OpenEnterprise Menus Reference Guide (V2.83)
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1 OEMenus

The OpenEnterprise Menu Editor is a core component within the OpenEnterprise product suite that enables inter-operability between View components within the OEDesktop environment. Menus created with the OEMenu Editor are called Custom menus.

1.1 Custom Menus

OpenEnterprise Views are Workstation components which enable the viewing of OpenEnterprise data within the OEDesktop environment. The View components are - Alarm View, Alarm Banner View, Alarm Printer View, Graphics View, Trend View, Signal View, SQL View, Notes View, Web View and Report Selector View.

Custom context menus can be created for most Views. This means that when the View is running within the OEDesktop, for all views except the Graphics View, right clicking on the View window will display the Custom menu (see the example below). For the Graphics View, left clicking displays the context menu.

1.1.1 Example View Custom Menu

The example below shows a Custom context menu within an Alarm View window. The selected menu item will filter the Alarm View by Priority.

1.1.2 Example OEDesktop Custom Menu

Using OEMenus we can also extend the OEDesktop menu bar. The example below shows a number of Custom menu items added to the OEDesktop menu bar. These have been added using the OEMenu Editor. The selected menu item also filters the Alarm View by Alarm Priority.
1.2 Sources, Targets and Actions

When a Custom menu is used in OpenEnterprise, it involves a Source View, a Target (which is usually also a View) and a menu Action.

1.2.1 Source and Target

When configuring OEMenus, it is helpful to keep in mind the concept of the Source and Target View. One View will be the Source (i.e. the View which displays the menu item), and the other View will be the Target (this is the View which will be loaded into the OEDesktop from the menu item). There is one Target that is not a View at all - the OPC Server, which performs database updates from OEMenus.

1.2.2 Actions

Another concept to be clear about when using OpenEnterprise Custom Menus is that of Menu Action. There are four options available, depending on the Source and Target components:

1.2.2.1 Load File

This action is available for all Target Views. It enables the Custom Menu on the Source View to open another View file into the OEDesktop, or to open a Windows application (such as Notepad).

1.2.2.2 Load File with Parameters

This action enables the Source application to not only open another View file within the OEDesktop (the Target), but to also pass Parameters from the Source to the Target View.

1.2.2.3 Load File from OPC Tags

This action is only available when the Source is a Graphics View and the Target is a Trend View. It enables the user to configure a Custom menu on an object in a Graphics display that will open a Trend View. As the Trend View opens the user is shown a dialog that lists all Tags obtained from the object on which the Custom menu was configured on the Source View. The user can then select one or more of these Tags to apply to the Target Trend View.

1.2.2.4 Database Update

This is the only option available if the Data Server has been chosen as the Target for the Custom menu.
1.3 Views and Data Sources

When configuring Custom menus, it is not only helpful to think in terms of which View is the Source and which is the Target, but also to bear in mind where each View gets its data from. Where the View gets its data from largely determines the kind of data that each View can pass or receive via a Custom menu.

1.3.1.1 The Data Source - Tables or Tags?

Whatever the type of View, it will source its data directly from either the OpenEnterprise Database in the form of rows and columns, or the Bristol OPC/HDA Server in the form of OPC tags. Below is a diagram which seeks to illustrate this.

1.4 Views and their Data Display

OpenEnterprise Views that display data from the OpenEnterprise database generally obtain that data from one of two sources. They either get the data directly from a specialist Server component that requests the data from the OpenEnterprise Database in the form of rows and columns (i.e. the Alarm Server serves the Alarm View with data), or they get the data from the Bristol OPC/HDA Server in the form of OPC/HDA tags.

1.4.1 Views Displaying Data from Table Columns

This is a list of OpenEnterprise Views which display data received in tabular format:

- Alarm View / Event View
• Alarm Printer View
• Alarm Banner View
• Database Object Viewer (SQL View)
• Notes View
• Signal View (Bristol RTUs only)

1.4.2 Views Displaying Data from OPC Tags

These are the OpenEnterprise Views which display data received as OPC Tags:

• Graphics View
• Trend View

1.4.3 Views Displaying other types of Data

These views do not display data directly from the OpenEnterprise database.

• Web View - displays data from the Web
• Report Selector - displays and generates reports found in the database

1.5 Parameters and Aliases

Parameters and Aliases are what make OEMenus such an important and useful feature of OpenEnterprise. In general, Parameters and Aliases enable key information to be passed around between the same or different types of Views in OpenEnterprise.

