

How to Create Alarms for Smartlink I/O Channels under PME 9.0 Web Application

Table of Content

Introduction.....	2
Create Alarm under PME 9.0 Web Application	2
Expose Custom Measurement with Manual Data Editor	2
Create Event under the VIP with Designer	3
Create Alarm for Smartlink I/O Channel under Web Application	3
Testing Smartlink IO Alarm on PME Web Application.....	7
I1, I2 Input Alarming	7
Q Output Alarming	8
Create Report Subscription on Trigger	9
Event Watcher for Smartlink IO	9
Create a Report Subscription on Trigger	10

Introduction

Currently, events and alarms on Smartlink I/O Channels are not supported by the PME driver. It means that no Event or Alarm is raised on the PME Web Application in case of I/O Status change on a Smartlink Channel.

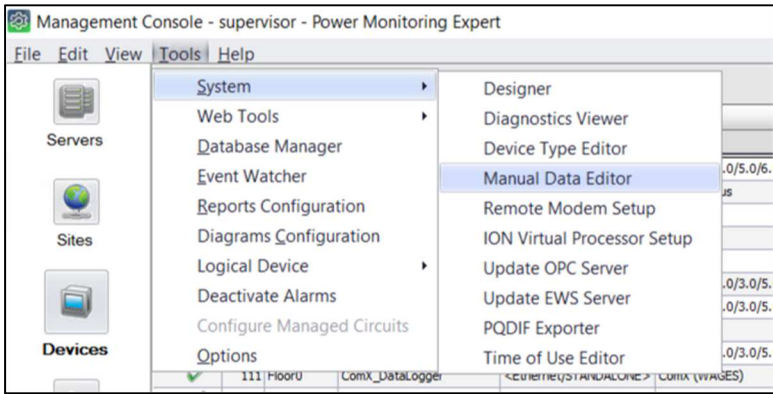
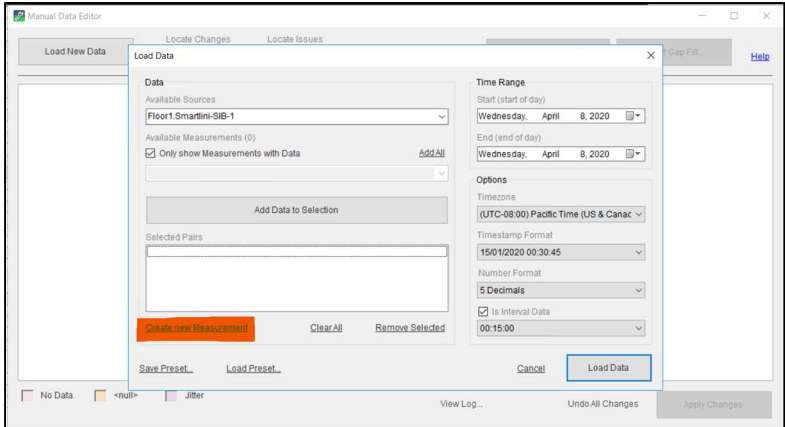
This document will explain how to:

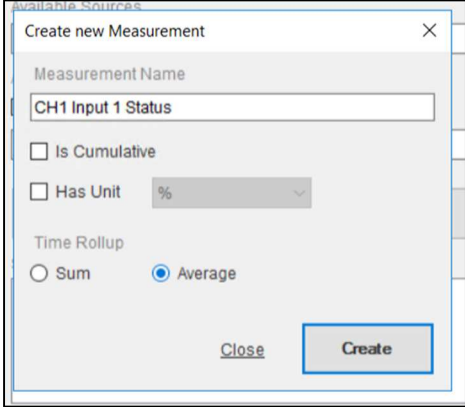
- create Alarms under PME Web Application for Smartlink I/O Channels
- trigger an event for Report Subscription

Create Alarm under PME 9.0 Web Application

Expose Custom Measurement with Manual Data Editor

This section explains how to expose the I/O Status of a Smartlink to make them available under the Web Application.

