Event Notification Module™

Monitoring and Diagnostics
User Guide
Version 8.0

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Notices

StruxureWare and Schneider Electric are either trademarks or registered trademarks of Schneider Electric in France, the USA, and other countries. All other trademarks are property of their respective owners.
Safety Information

Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

<table>
<thead>
<tr>
<th>☢ DANGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>☢ WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNING indicates a potentially hazardous situation which, if not avoided, can result in death or serious injury.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>☢ CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAUTION indicates a potentially hazardous situation which, if not avoided, can result in minor or moderate injury.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>☢ NOTICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOTICE, is used to address practices not related to physical injury. The safety alert symbol shall not be used with this signal word.</td>
</tr>
</tbody>
</table>

Please Note

Electrical equipment should be installed, operated, serviced and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.
Safety Precautions

⚠️ WARNING

HAZARD OF INCORRECT INFORMATION

- Do not incorrectly configure the software, as this can lead to incorrect reports and/or data results.
- Do not base your maintenance or service actions solely on messages and information displayed by the software.
- Do not rely solely on software messages and reports to determine if the system is functioning correctly or meeting all applicable standards and requirements.
- Consider the implications of unanticipated transmission delays or failures of communications links.

Failure to follow these instructions can result in death, serious injury, or equipment damage.
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Chapter 1 — Overview

WARNING

HAZARD OF UNDELIVERED NOTIFICATIONS
Do not rely solely on Event Notification Module software for alarm notifications where human or equipment safety relies on successfully delivered notifications.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Note
Other parts of the overall communication system, such as email servers and cellular phone systems, could fail and result in notifications not being delivered. If notifications are not delivered to recipients, conditions that cause alarming may persist and result in safety critical issues.

WARNING

HAZARD OF UNINTENDED OPERATION
Do not use Event Notification Module software for critical control or protection applications where human or equipment safety relies on the operation of the control circuit.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

About Monitoring and Diagnostics

This user guide covers the Monitoring and Diagnostics pages of the Event Notification Module (ENM). Users in all three user groups (ENMAdmin, ENMControl, and ENMUser) have full access to the tabs in Monitoring and Diagnostics.

For related information on the Event Notification Module and Alarm Sentry, refer to:

- Event Notification Module Configuration Guide, 63220-083-04
- Alarm Sentry Configuration Guide, 63220-083-05
Chapter 2 — Event Notification Module Monitoring

The Monitoring page of Event Notification Module Monitoring and Diagnostics displays live and historical alarms and events received from the OPC alarm and event servers. You can set options to display or hide certain event attributes.

Start Event Notification Module Monitoring and Diagnostics

If the Event Notification Module Monitoring and Diagnostics page is not open, then open it as follows.

In Windows, go to Start > All Programs > Schneider Electric > StruxureWare Solutions > Monitoring & Diagnostics. You can also use the Desktop shortcut icon.

The Event Notification Module Monitoring and Diagnostics page appears.

View Monitoring Data

In ENM, you can view current monitoring information on the Monitoring page as it happens. To view custom attributes, click on a record’s +/- sign and custom attribute data expands or collapses.

You can click a column heading to sort the grid data.

NOTE: ENM refreshes this page every ten seconds when Auto Refresh is on (the Auto Refresh button is green when on). "Export Results To Excel" and pagination controls are not available while Auto Refresh is on. Auto Refreshing against all historical records impacts performance. If you are using Auto Refresh, it is recommended that you apply a filter condition to only look at recent data (for example, a Timestamp greater than four hours ago).
Use Filtering

With filtering, you can select a condition, such as Equals, Greater Than or Equals, or Contains and enter a custom filter value. For this example, we are going to filter alarms with a severity greater than or equal to 700.

1. Click the **Filter Editor** bar above the grid to display the filter.

   ![Filter Editor](image)

2. From the **Column** drop down, choose **Severity**; from the **Operator** drop down, choose **Greater Than or Equals**; in **Value**, enter **700**. Click **Validate & Apply Filter**.