To avoid confusion, it may be helpful to first define the terms Parameters and Aliases as they will be used within this document.

1.5.1 Parameter - definition

A Parameter is a value that is sent from the Source View via OEMenus. The Parameter is associated with a particular Alias on the Target View, giving it a value.

1.5.2 Alias - definition

An Alias acts as a placeholder or a variable on a Target View. An Alias can be a specially formatted string, a database attribute or a class attribute on the Target View. The Alias is given a value, or 'resolved' by the Parameter that has been passed to it from OEMenus. Sometimes a default value can be assigned to an Alias in configuration mode. The default Alias value is overridden by a value passed via OEMenus during runtime operation. In runtime mode, a resolved Alias can be used as a Parameter.
1.5.3 Aliases and Parameters - what's the difference?

Since Aliases can be sent as Parameters when they have a value, it is tempting to think of Parameters and Aliases as the same thing. However, functionally they are not the same. A Parameter is a value. An Alias is a variable that must be given a value. Unless the Alias exists in a View that allows the assignment of default values to Aliases, it has no value until it is resolved when loaded by a Custom OEMenu. When you use a resolved Alias as a Parameter, you are not sending the Alias to the Target View, you are sending its current value.

1.5.4 User defined string Aliases

An Alias is a variable name, so it is a string of some sort. With Views that insert Aliases into a string (i.e. as part of an OPC tag, or an SQL statement), the string can be anything as long as it is surrounded by "<<" and ">>" characters (i.e. <<DEVICENAME>>). We recommend using uppercase characters for this type of Alias to distinguish it from column type Aliases, which are usually in lower or mixed case.

1.5.5 Aliases that are class attributes

Other views do not use user defined strings as aliases, but use internal class attributes within the View itself as Aliases.

The Report Selector is such a View. You can use an OEMenu to configure a Report Selector file so that it opens showing disabled reports by defining the Target Alias as 'ShowDisabledReports', and the value as True.

The Alarm View has internal alias names that correspond to the attributes found in the alarmsummary table. These attribute names can be used with OEMenus to filter the Alarm View. To filter an Alarm View on the device name, define the Target Alias as 'devicename' (without the quotes), and the value as an actual devicename (i.e. NORTH).

Although the concept of Parameters and Aliases may seem a little daunting at first, they are definitely worth learning about, because ....

1.5.6 Aliases reduce display creation

Here is a very simple example to show how Aliases reduce the number of displays you need to create. Imagine there are a number of Tanks (say nine Tanks - but it could be ninety) that need to be monitored.

Normally, you would have to create a main display from which you select the desired Tank, and then you would need to create a separate display for each individual Tank because each Tank would require a unique OPC tag. However, using Aliases, instead of having to create separate displays for each Tank, you only need to create one display, which uses one OPC tag containing one or more aliases. Then that one display can be used to display the details for all the other Tanks.

In the example below, the main display invites users to select one of the Tanks. There are three RTUs, each monitoring three Tanks. That would normally mean nine separate displays.
Because we are using Parameters and Aliases, however, we only need one display which will suffice for all nine Tanks.
Each Tank has a Custom Menu on it, which runs when the user clicks on it. We can send the RTU and Base part of the signal name as parameters each time we open the Selected Tank display and the aliases resolve to display the tank that was selected.

## 2 The Two Types of Alias

There are two types of Alias. String Aliases are user defined, but Class Aliases are defined by the View itself, so you need to know what they are so you can use them.

### 2.1 String Aliases

As a general rule, string Aliases are recognized by OEMenus as a string inside double chevrons (e.g. `<<ALIAS>>`). String Aliases have to be inserted into a string in the Target View. The way that this takes place varies according to the properties of the View. There are currently five Views that use string Aliases:
2.1.1 Graphics View

Aliases can be inserted into the Data Source window of a dynamic object on a Graphic View. The alias can be entered on its own or as part of an OPC tag.

When entered by itself, the Alias is typed into the Data Source window of the dynamic object with $" "$ delimiters (e.g. $"<<DEVICENAME>>"$), which causes the defined Alias to be displayed on its own as a string.

