

opengear

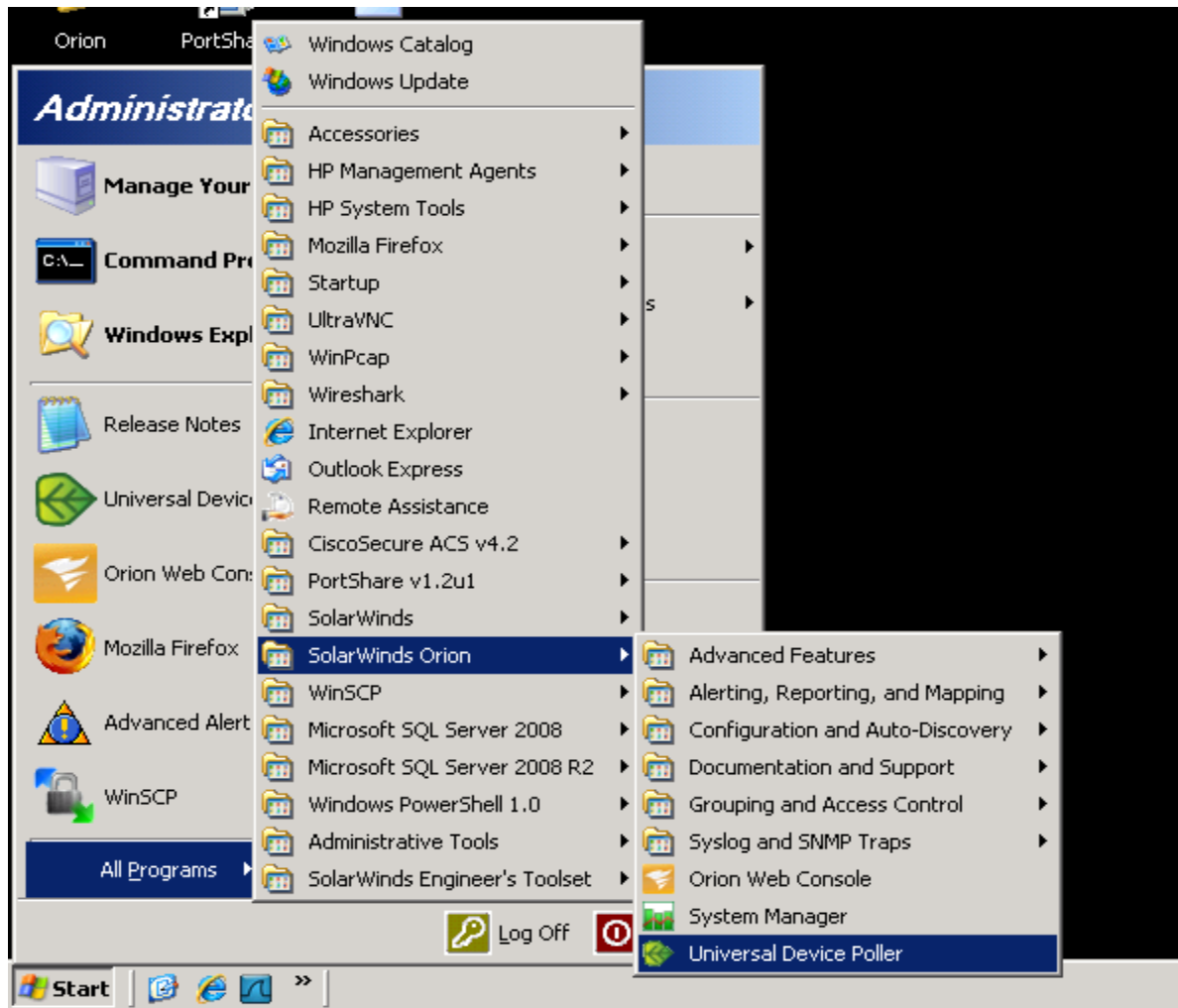
Opengear Inc. USA Head
Office 630 West 9560 South
Suite A Sandy, UT 84070



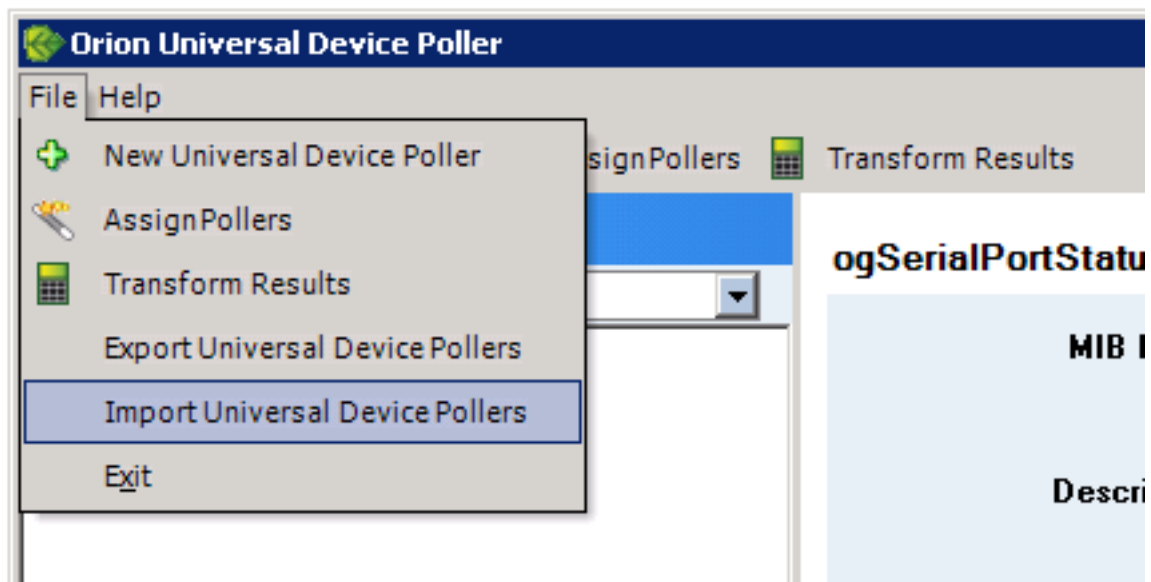
A set of Universal Device Pollers is available to poll data from Opengear console servers. These pollers can be imported into Solarwinds Orion NPM and associated with a device in your environment to monitor temperature, serial ports, environmental, UPS and PDU's, digital i/o's and other data. Use the following procedure outlined in this guide to import a Universal Device Poller.

