



User Guide Part 6

Model Browser

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user to other mimics. This is the standard runtime behavior of traditional HMI applications. The entire look, feel and functionality of the client program are defined entirely by the designer of the mimic screens.

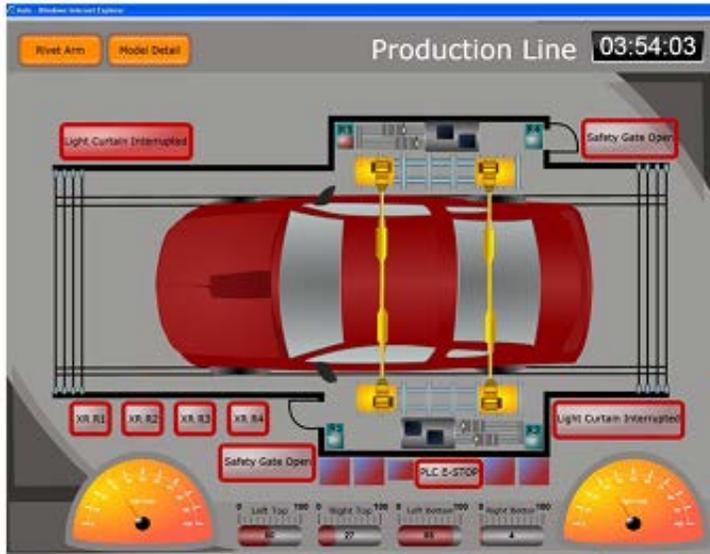
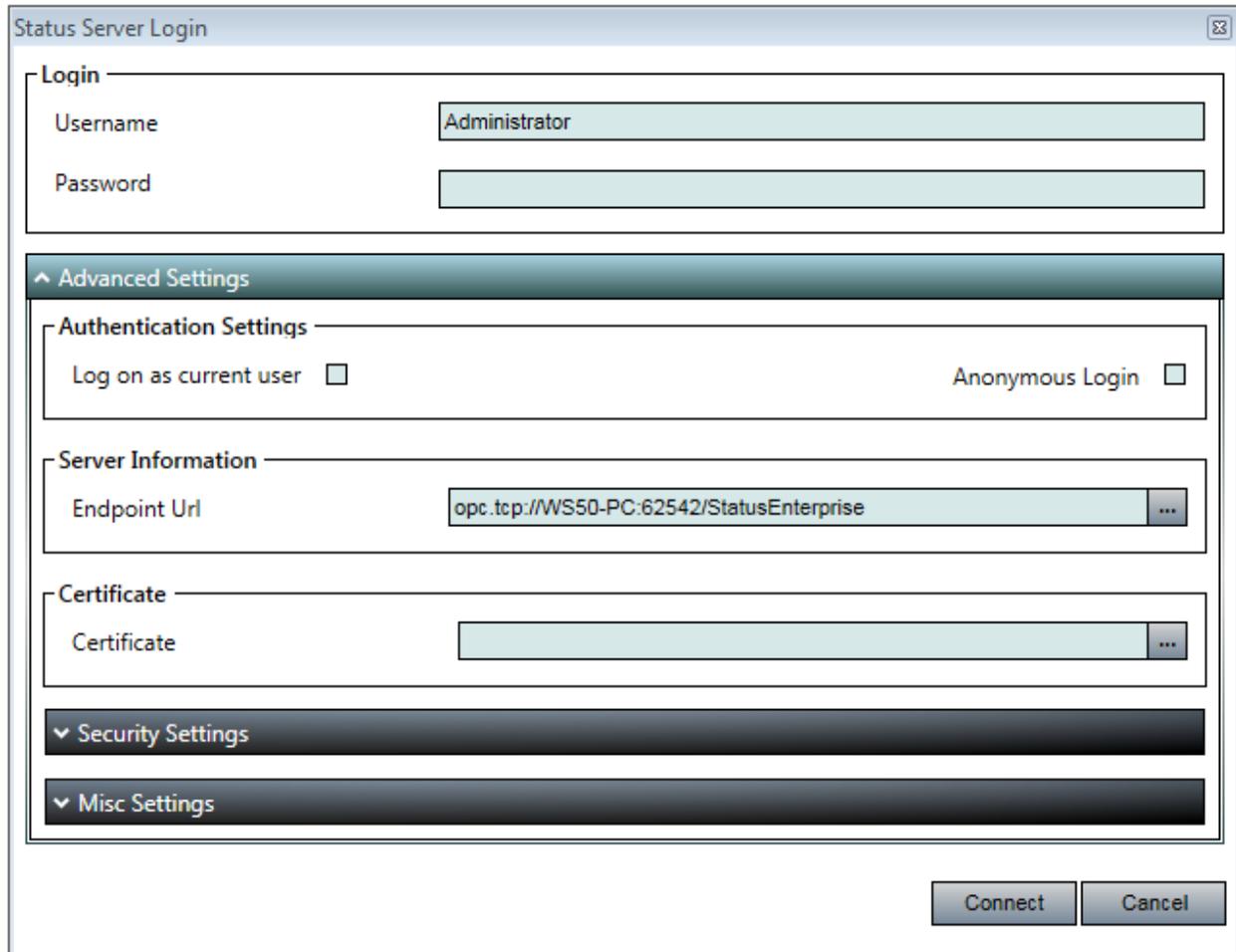