Step	Description
1	Open Manual Data Editor (MDE) from Management Console 
2	On the MDE -> click on “Create New Measurement” 

3	To create a Measurement for I1 Input for CH1 Channel: • enter the exact name “CH1 Input 1 Status” in the Measurement Name Status • uncheck “Is Cumulative” • check “Average” 
4	To create a Measurement for I2 Input for CH1 Channel, enter “CH1 Input 2 Status”
5	To create a Measurement for Q Output for CH1 Channel, enter “CH1 Output Status”
6	Repeat steps 3 to 5 to create the Measurements for: • the 10 other I/O Channels of your Smartlink A9XMSB11 • the 6 other I/O Channels of your Smartlink A9XMZA08
7	Close all the MDE related windows.

Create Event under the VIP with Designer

This section is under construction.

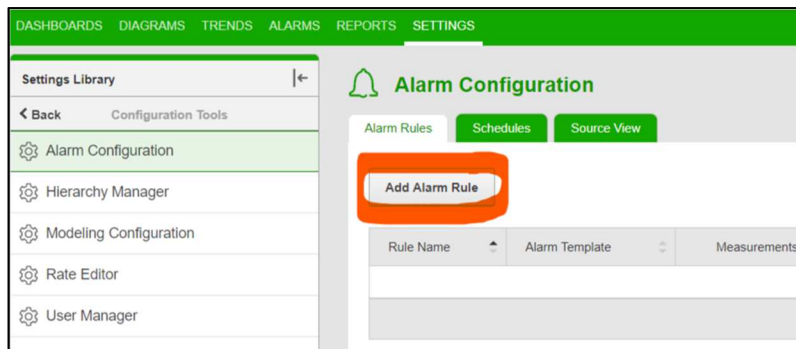
Create Alarm for Smartlink I/O Channel under Web Application

This section explains how to create a Software Alarm to warn the customer in case of any change on a Smartlink I/O Channel.

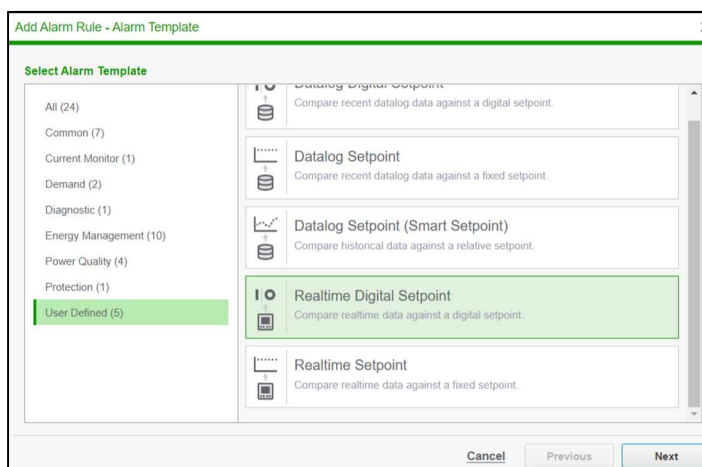
After implementing Software Alarming => the associated events will be available under the PME Event Log.

Step	Description
1	Go under the Windows Services and restart “ION Application Modules Core Services Host” service. This will force the new created measurements available under the Web Application.
2	Log in to the PME Web Application.

