
2.1 Configure Email Filter in sendQuick	5
2.2 Configure Email Settings in Data Center Expert	8
2.3 Configure Alarm Actions in Data Center Expert to send Email	9
<b>3.0 Send SMS via HTTP Method</b>	<b>13</b>
3.1 Configure Alarm Action in Data Center Expert to send SMS	13
<b>4.0 Send SNMP Trap to sendQuick</b>	<b>17</b>
4.1 Configure SNMP Trap Filter in sendQuick	17
4.2 Configure Alarm Action in Data Center Expert	20

# APC Data Center Expert - sendQuick 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

**sendQuick** is a comprehensive Short Messaging Service (SMS) and Mobile Instant Messaging (MIM) gateway that is available in the form of an **appliance** or as a **cloud-based** solution. **sendQuick** is used by more than 1,500 businesses, including many Fortune Global 500 companies, in 40 countries and across industries such as banking, finance, insurance, manufacturing, retail, government, education, and healthcare.

### 1.3 Purpose of Document

This document provides steps on how to integrate sendQuick with APC (Schneider Electric) Data Center Expert to send SMS alerts. In this guide, we will be using sendQuick Alert Plus for the integration.

There are three ways to send alert messages from Data Center Expert to sendQuick systems. You can use any of the following methods:

- SMTP Delivery (Email Method)
- SMS Delivery (HTTP Method)
- SNMP Trap

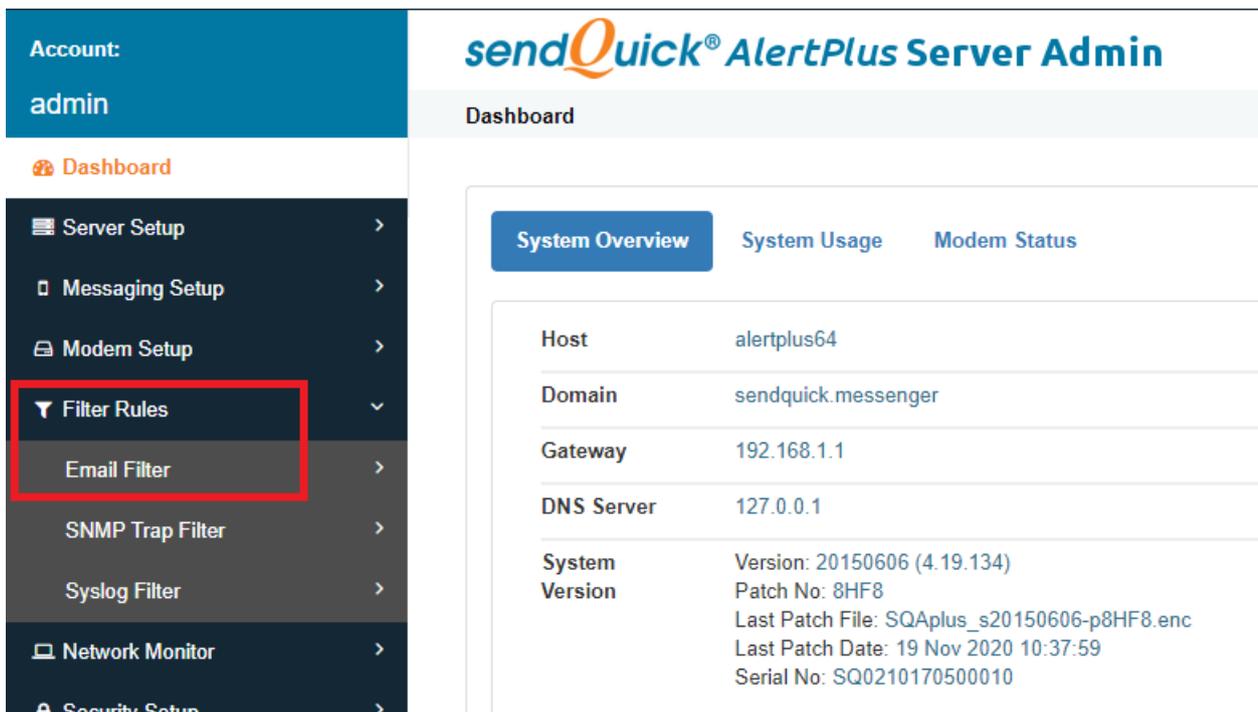
## 2.0 Send Email to sendQuick (SMTP)

When any device is down or there is a need to send a notification alert, Data Center Expert can trigger an email to sendQuick. sendQuick will then convert the email message to SMS.

### 2.1 Configure Email Filter in sendQuick

sendQuick allows you to configure alerts to be sent to multiple phone numbers, groups or even combination of Emails and SMS. To explore this feature, navigate on the sendQuick dashboard to:

**Filter Rules > Email Filter**



sendQuick® AlertPlus Server Admin	
Dashboard	
System Overview	
Host	alertplus64
Domain	sendquick.messenger
Gateway	192.168.1.1
DNS Server	127.0.0.1
System Version	Version: 20150606 (4.19.134) Patch No: 8HF8 Last Patch File: SQAplus_s20150606-p8HF8.enc Last Patch Date: 19 Nov 2020 10:37:59 Serial No: SQ0210170500010

Figure 1: sendQuick Dashboard

Click on **Add New Record**.

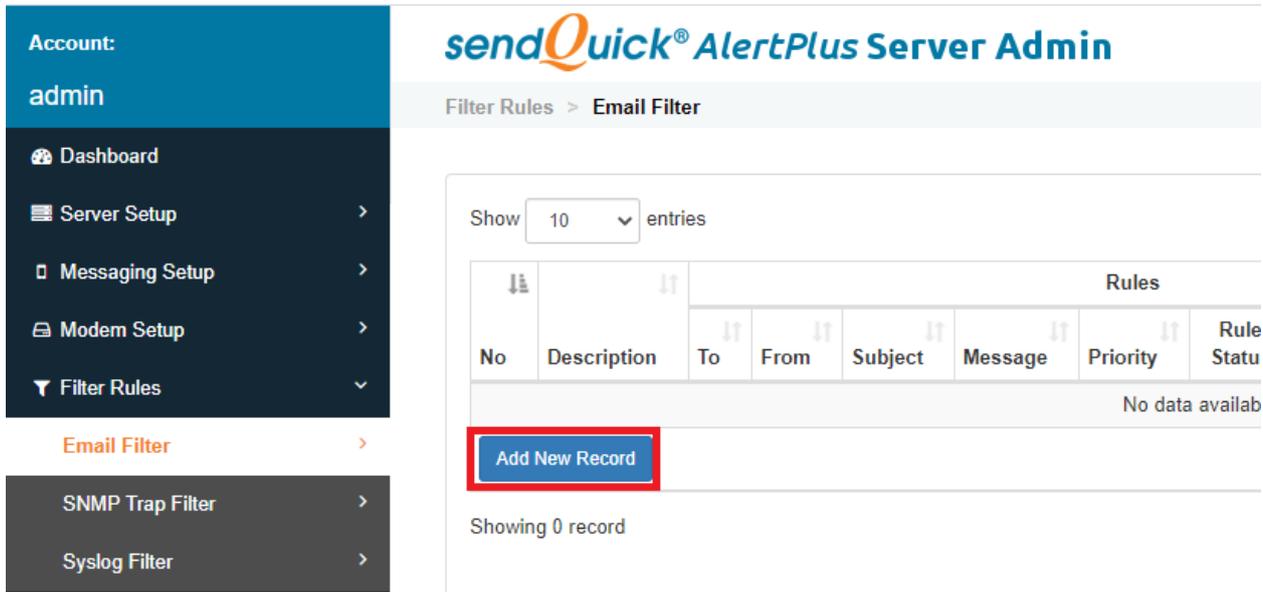


Figure 2: Email Filter Page

You can then create a new record to define the email address Data Center Expert should send to in the format of [anymame@sendQuickIP](mailto:anymame@sendQuickIP) (in our example, we will use [alerts@192.168.1.96](mailto:alerts@192.168.1.96))

Fill in the **Description**, **Mail To** and for **Match Mode**, check **ANY**

Once done, click **Save**.