If the Alias is inserted as part of an OPC Tag into the Data Source window, the part of the OPC Tag which will be replaced by the Alias is removed and the Alias is put in its place. For example, to send the Base part of the signal to a Target View as a Parameter, if the original OPC Tag is:-

\[\text{BristolBabcock.BristolOPCServer"rtrdb1"."realanalog"."name:char:"IP1:TANK3.LEVEL."."value:float".}\]

Then we have to edit the OPC string to be:-

\[\text{BristolBabcock.BristolOPCServer"rtrdb1"."realanalog"."name:char:"IP1:<<BASE>>.LEVEL."."value:float".}\]

If this display is going to contain Custom menus of its own (i.e. it is going to become a Source View), you will need to give the Dynamic object on which the Alias has been placed a name, so that OEMenus can refer to the resolved Alias when the time comes to send that value to the Target View.

2.1.2 Trend View

With Trend Views, the Alias is embedded as part of the OPC Tag for a Pen. Aliases configured in this way are displayed on the 'Parameters' Tab of the Trend Properties dialog. This enables the user to configure an initial value for the Aliases, so that if the saved Trend is opened directly into the OEDesktop, rather than via OEMenus, it will still show data.

2.1.3 SQL View (.DBX File)

A string Alias can be embedded into an SQL Query created with Database Object Viewer (DOV) as part of the condition on the 'Conditions' Tab of the DOV. For example, take a query in which the name and value of all analog signals are selected, but there is a condition on the Condition Tab which limits the signals to those that have 'LEVEL' in their name. The condition would read \text{name like '%LEVEL%'}. The string of the actual condition can be replaced by an Alias. For example, I could create an alias in the condition clause by typing \text{name like '%<<NAME>>%'}. The << and >> characters now mark this out as a string Alias.

Now, we could create a Custom Menu on the Source View to open this SQL View file, sending a Parameter with a name of 'NAME', defined as a constant string value, depending on what signals we wanted to display.

The value of the Alias can also be temporarily defined on the 'Parameters' tab of the DOV, so that the View file can be opened outside of the OEMenus system and still display a result.

2.1.4 Notes View

String Aliases within Notes View can be embedded on the Display tab in the Custom/Name field and also on the 'Configure Default Recipient' dialog. The Aliases on the Display tab Custom/Name field will be matched to Parameters from the Source View to filter the display of Notes in the Notes View.
An Alias (e.g. &lt;&lt;USERNAME&gt;&gt;) configured on the 'Default Recipient' dialog enables a Source View, or a Custom OEDesktop menu to open the Notes View file, passing the name of a Default User to it. This will mean that when the current user sends a note using this Notes View file, it will be automatically addressed to the user defined as the Default Recipient from the Source Custom menu.

2.1.5 Web View

Within Web View, string Aliases can be inserted into the 'Homepage' URL field on the General configuration page of the Web View in configure mode. They are inserted in the usual format (e.g. &lt;&lt;HOMEPAGE&gt;&gt;), and can be part of the URL or can represent the whole URL.

2.2 Class Aliases

Class Aliases are not created by the user. They are internal class names that are used in the View itself to configure the View.

You need to know the names of these Aliases before you can use them with OEMenus. Three Views use Class Aliases to filter their contents:

2.2.1 Alarm View Aliases

The Alarm View displays either current alarms or past events and alarms, depending on how it is configured. Alarm View Column Aliases have exactly the same names as the actual attributes in the AlarmSummary table. They can be viewed from the 'Parameters' tab of the Modify Filter Alarm View Property dialog.

Alarm View column Aliases can be used when the Alarm View is a Target to filter the Alarm View. For instance, to filter an Alarm View on the device name, define the Target Alias as 'devicename' (without the quotes), and the value as an actual device name. The value can be a constant value, or based on an object selected by the user in the Source View.

<table>
<thead>
<tr>
<th>Target Alias name in Alarm View</th>
<th>Values and Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>accessarea</td>
<td>Filters the Alarm View according to the supplied accessarea of the alarm</td>
</tr>
<tr>
<td>acknowledged</td>
<td>Filters the Alarm View according to the supplied acknowledged state of the alarm</td>
</tr>
<tr>
<td>attribute</td>
<td>Filters the Alarm View according to the supplied attribute value of the alarm</td>
</tr>
<tr>
<td>base</td>
<td>Filters the Alarm View according to the supplied base value of the alarm</td>
</tr>
<tr>
<td>calloutarea</td>
<td>Filters the Alarm View according to the supplied calloutarea of the alarm</td>
</tr>
<tr>
<td>cleared</td>
<td>Filters the Alarm View according to the supplied cleared state of the alarm</td>
</tr>
<tr>
<td>clienttype</td>
<td>Filters the Alarm View according to the supplied clienttype of the alarm</td>
</tr>
<tr>
<td>condition</td>
<td>Filters the Alarm View according to the supplied condition of the alarm</td>
</tr>
<tr>
<td>description</td>
<td>Filters the Alarm View according to the supplied description of the alarm</td>
</tr>
<tr>
<td>devicename</td>
<td>Filters the Alarm View according to the supplied devicename</td>
</tr>
</tbody>
</table>
of the alarm