Importing Opengear Universal Device Pollers into Solarwinds Orion NPM

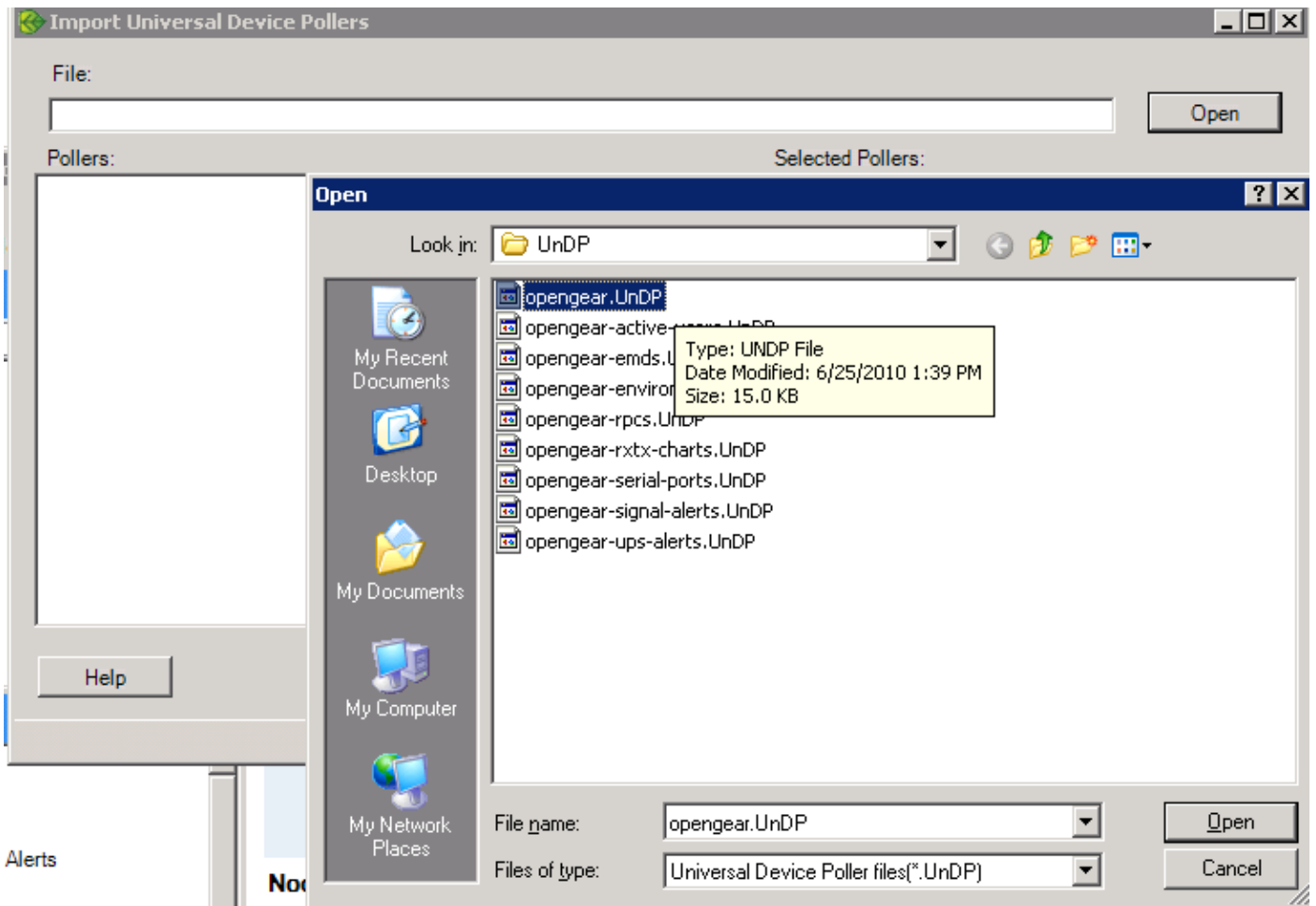
Opengear provides **Universal Device Pollers** for use with **Solarwinds Orion NPM** which can be used for monitoring serial port status, current user sessions, connected UPS and Remote Power Controller performance and environmental state. To import the Opengear Pollers, download the **opengear.UnDP** file from **Thwack.com** or **opengear.com** and use the following procedure:



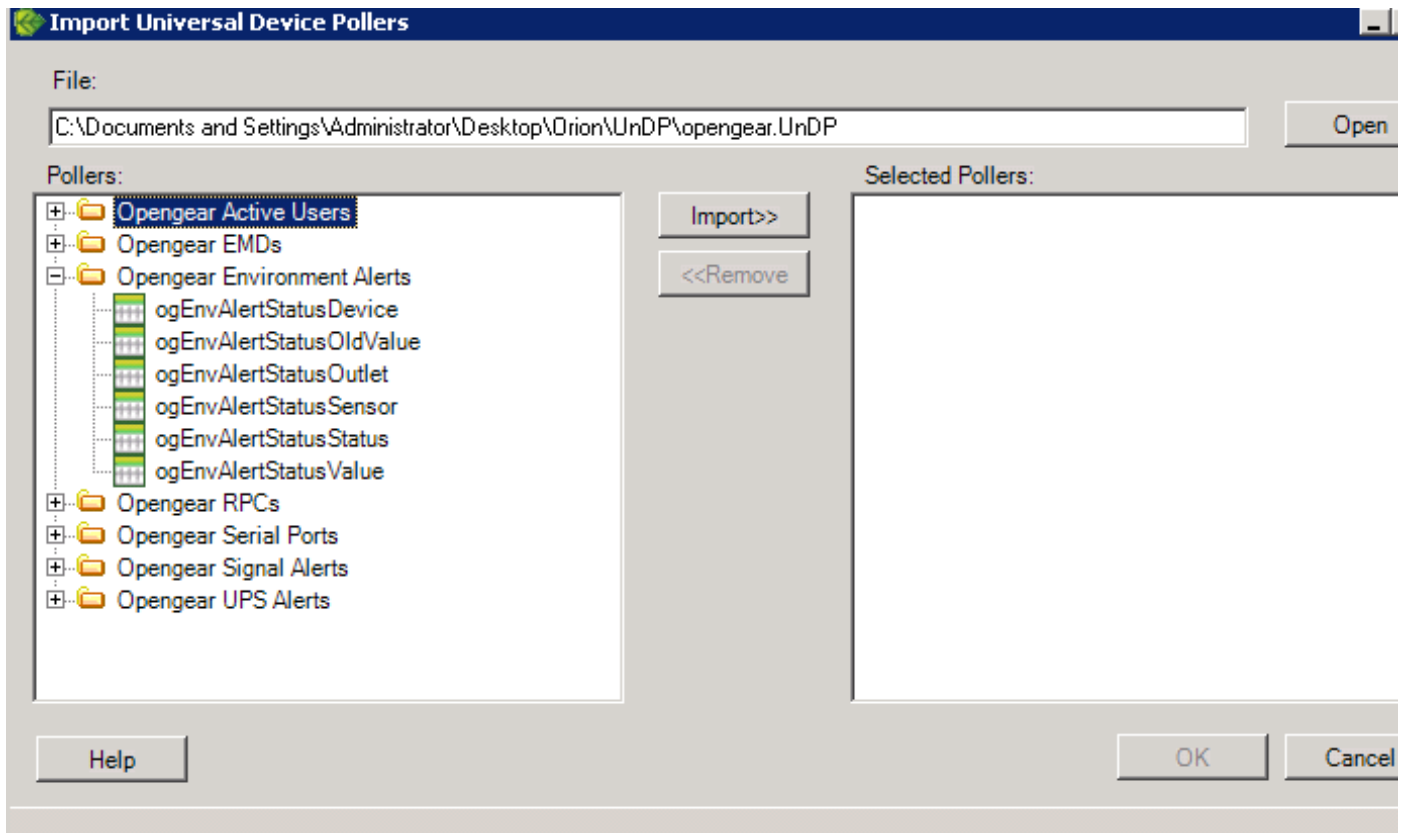
1. Launch the **Universal Device Poller** from the Windows **Start** menu under **Solarwinds Orion**.
2. From the **File** menu select **Import Universal Device Pollers**.