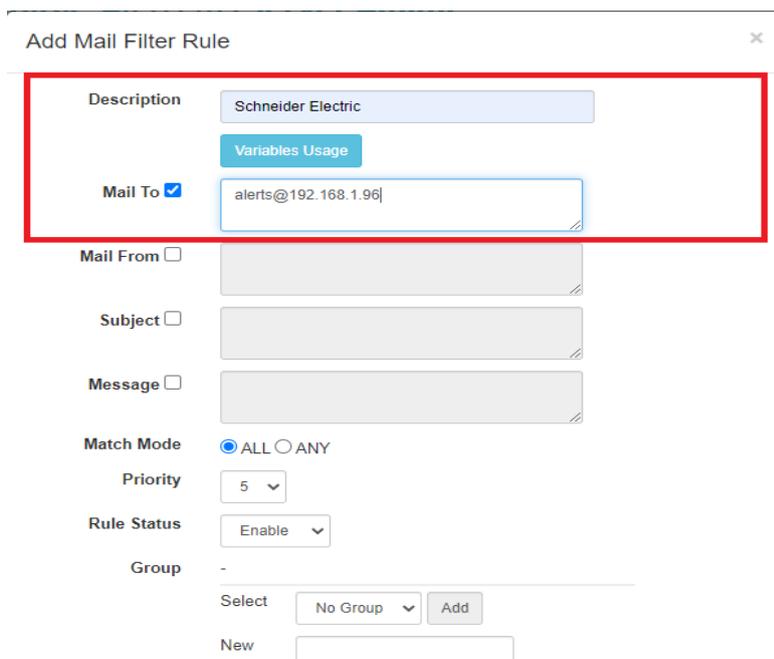


Figure 3: Add Email Filter Rule Page

Click on **View** for the record that you have created

No	Description	To	From	Subject	Message	Priority	Status	Group	Buffer	Created	Match	Alert	<input type="checkbox"/>
1	Schneider Electric 	alerts@192.168.1.96				5	Enable		Yes	15/12/2020	ALL	<a href="#">View</a> 	<input type="checkbox"/>

Figure 4: View Record

Click on **Add New Record**

Show  entries Search:

No	Message Receiver	Alert Template	Edit	<input type="checkbox"/>
No data available in table				
<a href="#" style="border: 1px solid red; padding: 2px 5px;">Add New Record</a>				<input type="button" value="Delete"/>

Showing 0 record

Figure 5: Add New Record

Add in the phone number to receive the alerts under **Mobile Number to Receive Alert**.

This is the page to also add other phone numbers, emails or groups to receive the same notification alerts. Once completed, click on **Save**.

**Alert Receiver**

**Mobile Number to Receive Alert**

901234567  
890123456  
912345678  
891234567

**Email to Receive Alert**

**Voice to Receive Alert**

**Group to Receive Alert**

Figure 6: Add Mobile Numbers

## 2.2 Configure Email Settings in Data Center Expert

To configure the Email Settings in Data Center Expert, navigate to the following

### System > Server Administration Settings > E-mail Settings

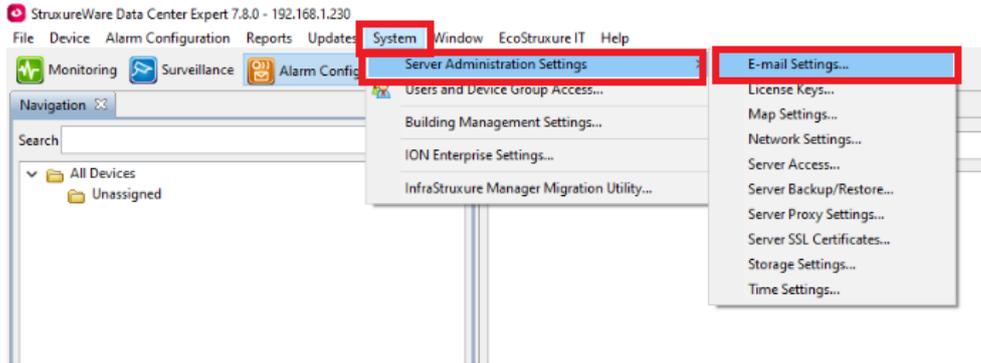


Figure 7: Data Center Expert Dashboard

Enter any email address of your choice (in this example, we are using [SchneiderElectric@company.com](mailto:SchneiderElectric@company.com)) under “From” address.

Enter the IP address of a sendQuick device (in this example, we are using [192.168.1.96](http://192.168.1.96)) under **SMTP Server**

By default, the **Port** number will be 25. Click **OK**

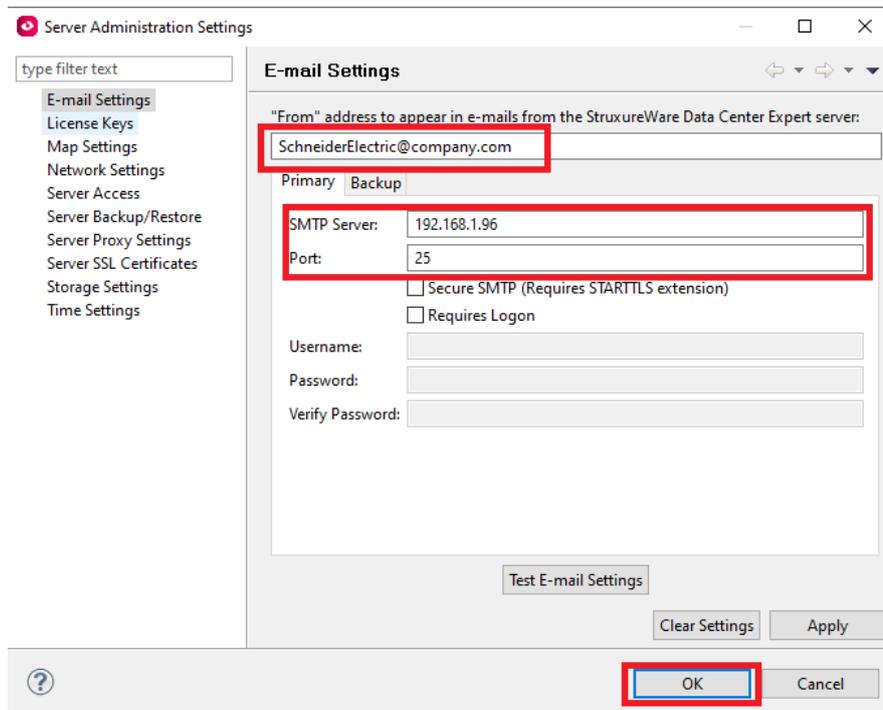


Figure 8: Email Settings Page

### 2.3 Configure Alarm Actions in Data Center Expert to send Email

Next, configure the alarm actions. In the Data Center Expert dashboard, navigate to