<table>
<thead>
<tr>
<th>eventtype</th>
<th>Filters the Alarm View according to the supplied eventtype of the alarm</th>
</tr>
</thead>
<tbody>
<tr>
<td>extension</td>
<td>Filters the Alarm View according to the supplied extension of the alarm</td>
</tr>
<tr>
<td>name</td>
<td>Filters the Alarm View according to the supplied name of the alarm</td>
</tr>
<tr>
<td>operator</td>
<td>Filters the Alarm View according to the supplied operator of the alarm</td>
</tr>
<tr>
<td>plantarea</td>
<td>Filters the Alarm View according to the supplied plantarea of the alarm</td>
</tr>
<tr>
<td>priority</td>
<td>Filters the Alarm View according to the supplied priority of the alarm</td>
</tr>
<tr>
<td>suppressed</td>
<td>Filters the Alarm View according to the supplied suppressed state of the alarm</td>
</tr>
</tbody>
</table>

Class Aliases

2.2.2 Signal View Aliases

The Signal View displays signals from Bristol RTUs. The signals displayed can be filtered by sending Parameters to the Signal View from any Source View via a Custom menu. The Alias names of the Signal View are shown in the list below. Note that they are case sensitive.

<table>
<thead>
<tr>
<th>Target Alias name in Signal View</th>
<th>Values and Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>rtu</td>
<td>Filters the Signal View according to RTU name. The value will be the name of an RTU.</td>
</tr>
<tr>
<td>instance</td>
<td>Filters the Signal View according to the instance part of a ControlWave signal name. The Instance part of a ControlWave signal name is defined as being all characters prior to the last full-stop, (period).</td>
</tr>
<tr>
<td>searchstring</td>
<td>Used to filter the Signal View for ControlWave signals. If the Instance part of the signal name has been defined, searchstring is assumed to be equivalent only to the Variable part of the signal name. If the Instance has not been defined, then searchstring is assumed to be a full string search, including the Instance and Variable parts of the ControlWave signal name.</td>
</tr>
<tr>
<td>signal</td>
<td>Filters the Signal View by specific Signal name. The value will be the name of a signal.</td>
</tr>
<tr>
<td>base</td>
<td>Filters the Signal View by the base part of the Signal name. The value will be a valid base name.</td>
</tr>
<tr>
<td>extension</td>
<td>Filters the Signal View by the extension part of the Signal name. The value will be a valid extension name.</td>
</tr>
<tr>
<td>attribute</td>
<td>Filters the Signal View by the attribute part of the Signal name. The value will be a valid attribute name.</td>
</tr>
<tr>
<td>logical</td>
<td>Filters the Signal View according to Logical Signals that are in alarm. Value must be set to true (Lower Case).</td>
</tr>
<tr>
<td>highhigh</td>
<td>Filters the Signal View according to Analog signals that are in HighHigh alarm. Value must be set to true (Lower Case).</td>
</tr>
</tbody>
</table>
### high
Filters the Signal View according to Analog signals that are in High alarm. Value must be set to \textit{true} (Lower Case).

### low
Filters the Signal View according to Analog signals that are in Low alarm. Value must be set to \textit{true} (Lower Case).

### low\textbf{low}
Filters the Signal View according to Analog signals that are in LowLow alarm. Value must be set to \textit{true} (Lower Case).

### alarm
Filters the Signal View according to the Alarm bit setting on Alarm signals. Values can be \textit{none, enable or inhibit}.

### control
Filters the Signal View according to the Control Bit setting for signals. Values can be \textit{none, enable or inhibit}.

### manual
Filters the Signal View according to the Manual Bit setting for signals. Values can be \textit{none, enable or inhibit}.

### questionable
Filters the Signal View according to the Questionable Bit setting for signals. Values can be \textit{none or set}.

#### Class Aliases

##### 2.2.3 Report Selector Aliases

The Report Selector displays published reports from the database. Every part of its configuration can become an alias for use with OEMenus. Below are the names of the Class Aliases available for use with the Report Selector as a Target for OEMenus.