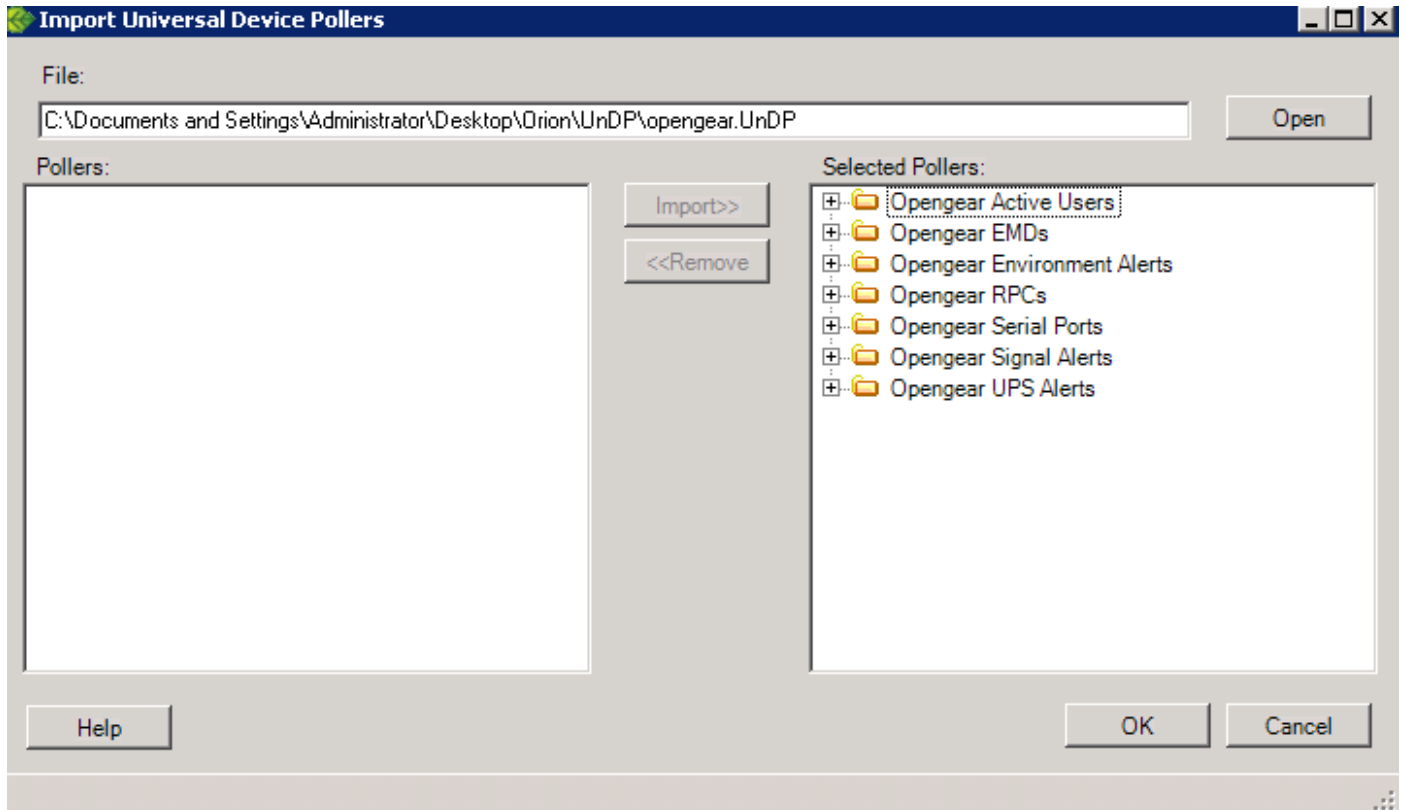
3. Select the **opengear.UnDP** file by clicking the **Open** button and navigating to the location on your file-system where it was saved.



- Once open a number of poller groups will become available in the list to the left.



Select the desired Pollers and click **Import**.

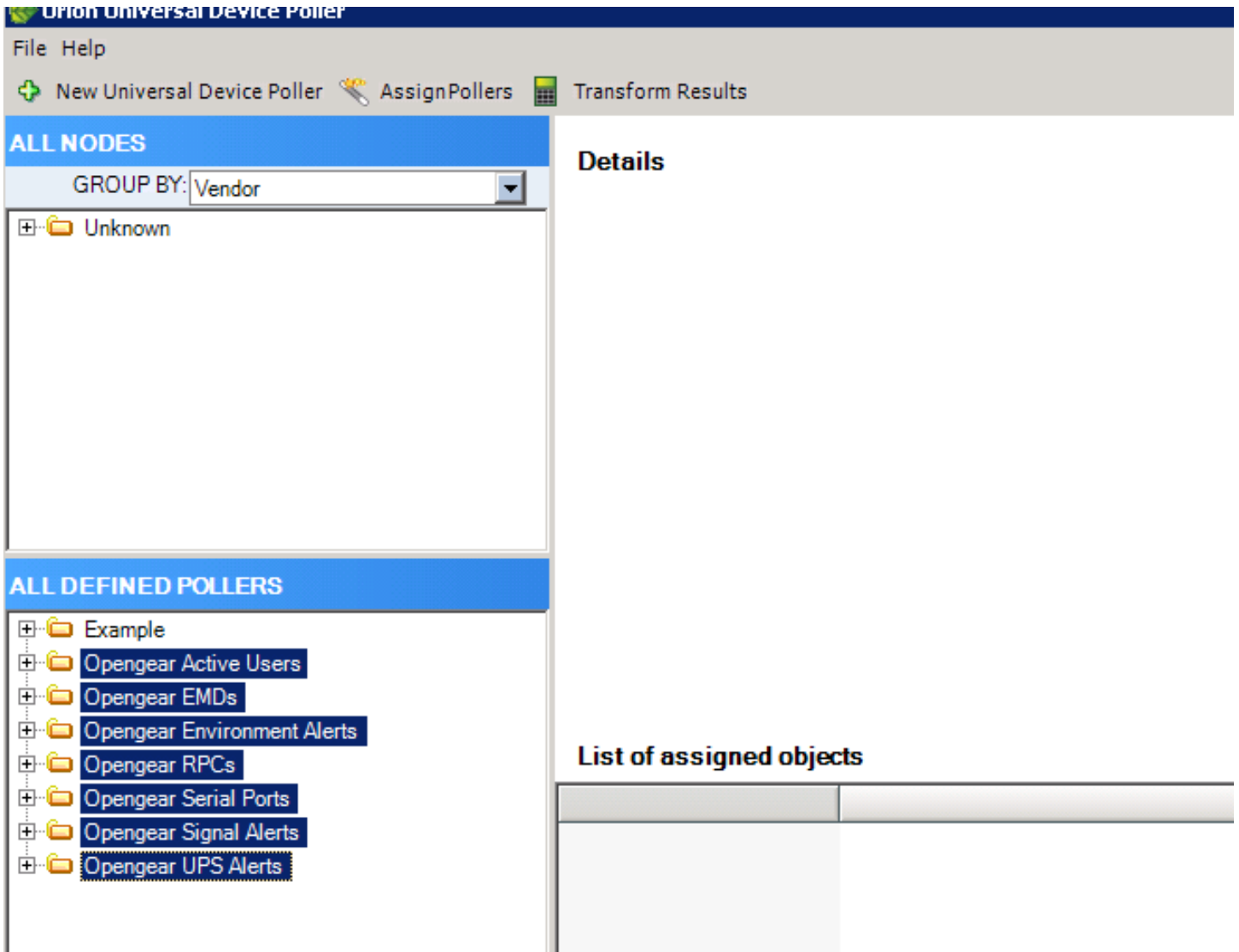


The Pollers are arranged into groups which correspond to the available SNMP Tables and Pollers which correspond to the SNMP Table Columns as follows:

- Opengear Active Users
 - ogSerialPortActiveUserName
 - ogSerialPortActiveUsersPort
- Opengear EMDs
 - ogEmdStatusAlertCount
 - ogEmdStatusHumidity
 - ogEmdStatusName
 - ogEmdStatusTemp
- Opengear Environment Alerts
 - ogEnvAlertStatusDevice
 - ogEnvAlertStatusOldValue
 - ogEnvAlertStatusOutlet
 - ogEnvAlertStatusSensor
 - ogEnvAlertsStatusStatus

- ogEnvAlertStatusValue
- Opengear RPCs
 - ogRpcStatusAlertCount
 - ogRpcStatusMaxTemp
 - ogRpcStatusName
- Opengear Serial Ports
 - ogSerialPortStatusCTS
 - ogSerialPortStatusDCD
 - ogSerialPortStatusDSR
 - ogSerialPortStatusRxBytes
 - ogSerialPortStatusSpeed
 - ogSerialPortStatusTxBytes
- Opengear Signal Alerts
 - ogSignalAlertStatusLabel
 - ogSignalAlertStatusPort
 - ogSignalAlertStatusSignalName
 - ogSignalAlertStatusState
- Opengear UPS Alerts
 - ogNutAlertStatusHost
 - ogNutAlertStatusName
 - ogNutAlertStatusPort
 - ogNutAlertStatusStatus