   ![Filter Editor](image)

   The filtered data appears in the grid.

   If needed, you can define a filter in more than one column. To do so, click **Add Condition**, set filtering criteria, and click **Validate & Apply Filter**. The grid displays the event records where both conditions are true.

   ![Filter Editor](image)

You can remove conditions individually or click **Remove All Conditions** to remove all of them.
Filtering On/Off

The Filtering On/Off button allows you to temporarily disable your validated filter conditions. (Filtering is on when the button is green).

Filtering On/Off

Export to a CSV Formatted File

You can export the data in the grid to a CSV formatted file.

NOTE: "Export Results To Excel" is not available while Auto Refresh is on.

1. Set the conditions to filter the data you want to export.
2. Click Export Results to Excel.
   The file is generated on the server and downloaded by your browser.

Configure Monitoring Options

You can select the columns you want to display on the Monitoring page.

1. Click Settings.
2. Click the boxes to specify which columns should be visible and which should be hidden. Faded boxes represent a hidden column. You may also drag the boxes up and down to change the order of the columns with the topmost box representing the left-most column.

3. Click **Apply Changes**. If you want to revert to your previous settings, click **Discard Changes**.
Chapter 3 — Event Notification Module Diagnostics

The Diagnostics page of Event Notification Module Monitoring and Diagnostics provides real time and historical viewing of activity relating to the ENM. It does not provide information on events transmitted from OPC alarm and event servers. You can set options to display or hide certain diagnostics data. If the Event Notification Module Monitoring and Diagnostics page is not open, refer to “Start Event Notification Module Monitoring and Diagnostics” on page 9 to open it.

View Diagnostics Data

In ENM, you can view current diagnostic information on the Diagnostics page as it happens.

You can click a column heading to sort the grid data.

NOTE: ENM refreshes this page every ten seconds when Auto Refresh is on (the Auto Refresh button is green when on). "Export Results To Excel" and pagination controls are not available while Auto Refresh is on. Auto Refreshing against all historical records impacts performance. If you are using Auto Refresh, it is recommended that you apply a filter condition to only look at recent data (for example, a Timestamp greater than four hours ago).
Use Filtering

With filtering, you can select a condition, such as Equals, Greater Than or Equals, or Contains and enter a custom filter value. For this example, we are going to filter alarms with a priority equal to 100.

1. Click the Filter Editor bar above the grid to display the filter.

   ![Filter Editor](image)

   1. Click the Filter Editor bar above the grid to display the filter.
   2. From the Column drop down, choose Priority; from the Operator drop down, choose Equals; in Value, enter 100. Click Validate & Apply Filter.

   ![Filter Editor with conditions](image)

   The filtered data appears in the grid.

   If needed, you can define a filter in more than one column. To do so, click Add Condition, set filtering criteria, and click Validate & Apply Filter. The grid displays the event records where both conditions are true.

   ![Filter Editor with additional condition](image)

   You can remove conditions individually or click Remove All Conditions to remove all of them.
Filtering On/Off

The **Filtering On/Off** button allows you to temporarily disable your validated filter conditions. (Filtering is on when the button is green).

![Filtering On/Off button](image)

Export to a CSV Formatted File

You can export the data in the grid to a CSV formatted file.  

*NOTE: “Export Results To Excel” is not available while Auto Refresh is on.*

1. Set the conditions to filter the data you want to export.
2. Click **Export Results to Excel**.
   
The file is generated on the server and downloaded by your browser.

Configure Diagnostics Options

You can select the columns you want to display on the Diagnostics page.

1. Click **Settings**.

![Settings button](image)
2. Click the boxes to specify which columns should be visible and which should be hidden. Faded boxes represent a hidden column. You may also drag the boxes up and down to change the order of the columns with the topmost box representing the left-most column.

3. Click **Apply Changes**. If you want to revert to your previous settings, click **Discard Changes**.