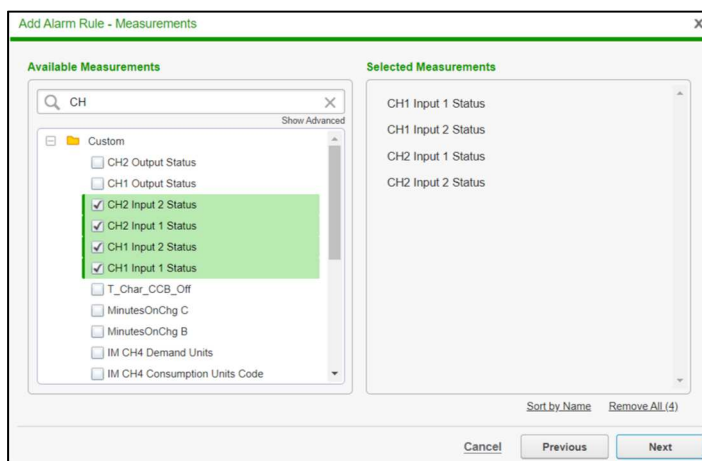
- 3 Go under SETTINGS menu -> Configuration Tools -> Alarm Configuration and click on “Alarm Rule” button.



- 4 Select the following template: User Defined -> Realtime Digital Setpoint



- 5 Under “Available Measurements” go under the “Custom” folder and select the measurements related to the Smartlink I/O Channel. You can apply the “CH” filter if you have too many Measurements in the “Custom” folder. If you want to create alarm only for I1 and I2, then do not select the Output. You will be able to create a separate alarm later for the Output.



6

Gives a specific Alarm Name.

Choose an Active and Inactive Condition Label that fit with your application. See the example below.

Select also an Alarm Priority: 192 is the threshold for High Priority Alarm. You can choose a lower value.

Trigger will be “FALSE (equal to 0)” if the I1 or I2 of the I/O Channel is 0DC (**Breaker Open**).

The screenshot shows the 'Edit Alarm Rule' dialog box with the 'Details' tab selected. The 'Alarm Name' field contains 'Smartlink IO Input Change'. Under 'Input Evaluation', the 'Realtime Interval' is set to '5 seconds'. Under 'Active Condition', the 'Active Condition Label' is 'Input ON', 'When Value is' is 'False (equals 0)', and 'Pickup Delay [s]' is '0'. Under 'Inactive Condition', the 'Inactive Condition Label' is 'Input OFF', 'When Value is' is 'True (not equals 0)', and 'Dropout Delay [s]' is '0'. In the 'Advanced' section, the 'Alarm Priority [0-255]' is set to '192' with a 'High' label and a corresponding color bar. 'Cancel' and 'Save' buttons are at the bottom right.

7

Select the sources to which the alarms will apply. You must have some Smartlink devices declared in the Management Console.

The screenshot shows the 'Add Alarm Rule - Sources' dialog box. It has two main sections: 'Available Sources' on the left and 'Selected Sources' on the right. The 'Available Sources' section has a search bar and a tree view showing a hierarchy of floors (Floor0 to Floor4) and VIP. Under Floor1, 'Smartlink-SIB-2' and 'Smartlink-SIB-1' are checked. The 'Selected Sources' section lists 'Floor1.Smartlink-SIB-2' and 'Floor1.Smartlink-SIB-1'. At the bottom, there are 'Cancel', 'Previous', and 'Next' buttons, along with 'Add All (48)', 'Sort by Name', and 'Remove All (2)' options.

8

Create a Schedule if necessary.

The screenshot shows the 'Add Alarm Rule - Schedule' dialog box. It features a 'Select Alarm Schedule' dropdown menu currently set to 'None'. To the right of the dropdown are 'Edit Schedule' and 'Add Schedule' buttons.

9

Enter a Rule Name and click on “Finish” button.

Add Alarm Rule - Summary

Rule Name Enabled

Smartlink IO Input Change

Active Alarm Display: Smartlink IO Input Change - Input ON
Inactive Alarm Display: Smartlink IO Input Change - Input OFF

Alarm Status Measurement Mappings

☐ Enable Realtime Alarm Status Measurements

Input Measurement	Output Alarm Status Measurement
CH1 Input 1 Status	
CH1 Input 2 Status	
CH2 Input 1 Status	
CH2 Input 2 Status	

Cancel Previous Finish

10

Check that the rule is enabled.