<table>
<thead>
<tr>
<th>Target Alias name in Report Selector View</th>
<th>Values and Comments</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dataservice</td>
<td>The name of the data service to use.</td>
<td>rtrdb1</td>
</tr>
<tr>
<td>AllowRuntimeConfiguration</td>
<td>Allow configuration settings to be changed while in run mode.</td>
<td>False</td>
</tr>
<tr>
<td>ShowToolbar</td>
<td>Flag to indicate if the toolbar should be shown.</td>
<td>False</td>
</tr>
<tr>
<td>ShowNextPrevious</td>
<td>Flag to indicate if the next and previous buttons should be shown.</td>
<td>True</td>
</tr>
</tbody>
</table>
| DoubleClickShowMode                      | Value representing the double click view mode.  
0 - All  
1 - Oldest  
2 - Newest | 0 |
<p>| CalendarContextRun                       | Flag to indicate if the run menu item should be displayed on the calendar date context menu. | True |
| CalendarContextRunPublish                | Flag to indicate if the run and publish menu item should be displayed on the calendar date context menu. | True |
| CalendarContextReportList                | Flag to indicate if a list of available reports should be displayed on the calendar date context menu. | True |
| ShowAllReports                           | A flag to indicate if all reports should be displayed in the reports drop down list and not just selected reports. | False |
| ShowDisabledReports                      | A flag to indicate if disabled reports should be displayed in the reports drop down list. | False |</p>
<table>
<thead>
<tr>
<th><strong>FormatShowMode</strong></th>
<th>Determines what formats are displayed in the format drop down list.</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 – Show all formats</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 – Show configured formats</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 – Show selected formats</td>
<td></td>
</tr>
<tr>
<td><strong>ShowDisabledFormats</strong></td>
<td>A flag to indicate if disabled formats should be displayed in the reports drop down list.</td>
<td>False</td>
</tr>
<tr>
<td><strong>ShowAllFilters</strong></td>
<td>Allow all the filters?</td>
<td>True</td>
</tr>
<tr>
<td><strong>AllowReportNameSelect</strong></td>
<td>Allow the report name to be selected?</td>
<td>True</td>
</tr>
<tr>
<td><strong>AllowReportFormatSelect</strong></td>
<td>Allow the report format to be selected?</td>
<td>True</td>
</tr>
<tr>
<td><strong>AllowPrimaryAliasValueEdit</strong></td>
<td>Allow primary alias value to be edited?</td>
<td>True</td>
</tr>
<tr>
<td><strong>AllowOtherAliasValuesEdit</strong></td>
<td>Allow other alias values to be edited?</td>
<td>True</td>
</tr>
<tr>
<td><strong>AllowDateSelection</strong></td>
<td>Allow report date to be selected?</td>
<td>True</td>
</tr>
<tr>
<td><strong>ShowDateMode</strong></td>
<td>The show date mode</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0 – Current Date</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 – Prior to current date</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 – Specified date</td>
<td></td>
</tr>
<tr>
<td><strong>PriorDateOffset</strong></td>
<td>The current date offset value when ShowDateMode = 1</td>
<td>0</td>
</tr>
<tr>
<td><strong>PriorDateOffsetType</strong></td>
<td>The type of offset when ShowDateMode = 1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0 – Days</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 – Weeks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 – Months</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 – Years</td>
<td></td>
</tr>
<tr>
<td><strong>SpecifiedDate</strong></td>
<td>The specified date when ShowDateMode = 2</td>
<td>Current Date</td>
</tr>
<tr>
<td><strong>OverrideOffsetTime</strong></td>
<td>Do we want to override the offset time?</td>
<td>False</td>
</tr>
<tr>
<td><strong>ReportTime</strong></td>
<td>The report time when OverrideOffsetTime = true</td>
<td>00:00:00</td>
</tr>
<tr>
<td><strong>ShowTime</strong></td>
<td>Flag to indicate if the time selector should be displayed in the drop down calendar.</td>
<td>False</td>
</tr>
<tr>
<td><strong>CalendarDateMode</strong></td>
<td>Value to indicate which date is used to show what reports are available.</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0 – Starttime</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 – Endtime</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 – Range</td>
<td></td>
</tr>
<tr>
<td><strong>AvailableReportColor</strong></td>
<td>Color used on the calendar to indicate that a report is available</td>
<td>Green</td>
</tr>
<tr>
<td><strong>MultipleReportsColor</strong></td>
<td>Color used on the calendar to indicate that multiple reports are available</td>
<td>White</td>
</tr>
<tr>
<td><strong>ReportSelectorMode</strong></td>
<td>The mode for the report selector.</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0 – Browse</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 – View</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 – Run</td>
<td></td>
</tr>
<tr>
<td><strong>DifferentColorForMultipleReports</strong></td>
<td>Do we want to use a different color for multiple reports?</td>
<td>False</td>
</tr>
</tbody>
</table>
3 Three Types of Parameter