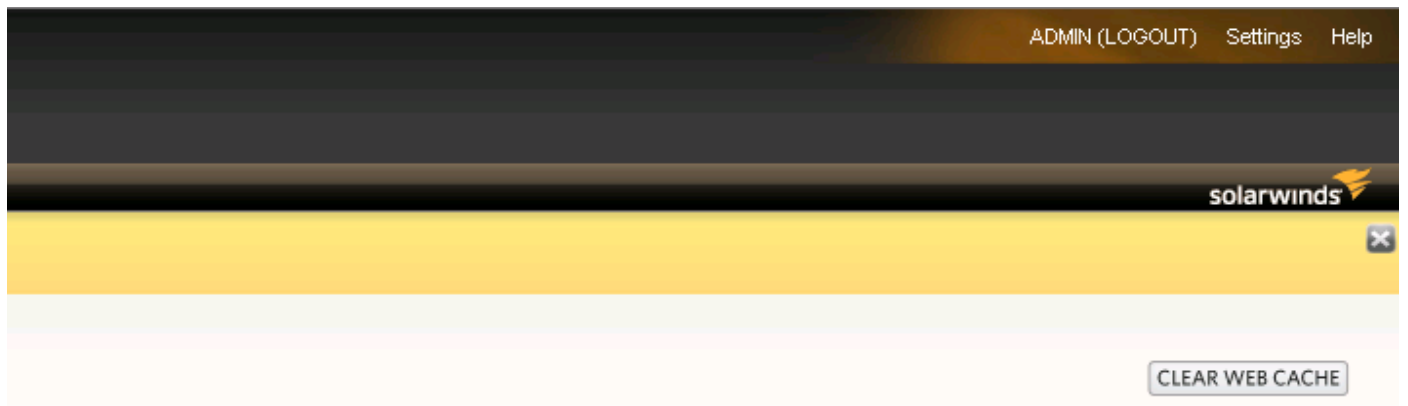
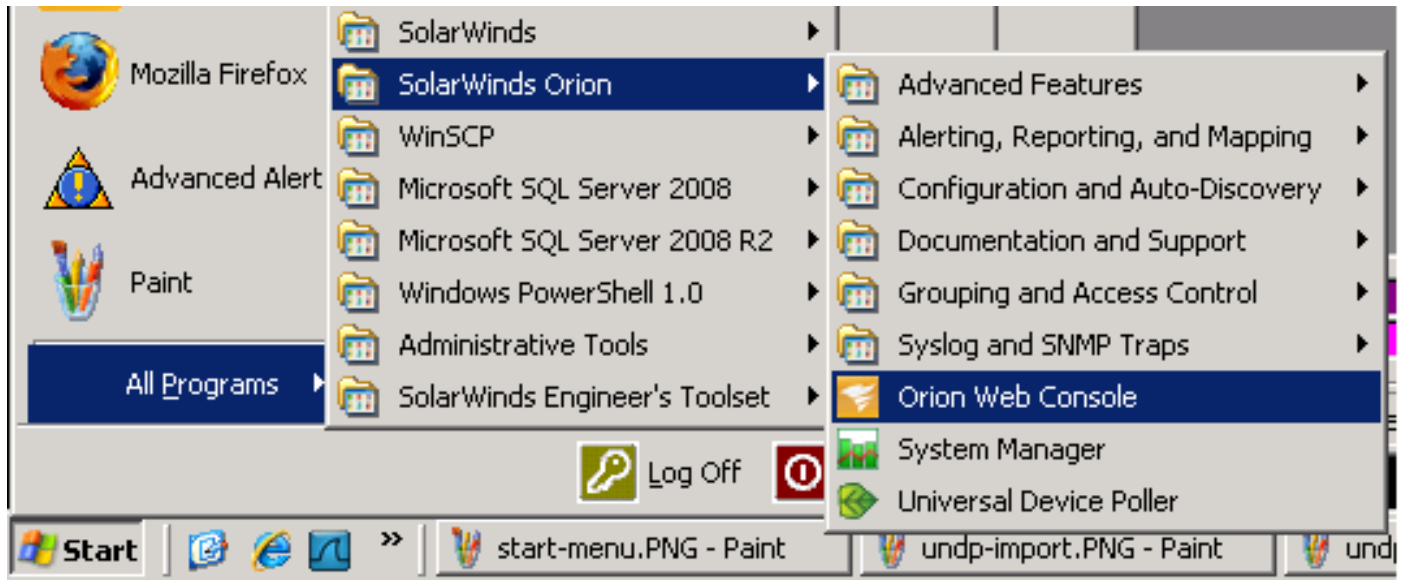
The imported Pollers will now be available in the **All Defined Pollers** list:




Creating an Opengear Device View

An Opengear specific view is useful for customizing which tables and graphs will be displayed when you navigate to an Opengear device with the Orion NPM Web Console. To create an Opengear Details view:

1. Launch the Orion NPM **Web Console** from the Windows **Start** menu.




feel of Orion's website to suit your company's needs.



Views

Each View can be customized. You can select which charts and device properties are displayed on each view.

» [Manage Views](#)
» [Views by Device Type](#)



Settings

Set global website settings such as site logo, thresholds, page refresh, timeout, and chart ratios.

» [Web Console Settings](#)
» [Polling Settings](#)
» [Orion Thresholds](#)

each user.

2. Navigate to **Settings > Views > Manage Views**.

3. Select the **Node Details** view from the list and click on **Copy**.



4. Select **Copy of Node Details** and click on **Edit**.



5. Rename the view **Opengear Node Details** and click on **Done**.

Admin ▶ Views ▶ Manage Views ▶

Customize Copy of Node Details

Name

Type of view: **NodeDetails**

Column 1 Width: **450**

Column 2 Width: **740**

Resources in Column 1

- Average Response Time & Pack
- CPU Load & Memory Utilization
- Node Details
- Event Summary
- Polling Details
- Availability Statistics
- Custom Properties for Nodes
- Virtual Machine Details
- EnergyWise Node Details



Resources in Column 2

- Average Response Time & Pack
- Min/Max Average CPU Load
- Current Cisco Buffer Misses
- Current Percent Utilization of Eac
- Disk Volumes
- Active Alerts on This Node
- Device Power Consumption



View Limitation

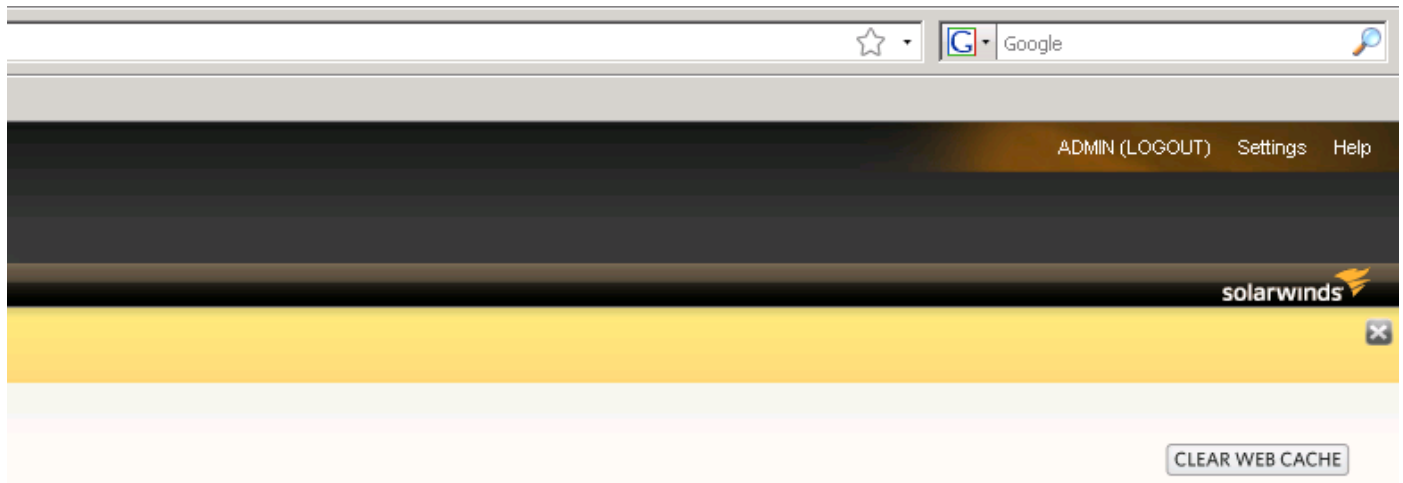
You can create a view limitation that will limit the network devices that can be displayed on this view. Account limit

No View Limitation Defined.