Alarm Configuration

Alarm Rules Schedule Source View

Rule Name	Alarm Template	Measurements	Sources	Active When	Alarm Name	Schedule Name	Enabled
Smartlink Input Change	Realtime Digital Setpoint	4	2	= True	Smartlink IO Input Change	None	☒
Smartlink Output Change	Realtime Digital Setpoint	2	2	= True	Smartlink IO Output Change	None	☒

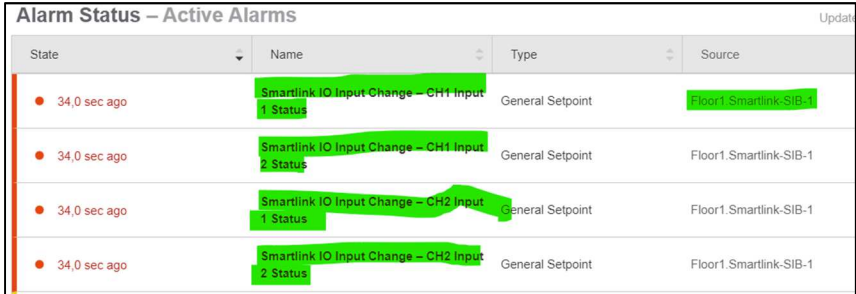
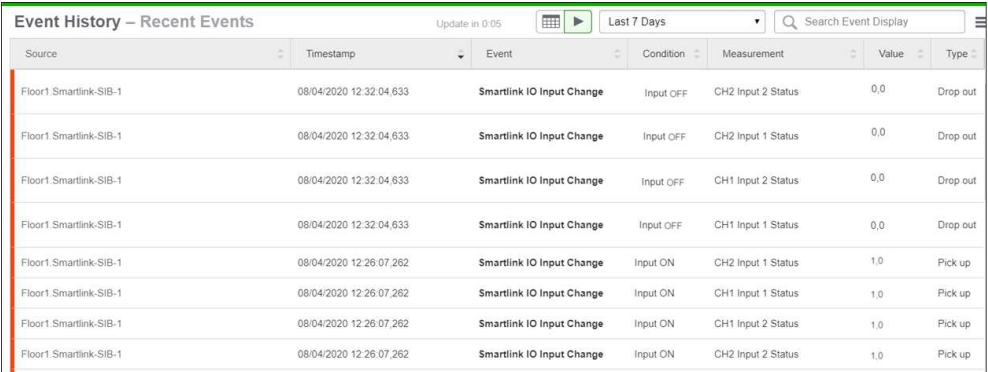
1 - 2 of 2 Rules Lines/page 25

Testing Smartlink IO Alarm on PME Web Application

This section explains how to verify that the events for the Smartlink I/O channels are available under PME Web Application.

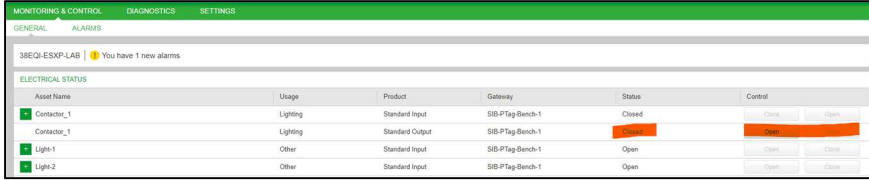
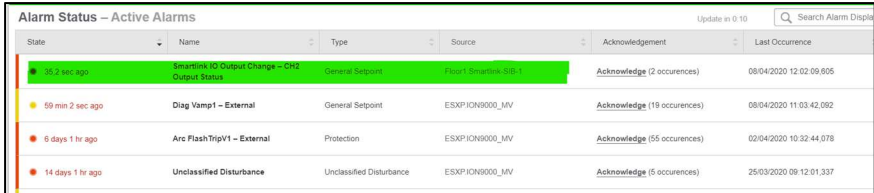
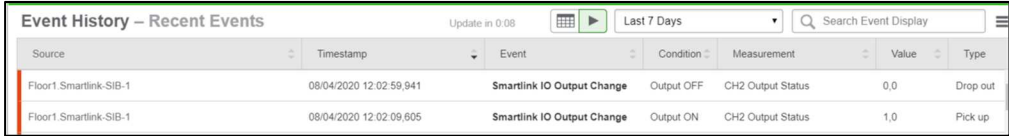
I1, I2 Input Alarming

This section explains how to verify that an alarm is raised on PME if the Input status of a Smartlink IO Channel has changed.