Figure 2 - Main Screen Mimic

2 Model Browser

2.1 Starting the Model Browser

The Model Browser is started in the same manner as all Status Client applications. The user will need to log into the Status Server with a valid user account.



The screenshot shows a dialog box titled "Status Server Login". It contains several sections for user configuration:

- Login:** A section with two text input fields. The "Username" field contains the text "Administrator". The "Password" field is empty.
- Advanced Settings:** A section with a dark header and a light body, containing:
 - Authentication Settings:** Two checkboxes. "Log on as current user" is unchecked. "Anonymous Login" is also unchecked.
 - Server Information:** A text input field for "Endpoint Url" containing "opc.tcp://WS50-PC:62542/StatusEnterprise".
 - Certificate:** A text input field for "Certificate" which is empty.
- Security Settings:** A dark header bar with a downward-pointing arrow.
- Misc Settings:** A dark header bar with a downward-pointing arrow.

At the bottom right of the dialog, there are two buttons: "Connect" and "Cancel".

Figure 3 - Status Server Login

Once the user is logged in, the available assets will be displayed in the Assets Tree.

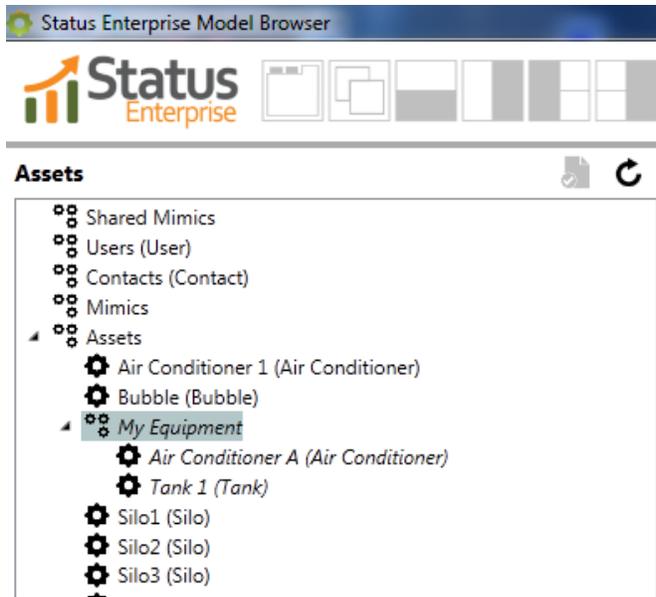


Figure 4 - Assets Tree

2.2 Workspaces and Accessibility

Workspaces configured in the Data Model become significant in the Model Browser. Only the assets that the logged on user has access to will be displayed in the Assets Tree. Users will not be able to access assets that are associated with workspaces that they are not a member of.

2.3 Viewing Data

Regardless of what you are viewing in the Model Browser, all data whether a mimic, trend or alarm is shown in a panel. Panels can be arranged as floating, in a tab control or in a table format. Use the icons in the top of the Model Browser to choose your desired layout.



Figure 5 - Panel Layouts

2.3.1 Mimics

Mimic Templates can be opened by double-clicking the mimic in the Document Tree. Then, it will prompt the user to select the asset. The assets that matches the template type will become enabled in the Assets Tree; assets that do not match the document type will become disabled.

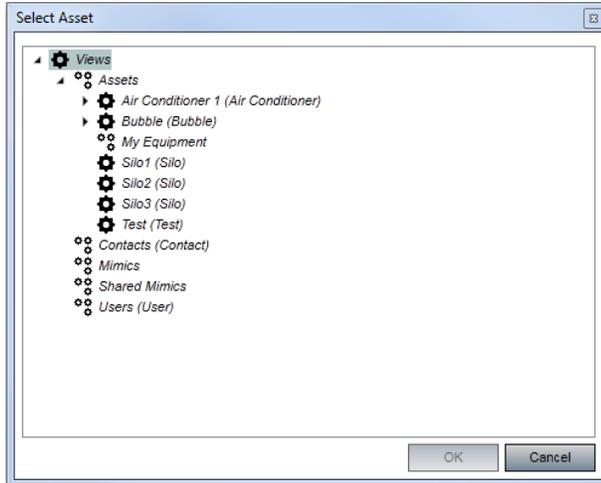


Figure 6 - Select Asset

Regular mimics (mimics not created for a Type) may always be opened. Mimics can be opened by double-clicking the mimic in the Document Tree.