#### Alarm Configuration > Manage Alarm Actions

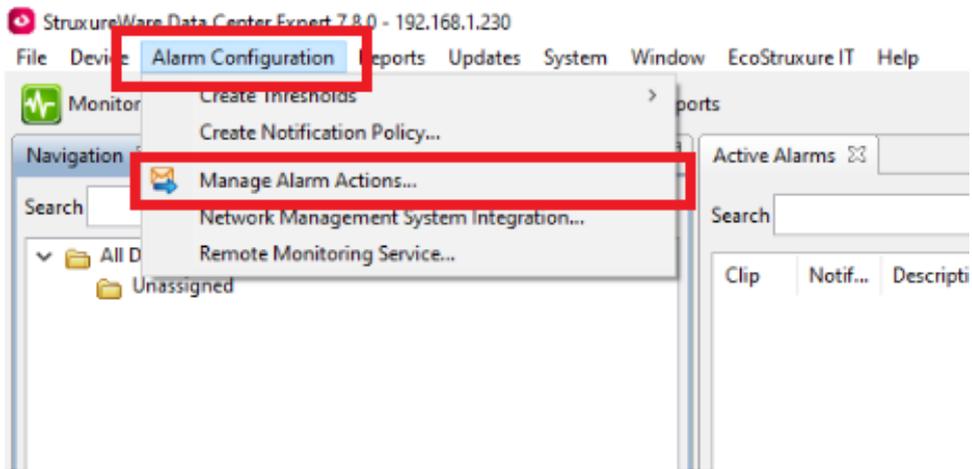


Figure 9: Data Center Expert Dashboard

Click on **Create**

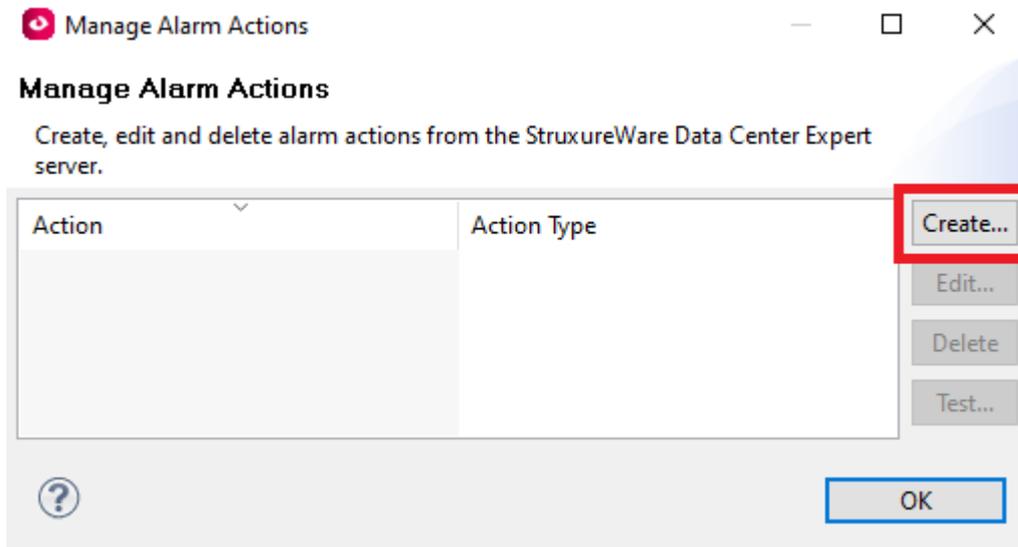


Figure 10: Manage Alarm Actions Page

Select **Send E-mail** under **Alarm Action Type** and click **Next**

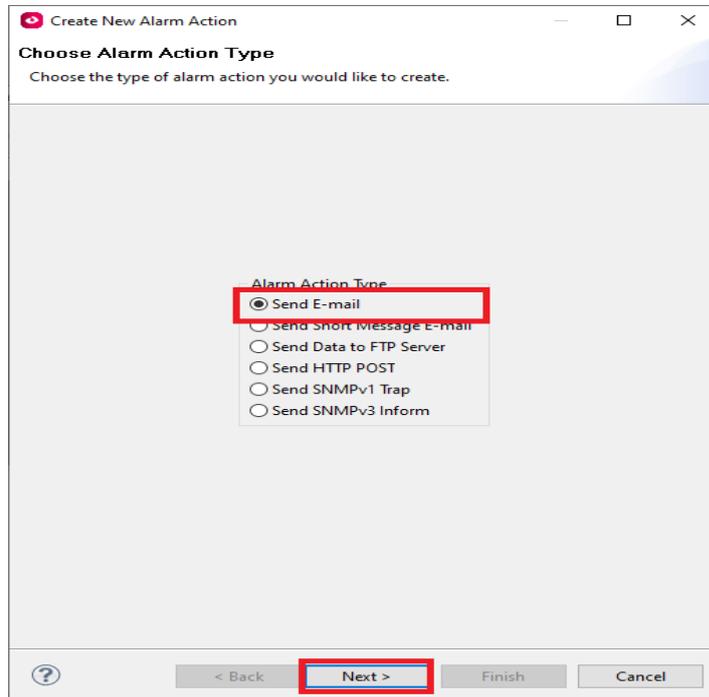


Figure 11: Create New Alarm Action Page

Enter any name under **E-mail Action Name** and click **Add**

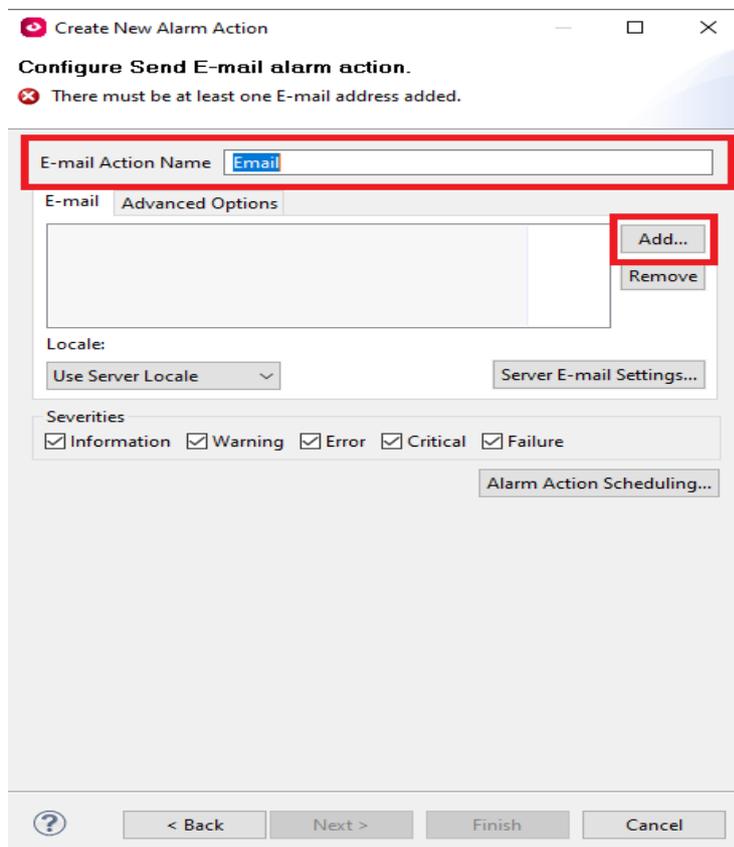


Figure 12: Configure E-mail Alarm Action

For the e-mail address, enter the email that was configured as the email address that was used in the Email Filter in Figure 3 and click **OK**