Step	Description
1	Change the status of an input of your Smartlink. 
2	Check that an alarm is raised on the PME Web Interface. On the example below I have some alarms on I1, I2 for Channels 1 & 2 for a Smartlink SIB. 
3	Restore the previous status on your Smartlink Input.
4	Check on PME that the alarms are no more active.
5	On the Event History you will be able to check the Pick up and Drop out events associated to the previous alarm. 

Q Output Alarming

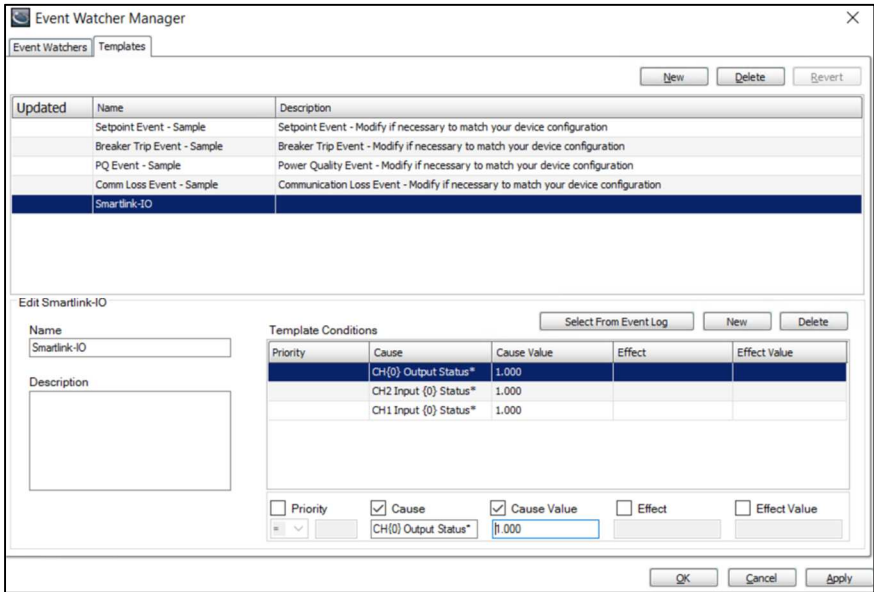
This section explains how to verify that an alarm is raised on PME if the Output status of a Smartlink IO Channel has changed.

Step	Description
1	Change the status of an output of your Smartlink. 
2	Check that an alarm is raised on the PME Web Interface. On the example below I have an alarm on an output for Channels 2 for a Smartlink SIB. 
3	Restore the previous status on your Smartlink Output.
4	Check on PME that the alarms are no more active.
5	On the Event History you will be able to check the Pick up and Drop out events associated to the previous alarm. 

Create Report Subscription on Trigger

Event Watcher for Smartlink IO

This section describes how to create some Templates and Event Watcher to monitor a change on a Smartlink Channel.