Figure 7 - Mimic Open in the Model Browser

Each Mimic behaves like a small Status Client. Navigation will work for each mimic within the panel that the mimic is being displayed in.

2.3.2 Trends

When you select an asset in the Assets Tree, a Trend will become available for each numeric property (double, integer) on the asset you selected. Double-click on a Trend on the Trends tab to launch the Trend.

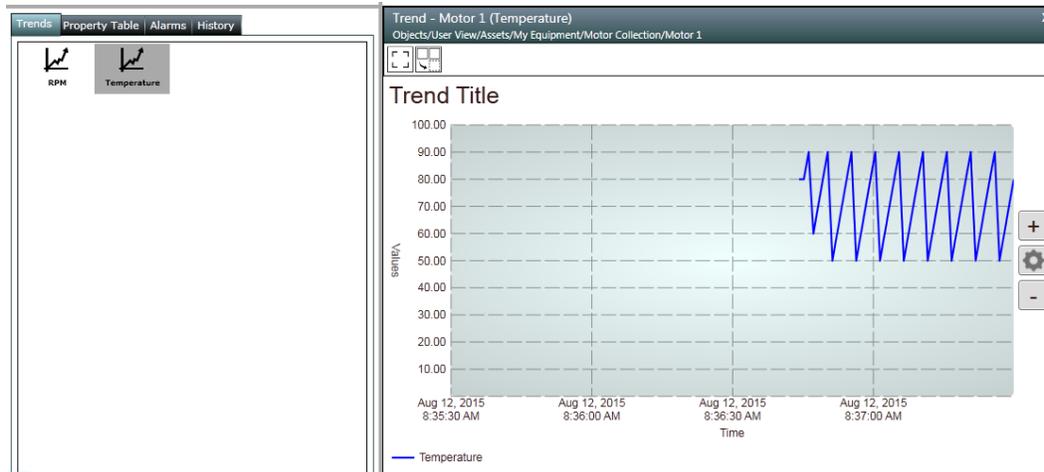


Figure 8 - Trend in the Model Browser

The Trend will start logging any new value changes on the property to the graph. As with Trends in the Mimic Designer, Model Browser Trends allow for viewing real-time or historical data.

The buttons to the right are used to alter the way the trending information is displayed. The <+> and <-> buttons function like zoom buttons changing the frequency of the viewing area. Zooming in will decrease the amount of time covered in the display, thereby allowing a more detailed analysis of the Trend data. Zooming out will have the opposite effect.

Selecting the <Settings> button in the middle of the button group will display a dialog box providing options for toggling the Auto Scroll feature, switching between Real Time and Historical Data, and setting additional options for the viewing area of the Trend: Start Time, Duration, and Grid Frequency.



Figure 9 - Trend Settings

A set of configuration options is provided in a panel near the bottom of the Trend

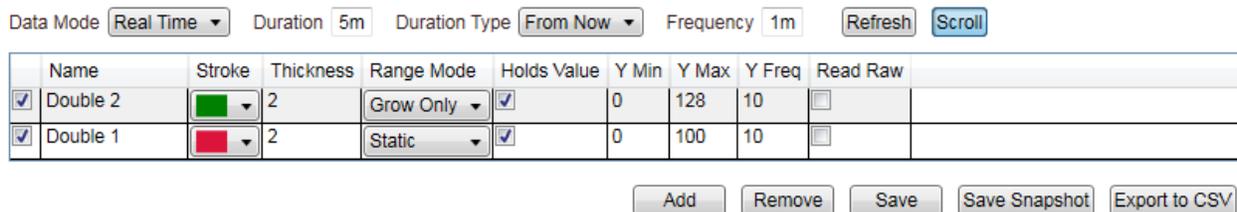


Figure 10 - Trend Configuration Panel

This configuration panel gives many options for editing the Trend. The Data Mode option is for viewing Real Time or Historical Trend Data. The Duration will allow you to select the timespan that you are viewing in the trend. This can be in the format of 5m or 5d (meaning Minutes or Days). The Duration Type will allow you to choose what kind of Historical Data you are seeing on the Trend. The options to choose from are; From Now, Previous, or None. The Frequency will allow you to change the span in

between each duration marker. When changes are made to the trend you will need to click the Refresh button before they are executed. Additionally the Scroll button will allow you to Enable/Disable the Auto Scroll feature.



