

Description: A guide on how to create and configure the Energy AnalytiX Viewer in GraphWorX64 and PortalWorX-SL.

General Requirement: The Energy AnalytiX sample configuration database must be active.

Introduction

This Application note will provide a guide on how to create the Energy AnalytiX Viewer in GraphWorX64, WebHMI and PortalWorX-SL, as well as configure the grid and the chart so you can view your energy consumption in visualized model. This guide requires you to already have AnalytiX installed and an active configuration for Energy AnalytiX in Workbench. If you need information about installing AnalytiX, or setting up Energy AnalytiX configuration, please refer to the product documentation.

In this app note, we will guide you through the essential steps to setup your first EA viewer in GraphWorX64 and PortalWorX-SL.

NOTE: To ensure the quality of this guide, you have to have a sample database of Energy AnalytiX. You can also refer to documentation to setup an Energy AnalytiX database by yourself.

Adding Energy AnalytiX Viewer in GraphWorX64

1. Open up **GraphWorX64** by going to Start → All Programs → ICONICS Product Suite → GraphWorX64.
2. In the GraphWorX64, click on Controls tab in the ribbon, and select **Energy AnalytiX**.
3. Drop it on the canvas, you can resize it to a suitable size.

NOTE: When you add your viewer, if you see an error says "Energy AnalytiX Product is not enabled at the Asset Catalog 'ac: Root'. Please enable Energy AnalytiX extension or select a different Asset Catalog connection," this indicates that your Energy AnalytiX extension is not enabled. To enable it, you need to open Workbench and expand Application configuration and click Installed extensions. In the panel that shows up on the right side, select Energy AnalytiX and click install. Hit Apply after it shows as Enabled.

Configuring Energy AnalytiX Viewer

1. Click on the Energy AnalytiX Viewer. You will see a new tab appears on the ribbon which is called Energy Analytics Viewer Configuration.

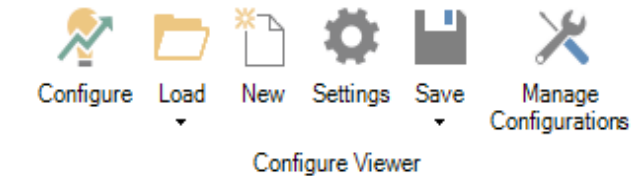


Figure 1 -Energy AnalytiX Ribbon

2. Click Configure to bring up the configuration dialog box

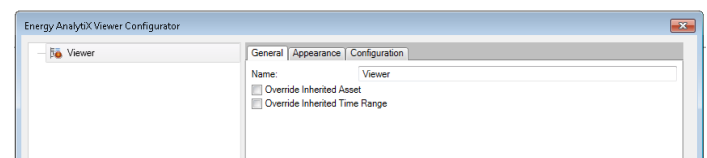


Figure 2 -Energy AnalytiX Viewer Configurator

3. There is a viewer tree on the left side and three tabs: General, Appearance, and Configuration on the Right side.
 - a. **Viewer tree:** Your viewer components, including different charts available on right click for Energy AnalytiX Data.
 - b. **General:** This will have the settings where you can configure your chart. You will also have a selection where you can set to override inherited asset and override inherited time range.
 - c. **Appearance:** Lets you customize the appearance of the viewer.
 - d. **Configuration:** Lets you name your configuration, specify author name, description and make it default.
4. We are going to use the Energy Calculation Analysis Chart in this application note.

Creating Energy Calculation Analysis Chart

1. Right click on the Viewer and select **Add Energy Calculation Analysis Chart**.
2. In the **General Tab** of the chart, check on the Override Inherited Assets and select from Specific Asset the asset that you want to use. You can also check to Override Inherited Time Range. For example: Enable auto update or reset start and end time to monitor value in different time range.
3. Go to Data tab of the Grid, and choose an appropriate Meter Type, Calculation Category, and Calculation Name. Consumption is the most common Calculation Category when users use Energy AnalytiX Viewer to gauge the energy consumption in specific plant.

NOTE: You will have to configure Energy AnalytiX first in Workbench to see the items under Consumption.

4. You can modify the Time Aggregates for this query as well.
5. Click **OK** and go to runtime, you will now be able to visualize plant's energy consumption in Energy AnalytiX Viewer.

Creating Drill Down

1. In the Energy AnalytiX Viewer configurator, on the chart we created in the previous section, select the Appearance tab.
2. Under the Chart Settings option, choose what Drill-Down Mode that will be used.

NOTE: There are a few options for drill down, and you can find more information by looking at the help files for Energy AnalytiX Viewers.

Adding Energy AnalytiX Viewer in PortalWorX-SL

1. Launch **PortalWorX-SL** by going to Start → All Programs → ICONICS Tools → PortalWorX-SL.
2. Under Home tab, click Energy AnalytiX Viewer button in AnalytiX Controls section.

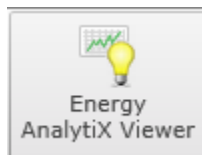


Figure 3 - Figure Energy AnalytiX Viewer Button

3. A dialog box will come up. It's OK to leave everything as default.

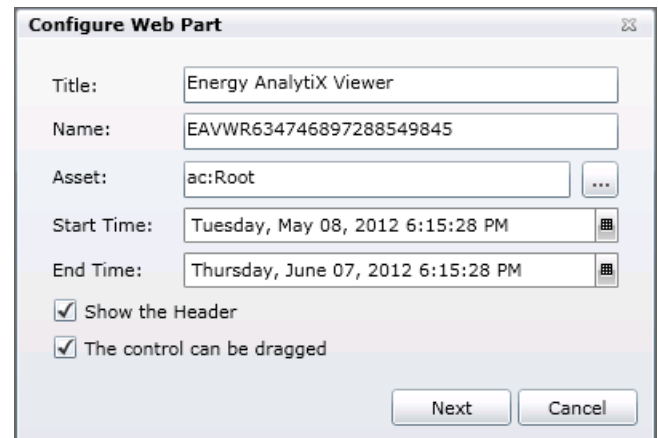
A "Configure Web Part" dialog box with the following fields: Title (Energy AnalytiX Viewer), Name (EAVWR634746897288549845), Asset (ac:Root), Start Time (Tuesday, May 08, 2012 6:15:28 PM), and End Time (Thursday, June 07, 2012 6:15:28 PM). There are two checked checkboxes: "Show the Header" and "The control can be dragged". At the bottom right are "Next" and "Cancel" buttons.

Figure 4 - Configure Web Part

4. After you click next, a same Energy AnalytiX Viewer Configurator form will be opened up. Again, you can just follow the steps in previous sections to configure your Energy AnalytiX Viewer.

To find out more information about other charts, you can find out more information in the *Energy AnalytiX - Charting* Application Note and help files.