Assigning a View to a Device by Type


Having created a new **View** you can specify which types of Nodes you would like it associated with.

1. Navigate to **Settings > Manage Views** and click on **Views by Device Type**.



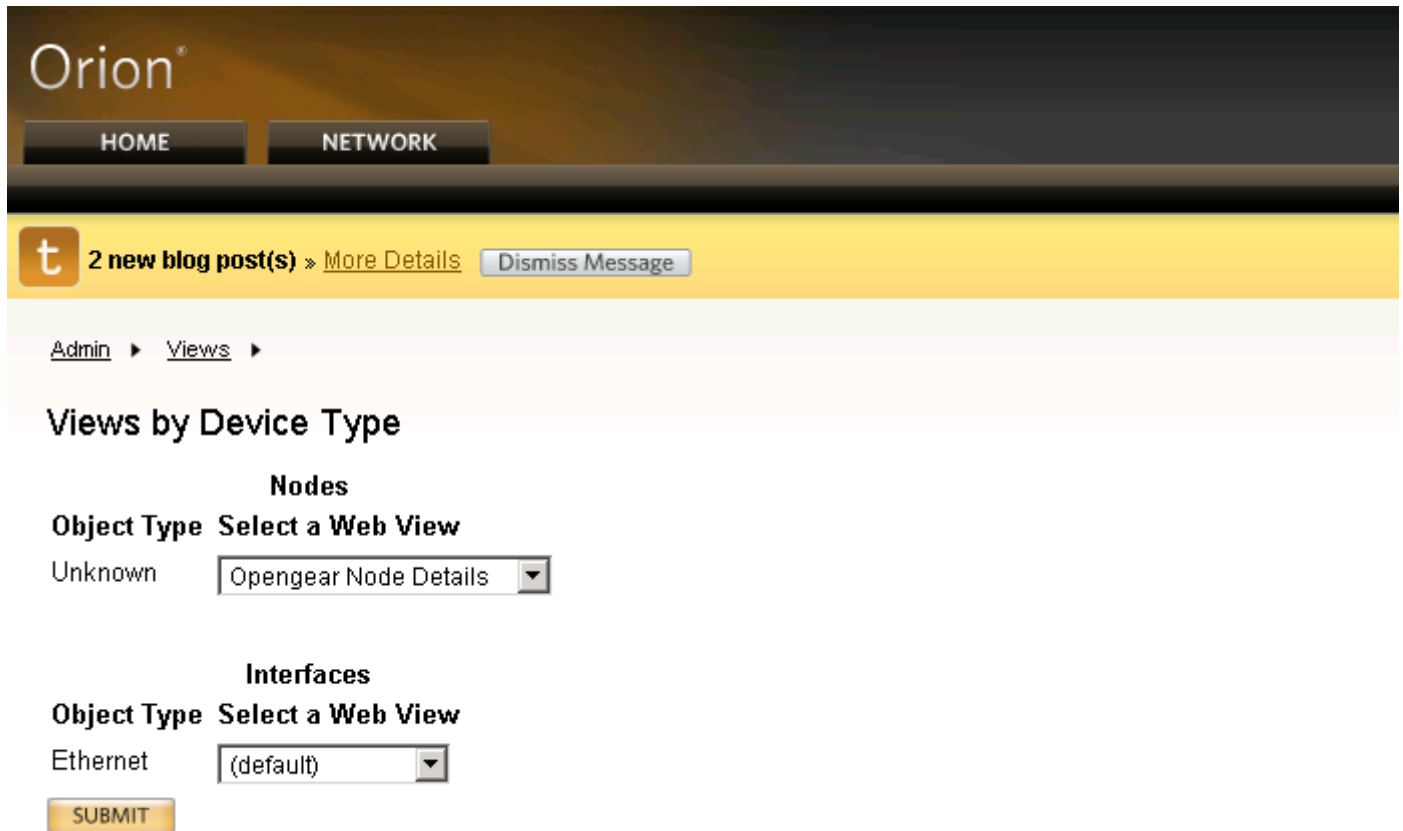
the look and feel of Orion's website to suit your company's needs.

ings

**Views**
Each View can be customized. You can select which charts and device properties are displayed on each view.

[» Manage Views](#) [» Views by Device Type](#)

2. Select **Opengear Node Details** from the menu next to the appropriate **Device Type**. Note: The Opengear devices are currently recognized as having an **Unknown** Vendor, this will be corrected in an upcoming release of Orion NPM.



Assigning a Chart Resource to a View

Universal Device Pollers can now be added to the new customized view:

1. Open the Orion **Universal Device Poller** and right-click on a Poller from the list of **All Defined Pollers** then select **Web Display**.

ALL DEFINED POLLERS

- Opengear Environment Alerts
- Opengear RPCs
- Opengear Serial Ports
 - ogSerialPortStatusCTS
 - ogSerialPortStatusDCD
 - ogSerialPortStatusDSR
 - ogSerialPortStatusPort
 - ogSerialPortStatusRxBytes
 - ogSerialPortStatusSpeed
 - ogSerialPortStatusTxByte
- Opengear Signal Alerts
- Opengear UPS Alerts

Label Type: SameTable

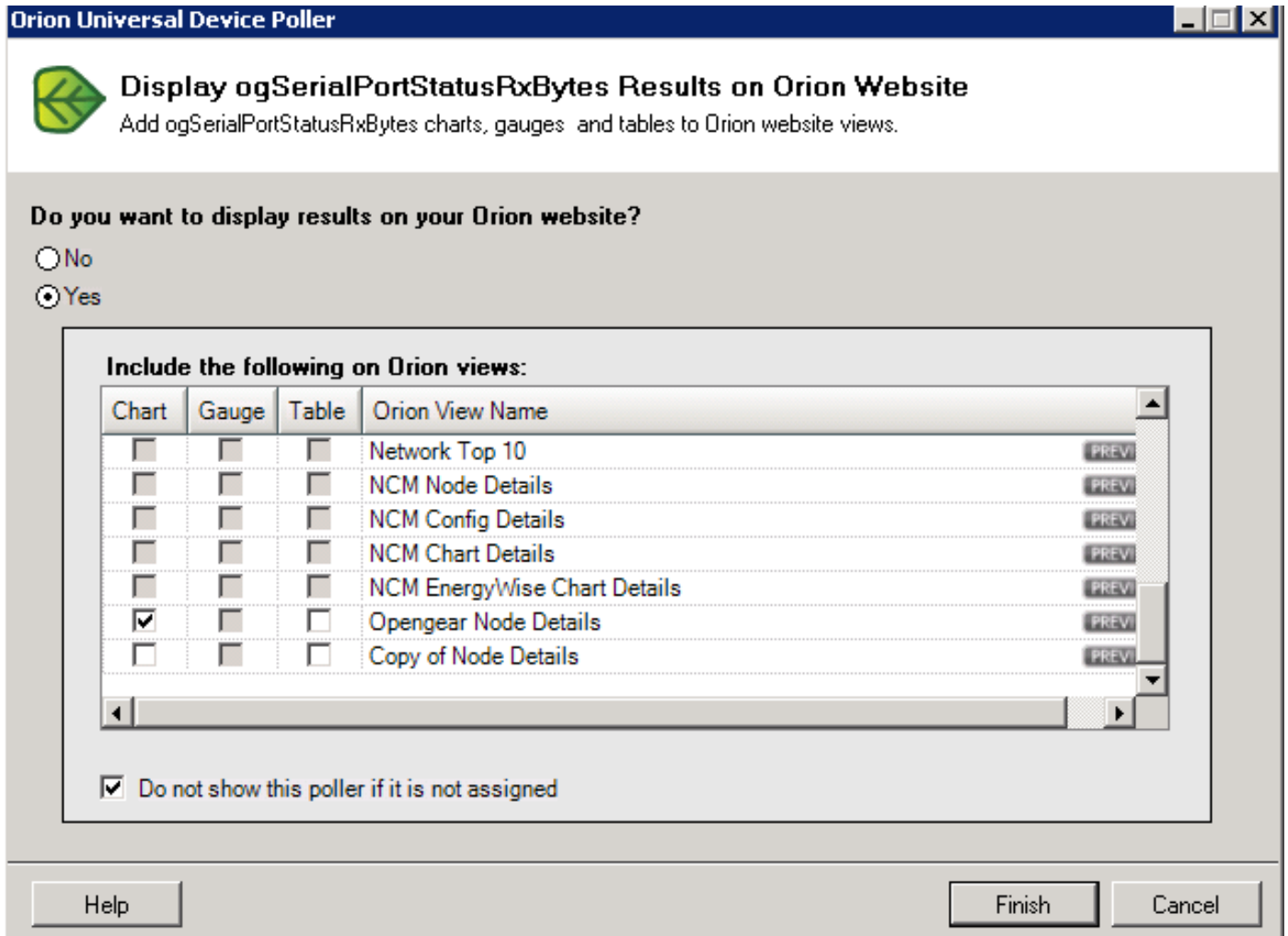
Label Detail: 1.3.6.1.4.1.25049.16.1.1.2