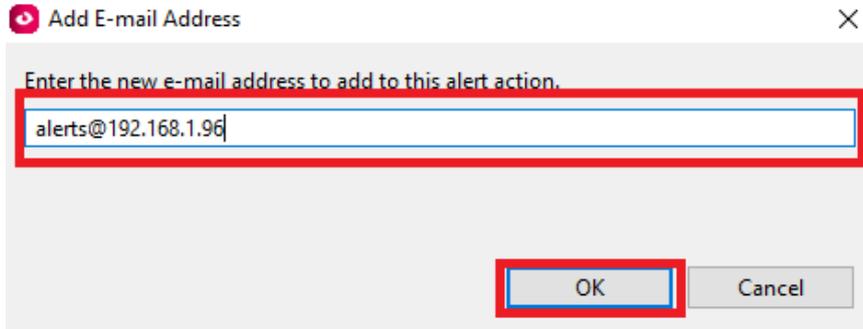


Figure 13: Add E-mail Address

Click **OK**

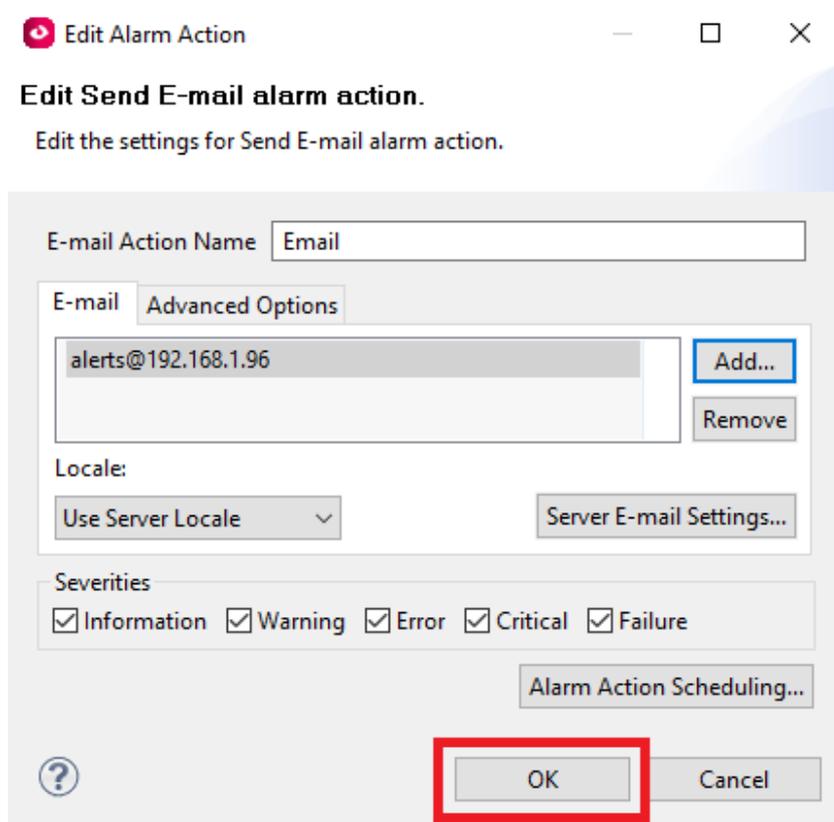


Figure 14: Save E-mail Alarm Action

Select the **Email** Action and click **Test...**

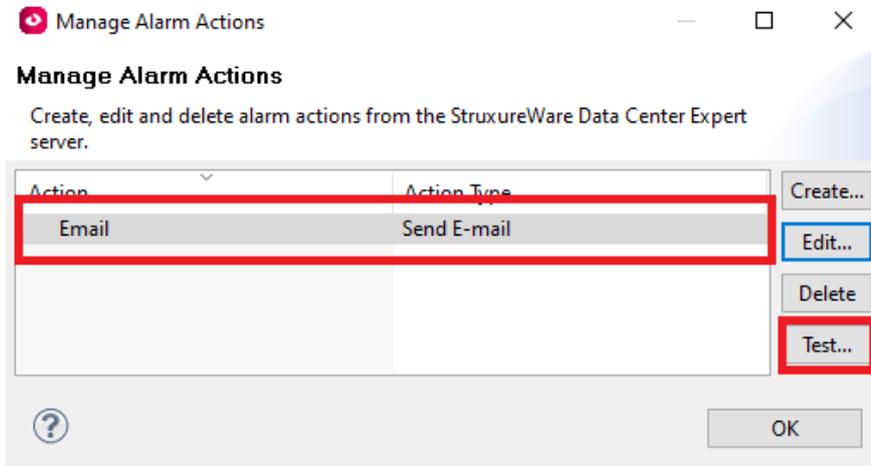


Figure 15: Test Email Alarm Action

If successful, a popup will appear as shown below:

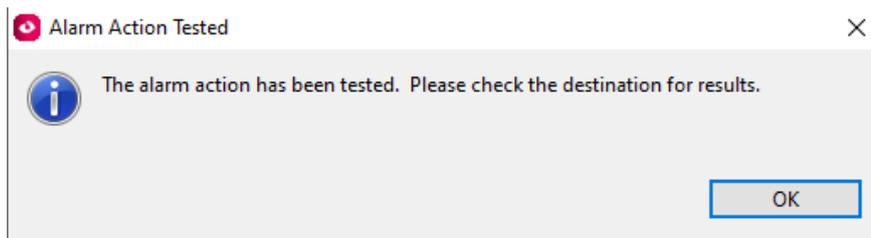


Figure 16: Test Successful on Data Center Expert

To confirm that sendQuick has subsequently received the email and sent out as SMS, go to sendQuick dashboard. Navigate to:

**Usage Logs > Message Logs**

Click on the **SMS** tab. If there is a corresponding entry in the logs, that means the SMS text was sent successfully.

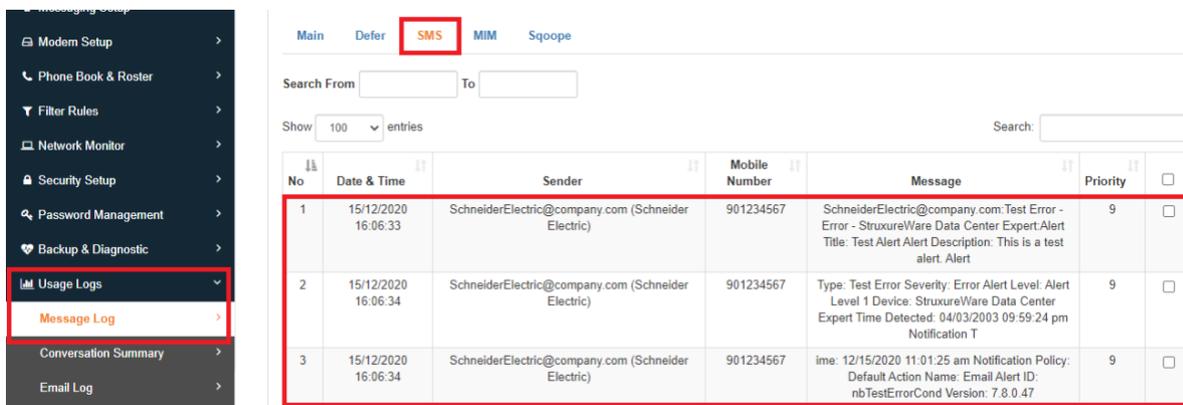


Figure 17: Test Successful on sendQuick

### 3.0 Send SMS via HTTP Method

Similarly, notification alerts can be sent to sendQuick from Data Center Expert via HTTP method. For this method, no configuration is needed in sendQuick.