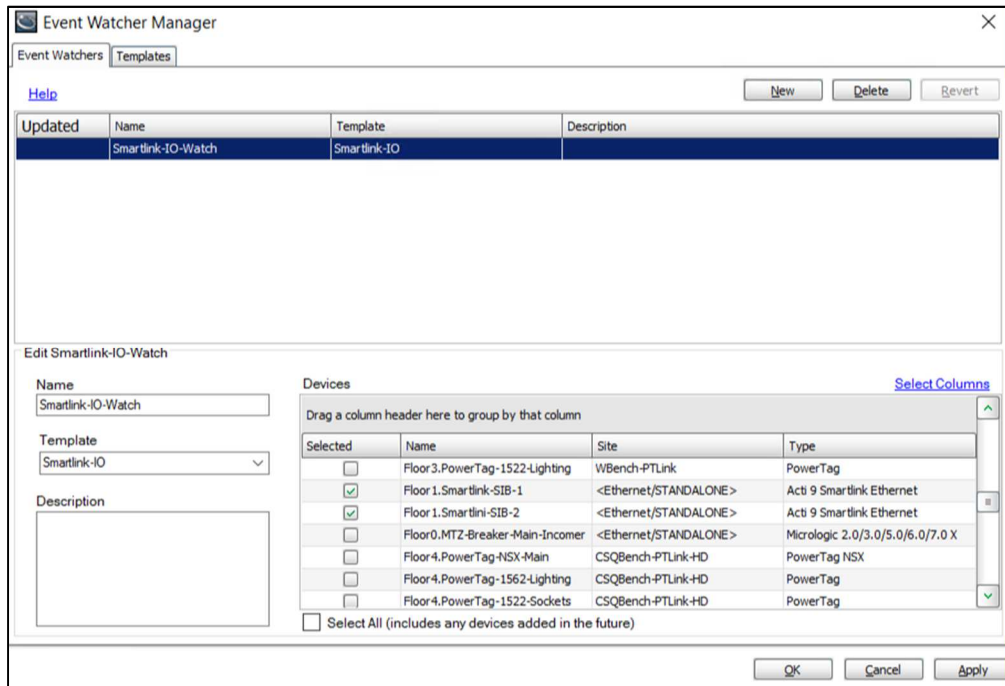
Step	Description
1	Open the Events Watcher from Management Console: Tools -> Event Watcher
2	Select the "Templates" tab.
3	Give a name to the Template. By example "Smartlink-IO"
4	Under section "Edit Smartlink-IO" : 1. click on "New" Button 2. check the "Cause" field and enter: <i>"CH{0} Output Status*"</i> 3. check the "Cause Value" field and enter: <i>"1.000"</i> 4. click on "New" Button 5. check the "Cause" field and enter: <i>"CHx Input {0} Status*"</i> (replace 'x' by the Smartlink Channel) 6. check the "Cause Value" field and enter: <i>"1.000"</i> 7. Repeat steps 5 and 6 for any channel you want to monitor 8. Click on "Apply" button The Templates tab of the Event Watcher Manager should look like the example below. 
5	Select the "Event Watchers" tab and click on the "New" button.

6

Under the section “Edit New Event Watcher”:

1. Give a name to the watcher. Example : “Smartlink-IO-Watch”
2. Select the template created in the previous steps
3. Select the Devices (Smartlink devices available under Management Console)
4. Click on “Apply button

The Event Watchers tab of the Event Watcher Manager should look like the example below.



Create a Report Subscription on Trigger

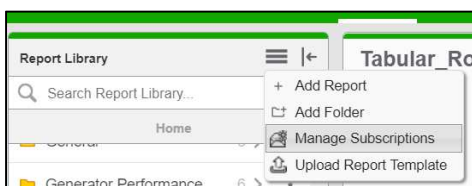
This section describes how to set up the Report Subscription related to a Smartlink IO trigger.

Important:

1. Check your SMTP parameters under Management Console -> Tool -> Report Configuration -> Subscriptions
2. You must have created your own Report from an available template (Report -> Add Report)

The following procedure describes how to create the subscription.

Step	Description
1	Log in to the PME Web Application and Select “Report” tab
2	Click on the Burger menu -> Manage Subscriptions



3	Click on “Add Subscriptions...” button -> select your Report -> click on Next
4	Under the Subscription parameters, select “On trigger” and chose the Event Watcher you defined before. 