Last Change: 6/25/2010 1:44:25 PM

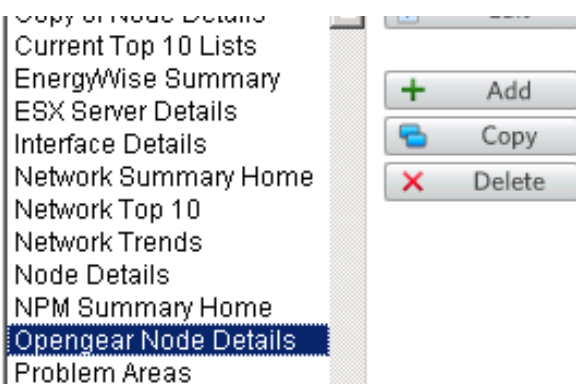
Nodes polled for ogSerialPortStatusRxBytes

Node Name	IP Address	Description
img4216-25	192.168.13.2	Linux img4216-25 2.4

- From the Web Display window, scroll down to **Opengear Node Details** and select **Chart** then click on **Finish**.



- Open the **Orion NPM** Web Console and navigate to **Settings > Manage Views** and select



Opengear Node Details from the list and click **Edit**.

- The Resource Column Lists display the current order and arrangement of resources like charts and

table in the **View**. Any Pollers which you allocated to the **Opengear Node View** as Charts should appear at the bottom of **Resources in Column 1**. Use the arrow buttons to move the resources into the desired order.

Name

Type of view: **NodeDetails**

Column 1 Width: **450**

Column 2 Width: **740**

Resources in Column 1

- Average Response Time & Pack
- CPU Load & Memory Utilization
- Node Details
- Event Summary
- Polling Details
- Availability Statistics
- Custom Properties for Nodes
- Virtual Machine Details
- EnergyWise Node Details
- ogSerialPortStatusRxBytes - Uni

Resources in Column 2

- Average Response Time & Pack
- Min/Max Average CPU Load
- Current Cisco Buffer Misses
- Current Percent Utilization of Eac
- Disk Volumes
- Active Alerts on This Node
- Device Power Consumption

View Limitation

You can create a view limitation that will limit the network devices that can be displayed on this view. Account limitations for the logged-in acco

No View Limitation Defined.

Assigning a Table Resource to a View

Similarly to the steps outlined in **Assigning a Chart Resource to a View** Universal Device Pollers can now also be used in Tables which can be displayed using the **Opengear Node Details** View:

1. Open the Orion **Universal Device Poller** and right-click on a Poller from the list of **All Defined Pollers** from a group you would like to display as a table then select **Web Display**.

ALL DEFINED POLLERS

- Opengear Environment Alerts
- Opengear RPCs
- Opengear Serial Ports
 - ogSerialPortStatusCTS
 - ogSerialPortStatusDCD
 - ogSerialPortStatusDSR
 - ogSerialPortStatusPort**
 - ogSerialPortStatusRTS
 - ogSerialPortStatusTX
 - ogSerialPortStatusRX
- Opengear Signal A
- Opengear UPS Ale

Context Menu:

- Edit
- Assign
- Label
- Web Display**
- Delete
- Duplicate Poller
- Enable Poller

Label Type: SameTable

Label Detail: 1.3.6.1.4.1.25049.16.1.1.2

Last Change: 6/25/2010 1:44:25 PM

Nodes polled for ogSerialPortStatusPort

Node Name	IP Address	Description
img4216-25	192.168.13.2	Linux img4216-25

- From the Web Display Window scroll down to **Opengear Node Details** you want to display in a

Display ogSerialPortStatusPort Results on Orion Website
Add ogSerialPortStatusPort charts, gauges and tables to Orion website views.

Do you want to display results on your Orion website?

No

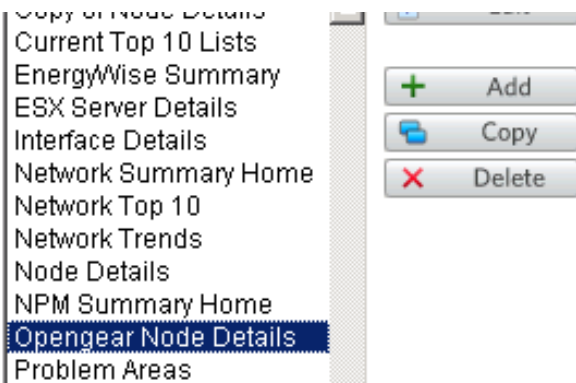
Yes

Include the following on Orion views:

Chart	Gauge	Table	Orion View Name
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Network Trends
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Network Top 10
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NCM Node Details
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NCM Config Details
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NCM Chart Details
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NCM EnergyWise Chart Details
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Opengear Node Details

Table and select **Table**.

- Open the **Orion NPM Web Console** and navigate to **Settings > Manage Views** and click **Edit**.



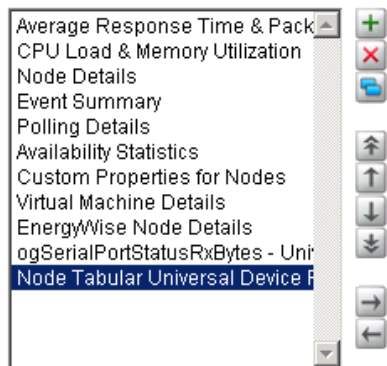
Name

Type of view: **NodeDetails**

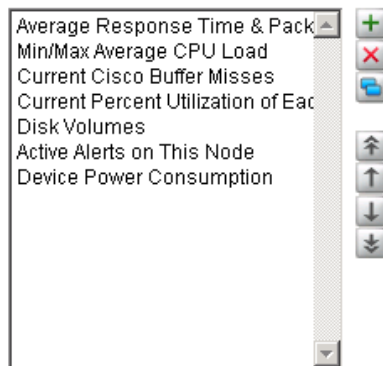
Column 1 Width: **450**

Column 2 Width: **740**

Resources in Column 1



Resources in Column 2



View Limitation

You can create a view limitation that will limit the network devices that can be displayed on this view. Account limitations for the logged-in ac