Figure 11 - Trend Configuration Options

Below that there is another section to this Configuration panel. This is used to edit the Pens you have on the Trend. From the left the check box will allow you to change the Visibility of the Pen from Visible to Collapsed. The Name column can be edited to give a Pen a new Name, if necessary. The Thickness property will allow you to change the Thickness of individual pens on the Trend. Range Mode has a drop down box with 3 options; Static, Grow Only, and Fit. Static will make the trend stay at the size it was set for even if the Pens draw outside the visible trend area. Grow Only will allow the Trend graphs Max value to increase as needed to follow the Trend Line. Fit will allow the Trend graphs Min and Max values to change to follow the Trend Line. Holds Value will only work if you have a static value on your Trend, and it will allow you to freeze the Pen if needed. Y Min and Y Max are used to set the Minimum and Maximum values on the Trend for that specific Pen, and the Y Freq is for changing how the values increase.(Y freq set to 10 will give you values of 10,20,30,40 and so on). Read Raw will allow you to receive either Raw Data from the server, or Interpolated Data.

- Allows you to Add a new Pen to the Trend.
- Allows you to Remove a Pen from the Trend.
- Allows you to save the Trend as a Mimic in your Model to be opened and viewed later.
- Allows you to save the Trend as a picture to your machine to be viewed later.
- Allows you to save the Trend into an Excel Spreadsheet to be viewed later.

Figure 12 - Buttons in the Trend UI

2.3.3 Property Table

Selecting the Property Table tab will open a property table for the selected asset.

2.3.3.1 Property Name

The name given to the property from Model Designer

2.3.3.2 Value

The data stored in property and the date from the data provider.

2.3.3.3 Quality

Values received from the data provider were determined Good or Bad.

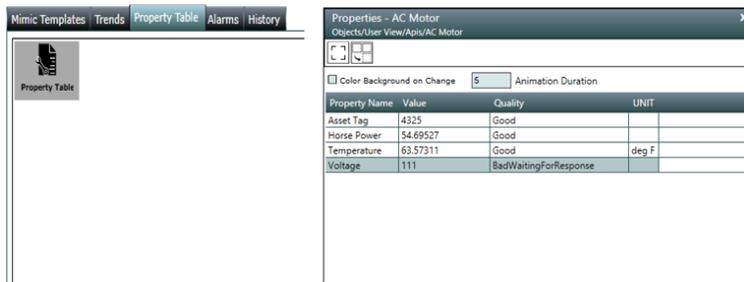


Figure 13 - Property Table

The Property Table displays the real-time value of all of the properties on the asset selected in the Assets Tree. Values are live and update if the property values change at the server. For properties that are writable, modifying the property in the Property Table will update the data model at the server.

Selecting a collection in the Assets Tree and viewing the Property Table for the selected assets will bring up a Property Table for each item in the collection.

2.3.4 Alarms

The Alarms tab allows you to view a table listing all of the active alarms for an asset.