#### 3.1 Configure Alarm Action in Data Center Expert to send SMS

In the Data Center Expert dashboard, navigate to

#### Alarm Configuration > Manage Alarm Actions

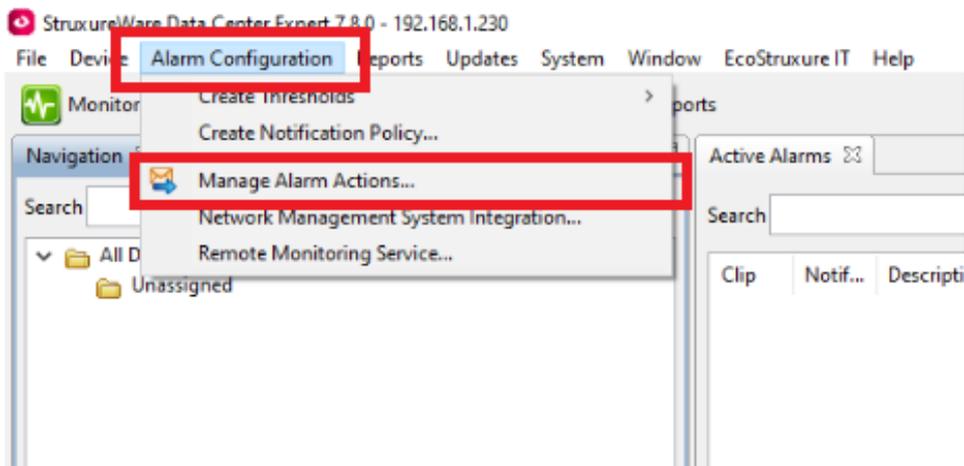


Figure 18: Data Center Expert Dashboard

Click on **Create**

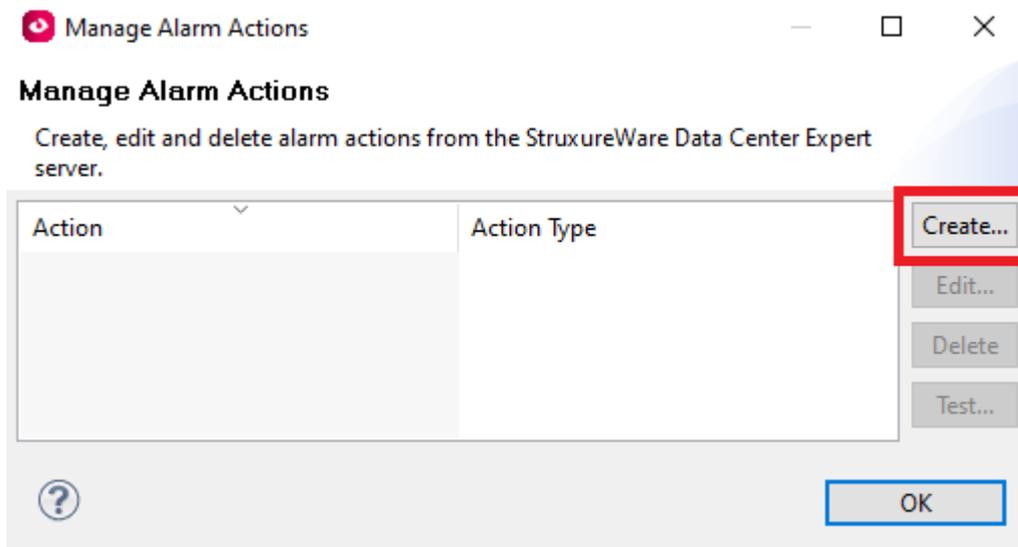


Figure 19: Manage Alarm Actions Page

Select **Send HTTP POST** under **Alarm Action Type** and click **Next**

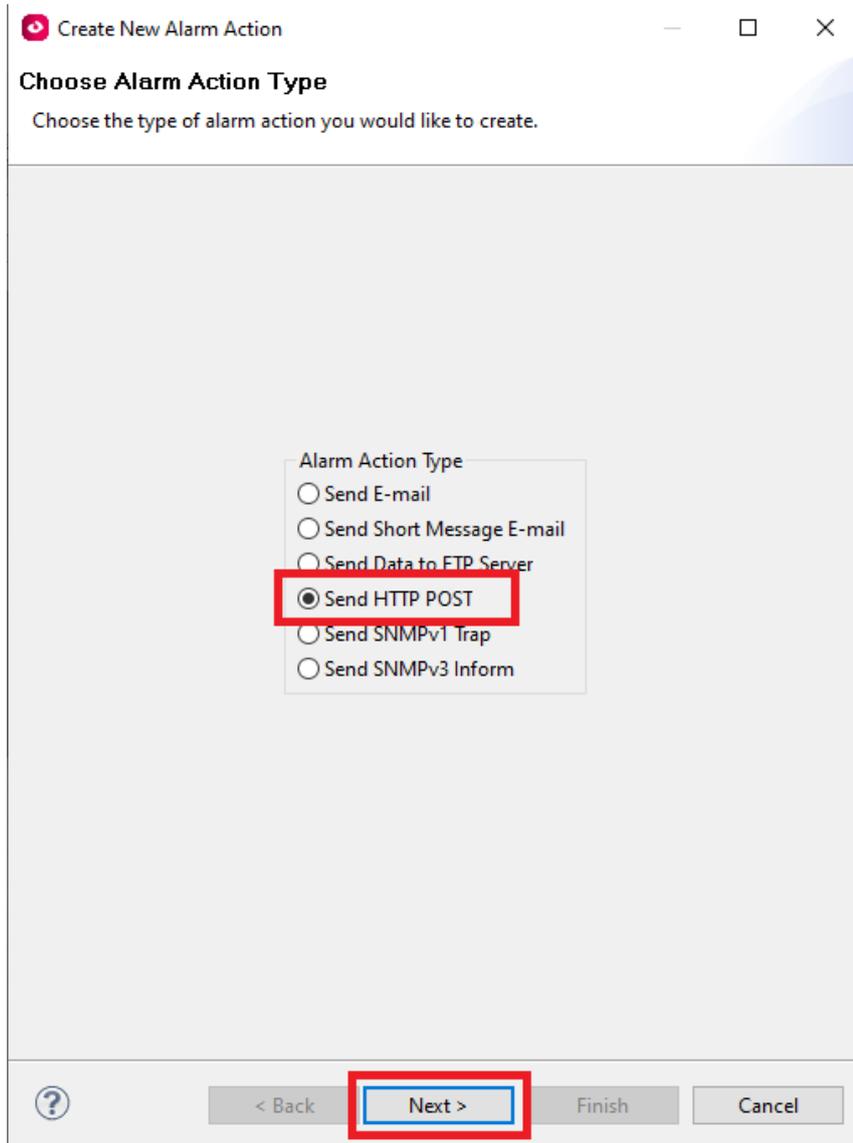


Figure 19: Create New Alarm Action Page

Enter any name under **HTTP POST Action Name**.

Fill the **Target URL** field with the sendQuick HTTP URL string as follows:

**http://<sendQuickIP>/cmd/system/api/sendsms.cgi?tar\_num=%SMSNUMBER&tar\_msg=%SMSTEXT**

Replace **<sendQuickIP>** with the IP address of sendQuick system.

Replace **%SMSNUMBER** with the number of your target user.

Replace **%SMSTEXT** with your own message.

Fill up **Target User ID**, and **Password** to confirm the changes made. Click **Finish**.

Create New Alarm Action

**Configure Send HTTP POST alarm action.**  
Configure the settings for Send HTTP POST alarm action.

HTTP POST Action Name

Primary Backup Advanced Options

Target URL

Target User ID

Target Password\*

Verify Password

\*Password fields must be filled in each time the action is modified, or they will be reset to blank.

Severities  
 Information  Warning  Error  Critical  Failure

Alarm Action Scheduling...