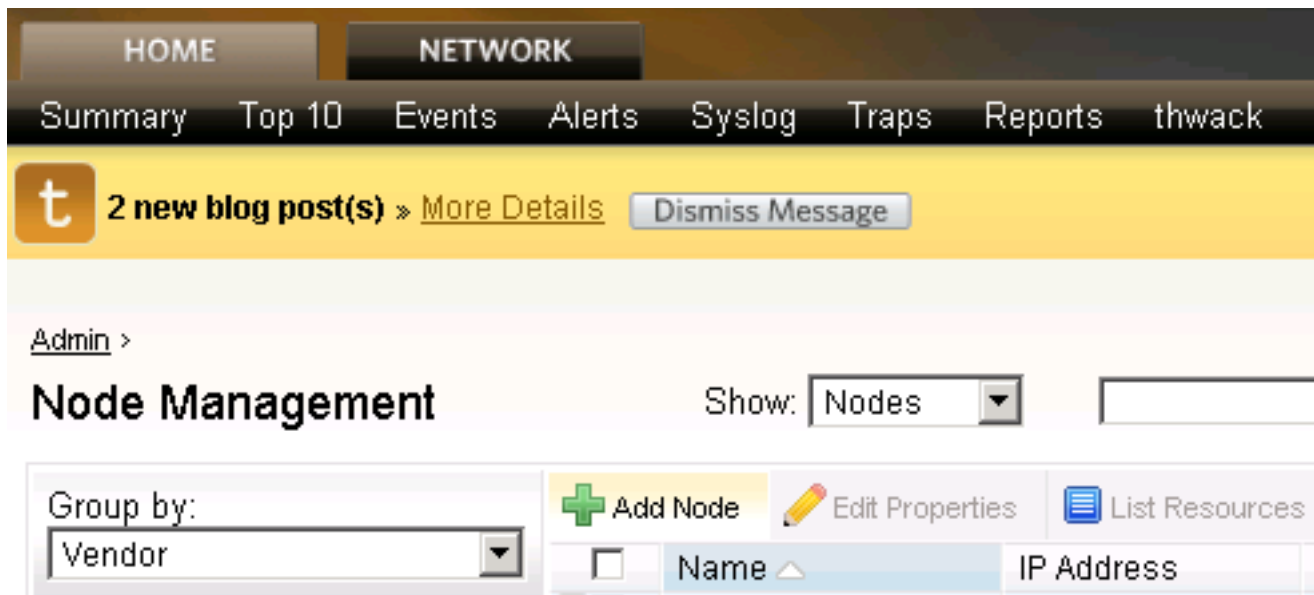
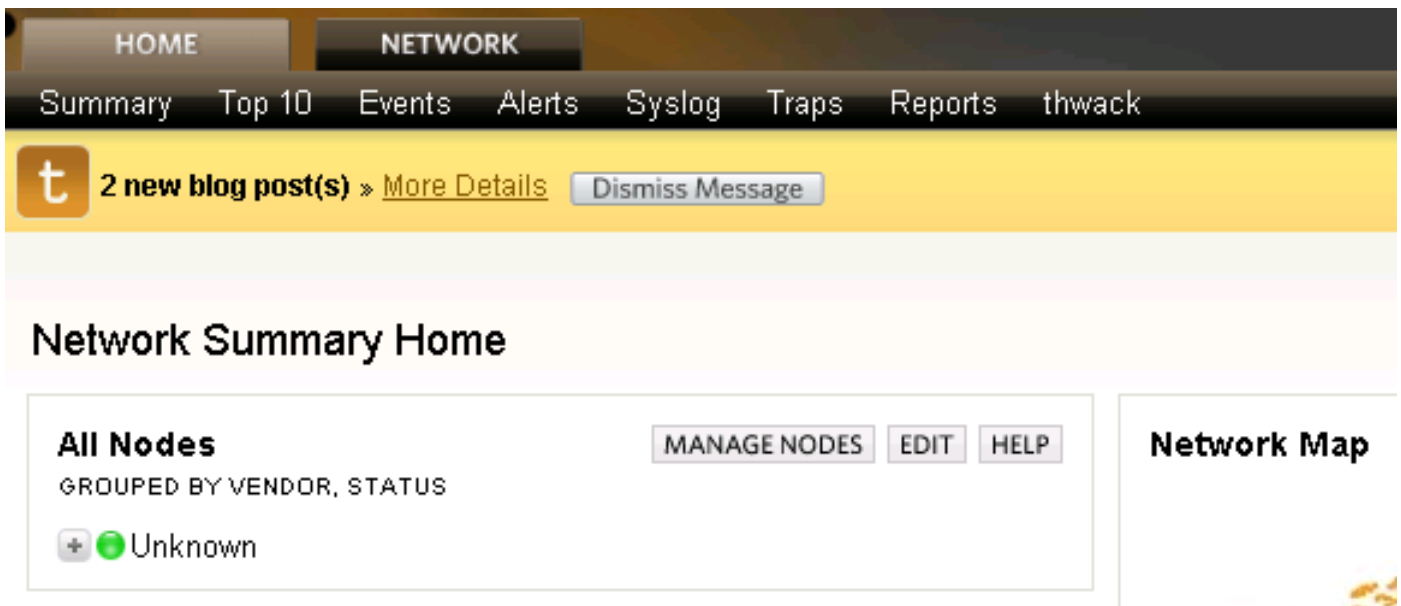
No View Limitation Defined.

- Arrange the newly allocated table Resource into the desired Column order using the arrow buttons.

Adding an Opengear Device Node

Now the basic **Opengear Node View** has been defined you can add the Opengear Console Server to **Orion NPM**.

1. Open the **Orion NPM Web Console** and navigate to **Home > Manage Nodes**.



2. Click on **Add Node**.
3. Fill in the appropriate details to add the Opengear Device using SNMP and click **Next**. Note: The Opengear Device must be configured with the SNMP service enabled.

HOME
NETWORK
Summary
Top 10
Events
Alerts
Syslog
Traps
Reports
thwack

t **2 new blog post(s)** » [More Details](#) Dismiss Message

[Admin](#) > [Manage Nodes](#) >

Add Node

DEFINE NODE > CHOOSE RESOURCES > ADD POLLERS > CHANGE PROPERTIES >

Define Node

Specify the node you want to add by completing the fields below. Are you adding a large number of nodes? Try the [Network](#)

Hostname or IP Address:

Dynamic IP Address
 ICMP (Ping only)
 Poll for ESX
 External

(DHCP or BOOTP)

ICMP nodes do not support SNMP. Orion c.

VMware nodes use VM API for collecting h

No data collection for this node.

SNMP Info

SNMP Version:

SNMP Port:

Allow 64 bit counters

Community String:

Read/Write Community String:

SNMPv2c is used for network devices that support SNMP but

Press down arrow to view all

✔ **Test Successful!**

Validate SNMP

NEXT >
CANCEL

4. Continue the **Add Node** wizard as you would usually do for any device type. When the completing the **Add Pollers** step be sure to select any Opengear Pollers you would like associated with the new node. Finish the wizard so that the Opengear has been added successfully.

Orion®

HOME NETWORK

Summary Top 10 Events Alerts Syslog Traps Reports thwack

2 new blog post(s) » [More Details](#) [Dismiss Message](#)

Admin > Manage Nodes > [HELP](#)