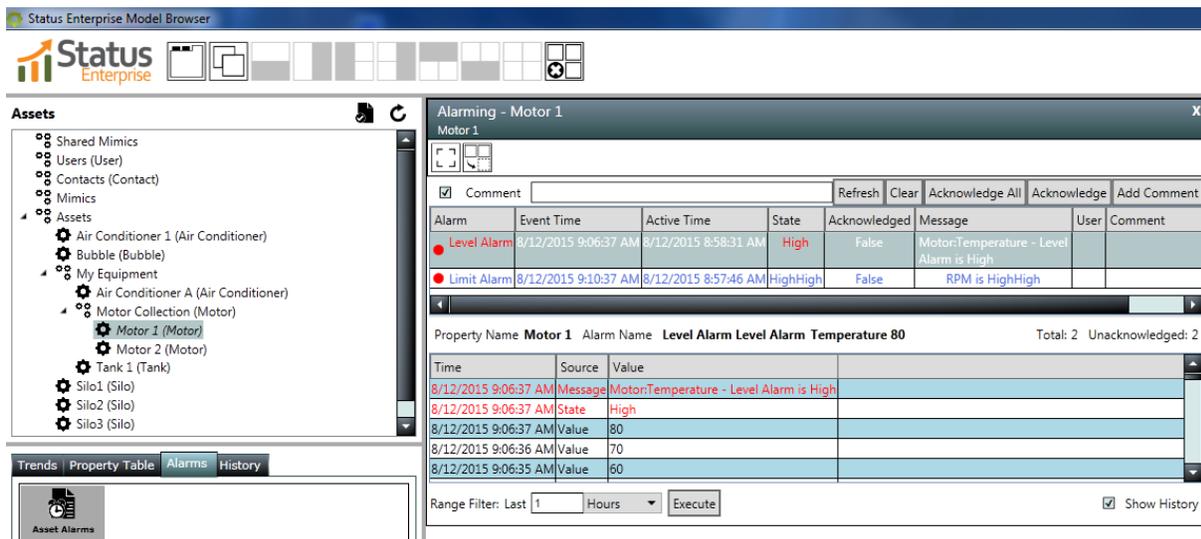


Figure 14 - Alarms in the Model Browser

Viewing alarms for an asset also displays alarms of any components or collections that belong to the asset. For more detailed information on Alarming, see Part 8 - Alarming.

2.3.5 History

The History tab allows you to view historical data for the properties of a selected asset.

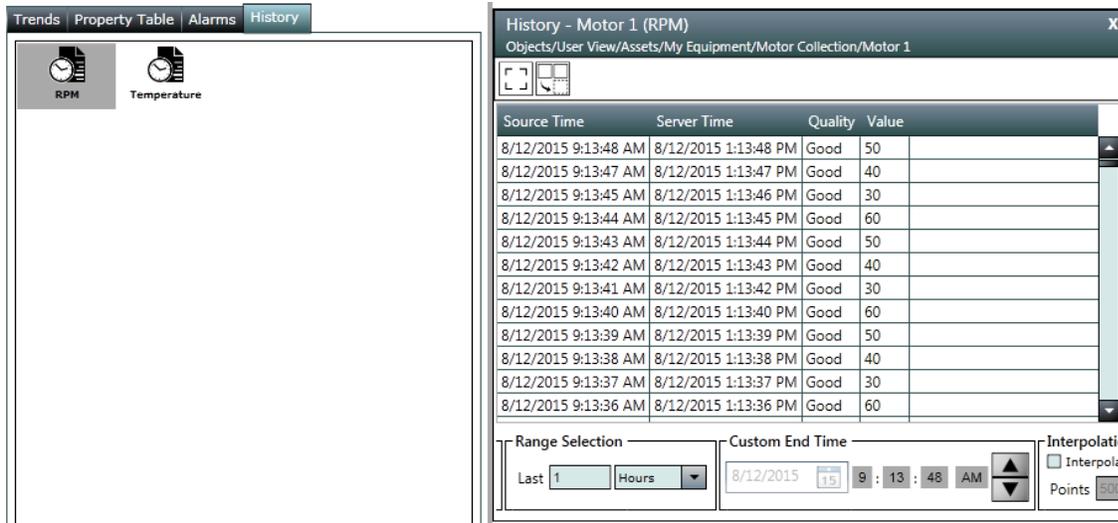


Figure 15 - History Table in the Model Browser

By default, the table displays all of the values recorded in the last minute. If more than a minute has passed since the last change in value, the most recently recorded value will be displayed. This information is available only for the properties on which the <Historizing> option has been selected in the Data Model Designer.

For each table entry, four distinct pieces of information are provided:

- Source Time: the exact time the new value was measured at the source
- Server Time: the exact time the value was received and recorded in the database
- Quality: the quality of the record will be listed as Good or Bad
- Value: the exact value of the property that was recorded

The History Configuration panel located at the bottom of the History provides several configuration options.

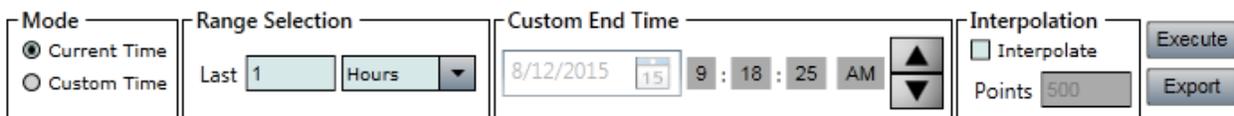


Figure 16 - History Configuration Panel

You can choose to view historical values using the Current Time which allows you to specify a particular range (i.e. 1 minute, 2 hours, 3 days, etc.) or you can select a Custom Time which allows you to specify a Custom End Time with which you would like to view the recorded values. Interpolation will create new averaged data points within a specified range rather than returning a list of all raw values.

3 Additional Information and Support

For more information in using Status Device Cloud, please visit us at www.scadauniversity.com. This will give you access to instructional videos, documentation and our online forum. You can also email B-Scada support at support@b-scada.com.



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