? < Back Next > **Finish** Cancel

Figure 20: Configure HTTP Post Alarm Action

Select the **Email Action** and click **Test...**

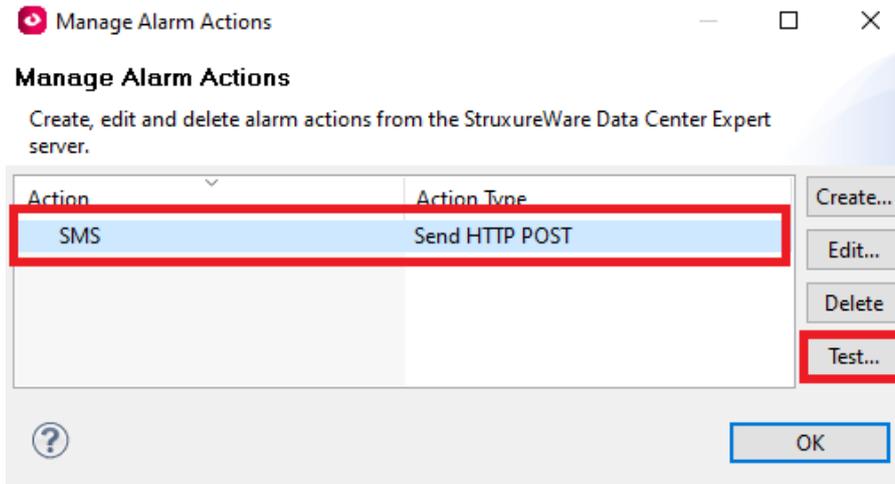


Figure 21: Test HTTP Alarm Action

If successful, a popup will appear as shown below:

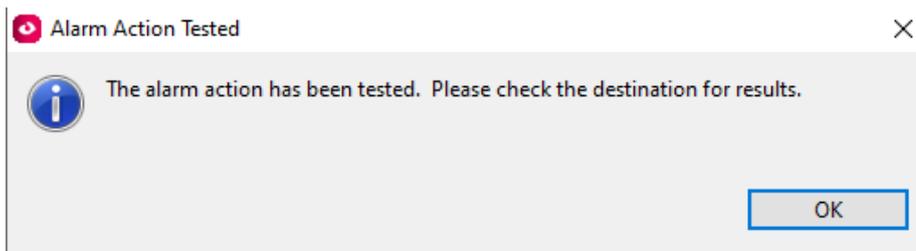


Figure 22: Test Successful on Data Center Expert

To confirm that sendQuick has subsequently sent out the SMS text, on the sendQuick dashboard, navigate to:

**Usage Logs > Message Logs**

Click on the **SMS** tab. If there is a corresponding entry in the logs, that means the SMS text was sent successfully.

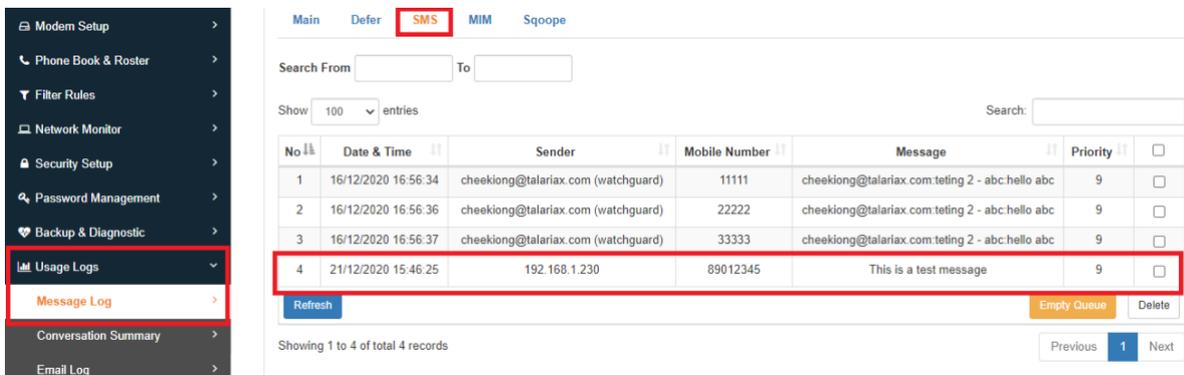


Figure 23: Testing Successful on sendQuick

## 4.0 Send SNMP Trap to sendQuick

Data Center Expert can also send alerts to sendQuick via SNMP trap. In sendQuick, we create a rule under SNMP Trap filter. On Data Center Expert, create a corresponding Alarm Action to match this filter. Once matched, sendQuick can receive the notification via SNMP trap and subsequently sent it out as SMS.

### 4.1 Configure SNMP Trap Filter in sendQuick

Configure the SNMP trap filter on sendQuick. At the sendQuick dashboard, navigate to

#### Filter Rules > SNMP Trap Filter

Click on **Add New Record**.

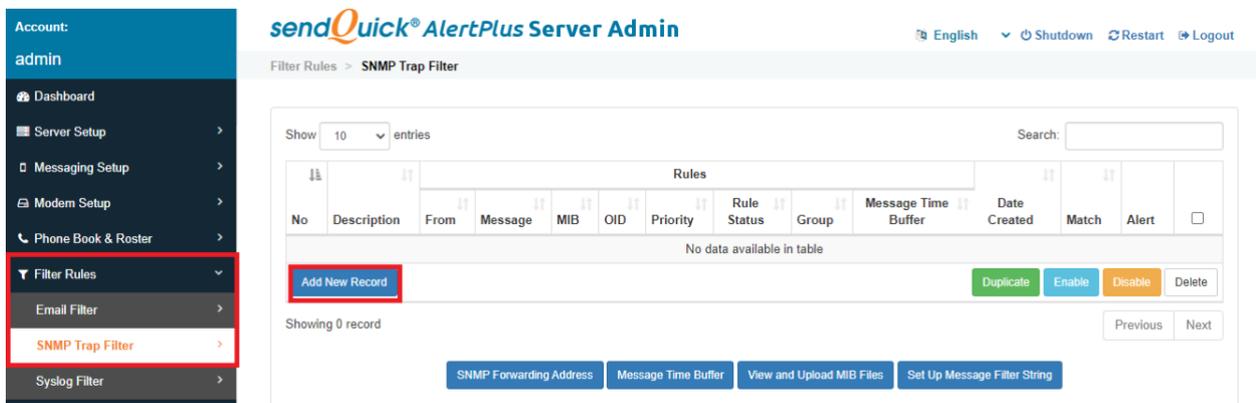


Figure 24: SNMP Trap Filter Page

Give the filter an appropriate name under **Description**.

Key in the IP address of the machine Data Center Expert was installed on under the **From** field.

Click **Save** to continue.

Add SNMP Filter Rule ×

**Description**

**Variables Usage**

**From**

**Message**

**Select MIB**

Include TrapObjectName in Message Text?  Yes  No

Include Varbind Value in Message Text?  Yes  No

**Match**  ALL  ANY

**Priority**

**Rule Status**

**Group** -

Select

New

**Message Time Buffer**  Yes

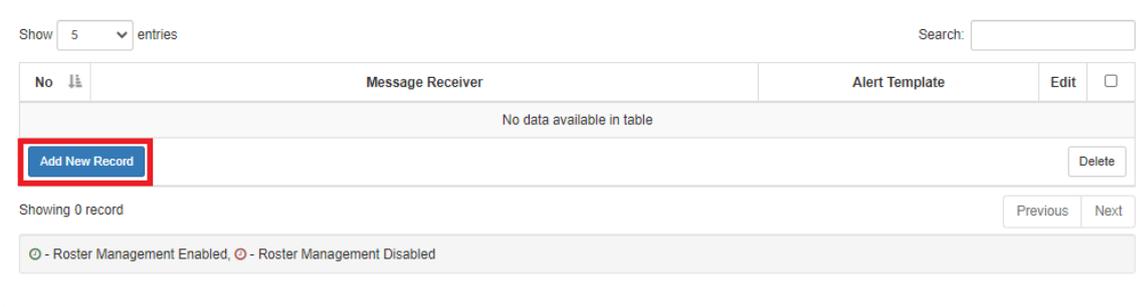
Figure 25: Add SNMP Filter Rule

Click on **View** for the record that you have created

1	SNMP Trap for Schneider Electric	192.168.1.230			5	Enable		Yes	22/12/2020	ALL	<a href="#">View</a>	<input type="checkbox"/>
---	----------------------------------	---------------	--	--	---	--------	--	-----	------------	-----	----------------------	--------------------------