Add Node

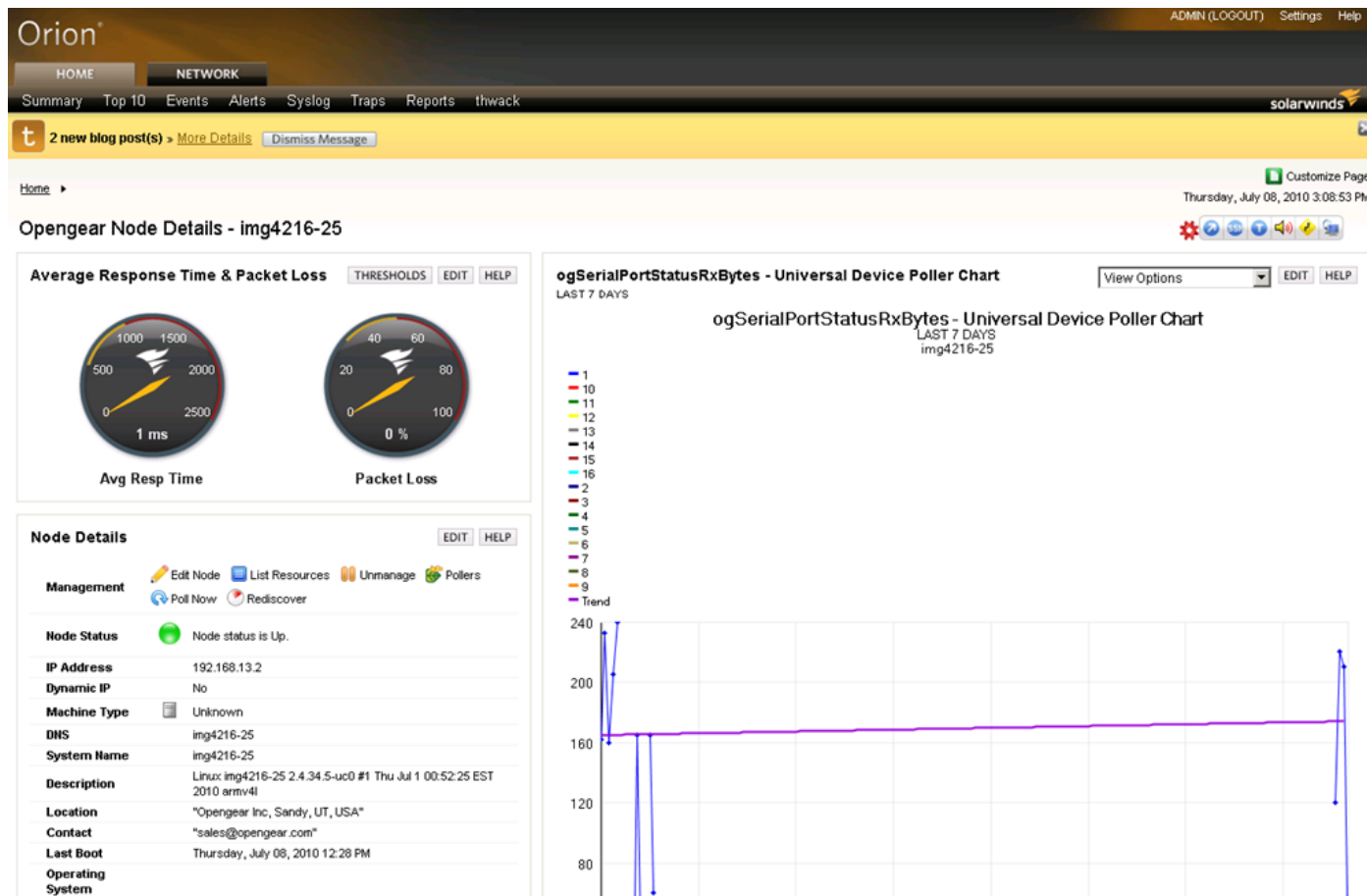
DEFINE NODE > CHOOSE RESOURCES > **ADD POLLERS** > CHANGE PROPERTIES >

Add Pollers to img4216-25
Select pollers to add to node

- Example
- Opengear Active Users
- Opengear EMDs
 - ogEmdStatusAlertCount (Number of alerts triggered on the EMD)
 - ogEmdStatusHumidity (Humidity sensor on the EMD)
 - ogEmdStatusName (The name of the EMD device.)
 - ogEmdStatusTemp (Maximum temperature on the EMD)
- Opengear Environment Alerts
- Opengear RPCs
 - ogRpcStatusAlertCount (Number of alerts triggered on the RPC)
 - ogRpcStatusMaxTemp (Maximum temperature on the RPC)
 - ogRpcStatusName (The name of the RPC device.)
- Opengear Serial Ports
 - ogSerialPortStatusCTS (The status of the CTS signal.)
 - ogSerialPortStatusDCD (The status of the DCD signal.)
 - ogSerialPortStatusDSR (The status of the DSR signal.)
 - ogSerialPortStatusPort (Serial port number)
 - ogSerialPortStatusRxBytes (Serial port bytes received)
 - ogSerialPortStatusSpeed (Serial port speed in bits per second)
 - ogSerialPortStatusTxBytes (Serial port bytes transmitted)
- Opengear Signal Alerts
- Opengear UPS Alerts
 - ogNutAlertStatusHost (The host of the nut alert.)
 - ogNutAlertStatusName (The UPS name of the nut alert.)
 - ogNutAlertStatusPort (Serial port of the nut alert)
 - ogNutAlertStatusStatus (The status of the nut alert.)

< BACK NEXT > CANCEL

5. When the Device has been successfully added you should be able to navigate to its **Opengear Node Details** View. Here you will see all the Chart and Table resources which were allocated to the View in previous steps.



- Repeat for the various Opengear devices you would like to integrate with **Solarwinds Orion NPM**.

Customizing Table Views

Now that the Opengear Device has been added and associated with the view it is likely you will want make any Table Resources you have associated with the view more meaningful by combining related columns into a unified table.

- Navigate to the **Opengear Node Details** View for the newly added Opengear Device.

Orion[®]

HOME
NETWORK

Summary
Top 10
Events
Alerts
Syslog
Traps
Reports
thwack

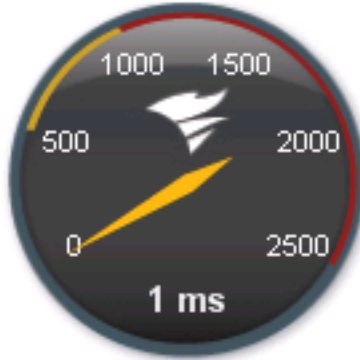
t
2 new blog post(s) » [More Details](#)
Dismiss Message

[Home](#) ▶

Opengear Node Details - img4216-25

Average Response Time & Packet Loss

THRESHOLDS
EDIT
HELP



Avg Resp Time



Packet Loss

Node Details

EDIT
HELP

Management

Edit Node
 List Resources
 Unmanage
 Pollers

Poll Now
 Rediscover

Node Status

●
Node status is Up.

IP Address

192.168.13.2

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2. Scroll down the View page until you see the **Tabular Universal Device Poller** Resource and click **Edit**.

Tabular Universal Device Poller EDIT HELP

ogSerialPortStatusPort - Label	ogSerialPortStatusPort
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16

Edit "Tabular Universal Device Poller"

Title:

Subtitle:

Leave the Title field blank to have title generated automatically.

3. Rename the **Resource** with a more contextually meaningful title.
4. Select the appropriate table columns from the available Poller Resources.

Select tabular Universal Device Pollers for display

- ogEmdStatusAlertCount
- ogEmdStatusHumidity
- ogEmdStatusName
- ogEmdStatusTemp
- ogEnvAlertStatusDevice
- ogEnvAlertStatusOldValue
- ogEnvAlertStatusOutlet
- ogEnvAlertStatusSensor
- ogEnvAlertStatusStatus
- ogEnvAlertStatusValue
- ogNutAlertStatusHost
- ogNutAlertStatusName
- ogNutAlertStatusPort
- ogNutAlertStatusStatus
- ogRpcStatusAlertCount
- ogRpcStatusMaxTemp
- ogRpcStatusName
-
- ogSerialPortActiveUsersName
- ogSerialPortActiveUsersPort
- ogSerialPortStatusCTS
- ogSerialPortStatusDCD
- ogSerialPortStatusDSR
- ogSerialPortStatusPort
- ogSerialPortStatusRxBytes
- ogSerialPortStatusSpeed
- ogSerialPortStatusTxBytes
- ogSignalAlertStatusLabel
- ogSignalAlertStatusPort
-
- ogSignalAlertStatusSignalName
- ogSignalAlertStatusState

5. Select the rows of interest to display for this Table Resource.

Select Rows to display

All

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Select the poller from which labels are taken

ogSerialPortStatusPort

6. Select the most appropriate column to use for a row label.
7. You will usually want the **Auto-Hide Resource** to be set to **Yes**.

Auto-Hide Resource

- Yes
 No

Automatically hides this resource

8. Click **Submit**.

Opengear Serial Ports						
Label	Status	TxBytes	DC	CTS	RxBytes	Status
1	0	1	0	240	0	
2	0	0	0	0	0	
3	0	0	1	0	0	
4	0	1	1	0	1	
5	0	0	0	0	0	
6	0	0	0	0	0	
7	0	0	0	0	0	
8	0	1	1	0	1	
9	0	0	0	0	0	
10	0	0	0	0	0	
11	0	0	0	0	0	
12	0	0	0	0	0	
13	0	0	0	0	0	
14	0	0	0	0	0	
15	0	0	0	0	0	
16	0	0	0	0	0	

9. Check the newly formatted table is displayed as expected in the **Opengear Node Details** View.