Figure 26: View SNMP Trap Filter Record

Click on **Add New Record**



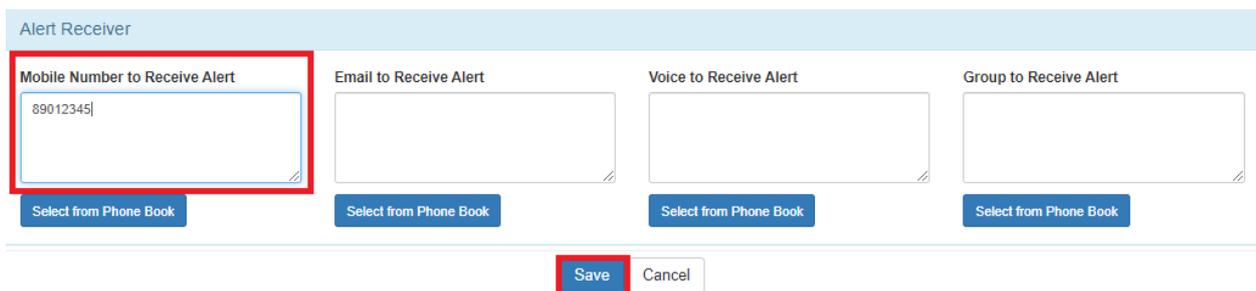
The screenshot shows a table interface. At the top left, there is a 'Show' dropdown menu set to '5' and the text 'entries'. To the right is a search box labeled 'Search:'. The table has columns for 'No.', 'Message Receiver', 'Alert Template', and 'Edit'. The table is currently empty, displaying 'No data available in table'. A blue button labeled 'Add New Record' is highlighted with a red box. Below the table, there is a 'Showing 0 record' indicator and 'Previous' and 'Next' navigation buttons. At the bottom, there are two radio buttons: 'Roster Management Enabled' (selected) and 'Roster Management Disabled'.

Figure 27: Add New Record

Add in the phone number to receive the alerts under **Mobile Number to Receive Alert**.

This is the page to also add other phone numbers, emails or groups to receive the same notification alerts.

Once completed, click on **Save**.



The screenshot shows the 'Alert Receiver' form. It has four input fields: 'Mobile Number to Receive Alert', 'Email to Receive Alert', 'Voice to Receive Alert', and 'Group to Receive Alert'. The 'Mobile Number to Receive Alert' field contains the text '89012345' and is highlighted with a red box. Below each input field is a blue button labeled 'Select from Phone Book'. At the bottom of the form, there are 'Save' and 'Cancel' buttons, with the 'Save' button highlighted in red.

Figure 28: Add Mobile Number

## 4.2 Configure Alarm Action in Data Center Expert

Next, configure the Alarm Action that can be used. In the Data Center Expert dashboard, navigate to:

### Alarm Configuration > Manage Alarm Actions

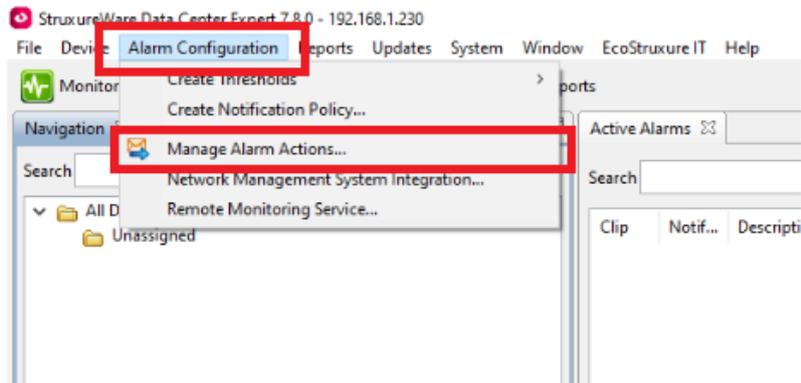


Figure 29: Data Center Expert Dashboard

Click on **Create**

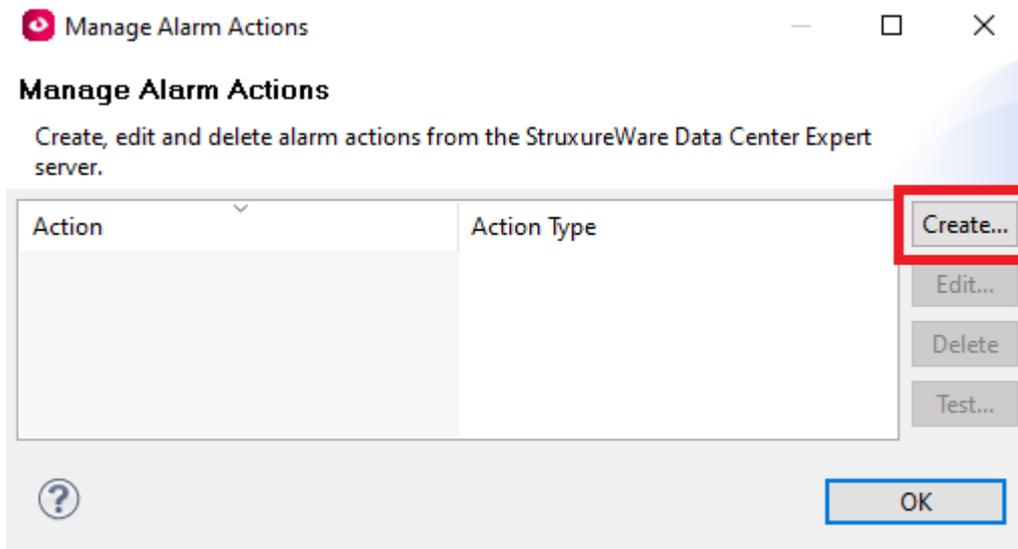


Figure 30: Manage Alarm Actions Page

Select **Send SNMPv1 Trap** under **Alarm Action Type** and click **Next**

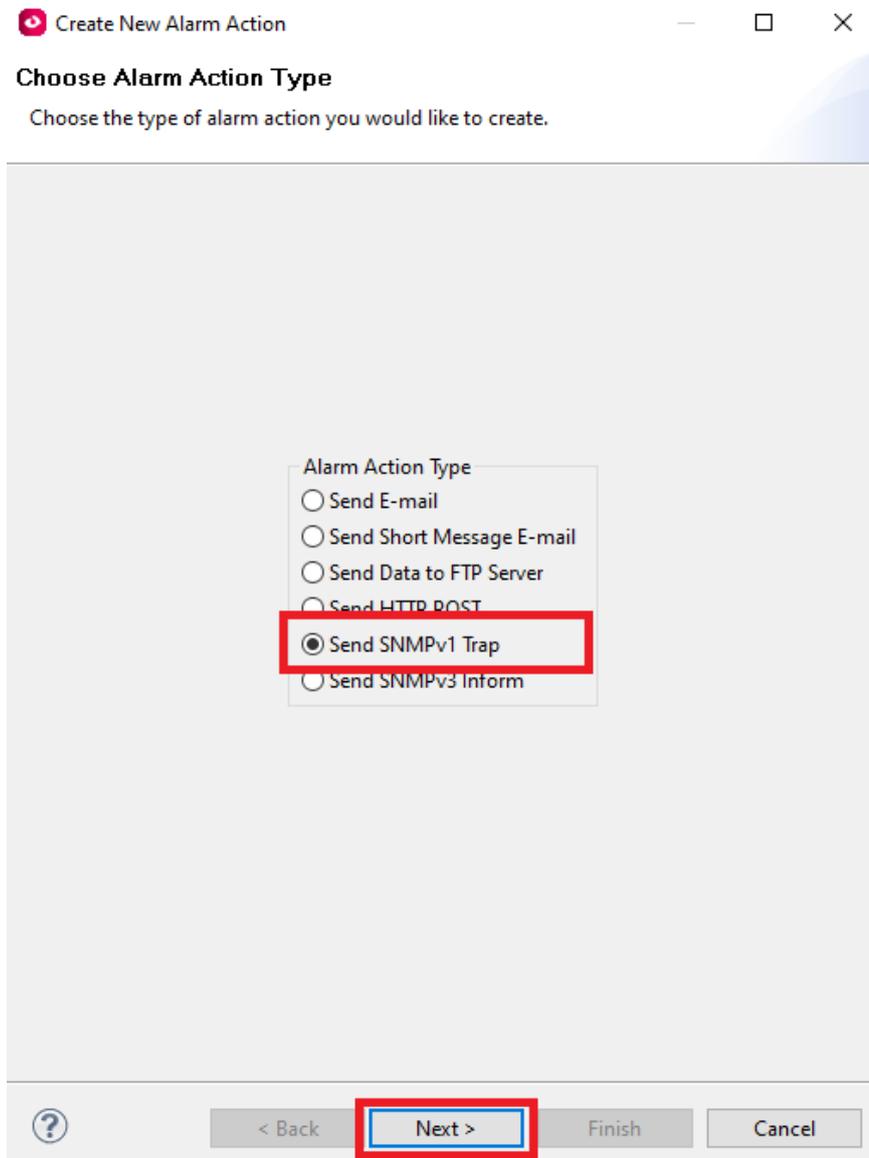


Figure 31: Create New Alarm Action Page

Enter any name of your choice under **SNMPv1 Action Name**

Enter the IP address of sendQuick system under **Target Host Address**.

You can leave the **Trap Port Number** as 162 and public for **Community String**.

Click **Finish**

The screenshot shows a window titled "Create New Alarm Action" with the subtitle "Configure Send SNMPv1 Trap alarm action." Below the subtitle is the instruction "Configure the settings for Send SNMPv1 Trap alarm action." The main configuration area is enclosed in a red box and contains the following fields:

- SNMPv1 Action Name:** A text input field containing "SNMP Trap".
- Trap Settings:** A section containing:
  - Target Host Address:** A text input field containing "192.168.1.96".
  - Community String:** A text input field containing "public".
  - Trap Port Number:** A numeric input field containing "162".
- Locale:** A dropdown menu set to "Use Server Locale".
- Severities:** A row of checkboxes for "Information", "Warning", "Error", "Critical", and "Failure", all of which are checked.
- Alarm Action Scheduling...** A button located at the bottom right of the configuration area.

At the bottom of the dialog, there are four buttons: a help icon (?), "< Back", "Next >", and "Finish". The "Finish" button is highlighted with a red box.

Figure 32: Configure SNMP Alarm Action

Select **SNMP Trap Action** and click **Test**

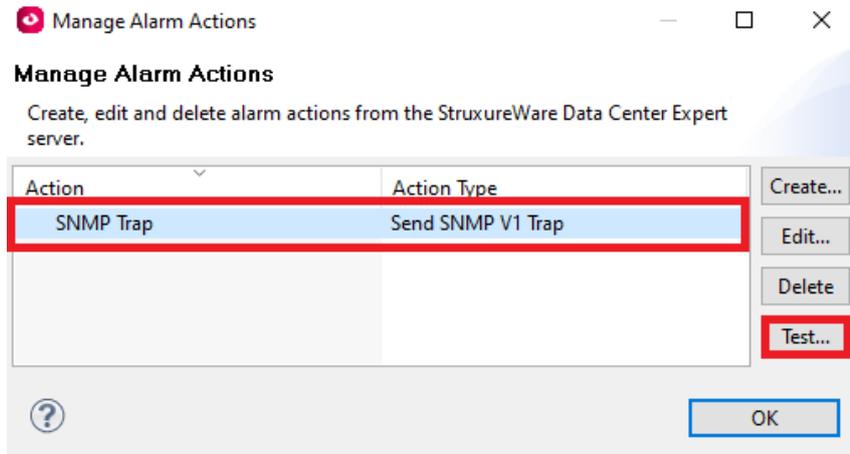


Figure 33: Test SNMP Alarm Action

If successful, a popup will appear as shown below:

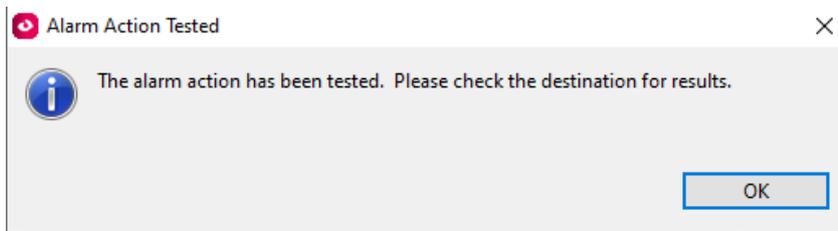


Figure 34: Test Successful on Data Center Expert

To confirm that sendQuick has subsequently received the SNMP Trap and sent out as SMS, go to sendQuick dashboard. Navigate to:

**Usage Logs > Message Logs**

Click on the **SMS** tab. If there is a corresponding entry in the logs, that means the SMS text was sent successfully.

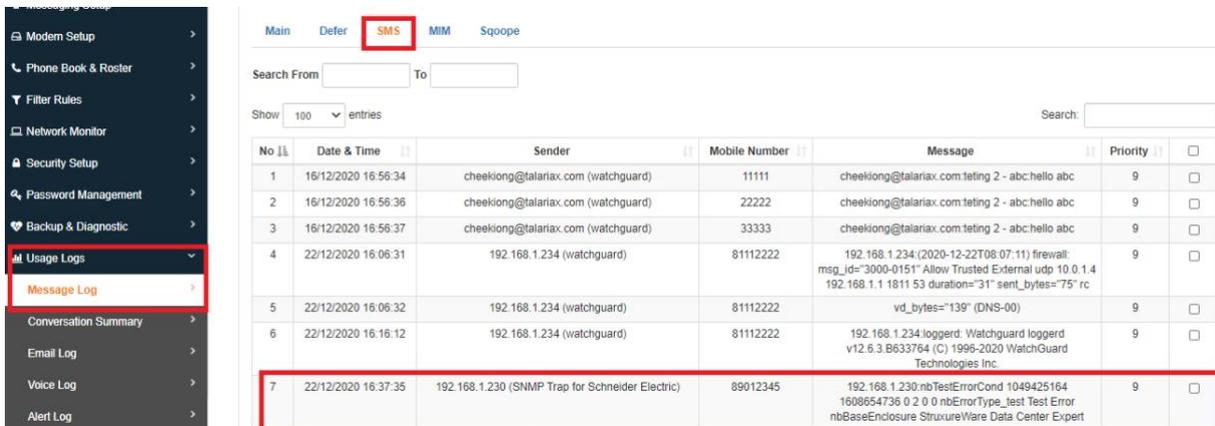


Figure 35: Test Successful on sendQuick