OEMenus has three ways of acquiring Parameter values. All View types that can be a Source for OEMenus can send constant value Parameters. Also, resolved string Aliases can be sent as Parameters by Views that use embedded string Aliases, and resolved column Aliases can be sent as Parameters by Views that display columnar data.

- Resolved String Alias values
- Resolved Column values
- Constant values

3.1 Resolved String Alias Parameters

Graphics and Trend View components that have embedded string Aliases can use the resolved values of these Aliases to send on as Parameters to a Target View.

3.1.1 Graphics View

When a Graphics View that is a Target of another View is opened, any Aliases are resolved and have a value. This value can then be passed to another View as a Parameter.

OEMenus needs to know the Target Alias that is going to be resolved by the value, the name of the source Alias, and the name of the dynamic object on which the source Alias exists.

3.1.2 Trend View

The Trend View also can be used as a Source for OEMenus once its own string Aliases have been resolved. OEMenus only needs to know the name of the Target Alias and the name of the Source Alias.

3.2 Resolved Column Alias Parameters

Views that return tabular data from the database can use that data to send as Parameters to a Target View in OEMenus.

3.2.1 Alarm View

Alarm View column values can be used as Parameter values, because when an Alarm View is opened, the column values are resolved immediately. You can use the values of the column Aliases to send as Parameters to other Target Views. For instance, use the name value of a selected alarm to define a <<NAME>> alias in the condition of an SQL View.

3.2.2 Alarm Ribbon (Banner) View

The Alarm Ribbon or Banner lists the sites that currently have alarms. It can be a Source for OEMenus. OEMenus requires the name of the Target Alias and also requires you to select a column from those available. The value of that column for the Site selected on the Alarm Ribbon in runtime mode will be passed as a Parameter to the Target View. The columns available are from the plantarea table.
3.2.3 SQL View

When an SQL View is run the query returns values. The column values can then be sent as Parameters to a Target View. When a user selects a single object from those on display in the SQL View in runtime, the value of any of the columns of this selected object can be sent as a Parameter to the Target View.

3.2.4 Notes View

A Note selected from the Notes View window has resolved database column values from the notes table that identify the selected Note. These values can be used as Parameters to send to a Target View.

3.3 Constant Values

All Views that can be a Source for an OEMenu allow the user to send constant values as Parameters to a Target View. OEMenus requires the name of the Target Alias and the value to send. The user types the Parameter value directly into a text field.

4 OEMenus View by View

This section details how each OEView component can be used with OEMenus. The table below gives the component name, whether or not it can be a Source for OEMenus, whether it can be a Target for OEMenus, its available Parameter types, and its native Alias type.

<table>
<thead>
<tr>
<th>Component</th>
<th>Source?</th>
<th>Target?</th>
<th>Available Parameter Type</th>
<th>Native Alias Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEDesktop</td>
<td>Yes</td>
<td>No</td>
<td>Constant value supplied in configure mode</td>
<td>None</td>
</tr>
<tr>
<td>Alarm View</td>
<td>Yes</td>
<td>Yes</td>
<td>Column value of object selected in runtime mode, or Constant value supplied in configure mode</td>
<td>Class Aliases, which equate to AlarmSummary fields. Filtering must be enabled.</td>
</tr>
<tr>
<td>Alarm Banner</td>
<td>Yes</td>
<td>No</td>
<td>Attribute values of Site selected in runtime mode, or Constant value supplied in configure mode</td>
<td>None</td>
</tr>
<tr>
<td>Alarm Printer</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>SQL View</td>
<td>Yes</td>
<td>Yes</td>
<td>Column value of object selected in runtime mode, or Constant value supplied in configure mode</td>
<td>String Alias - defined in query Condition</td>
</tr>
<tr>
<td>Signal View</td>
<td>No</td>
<td>Yes</td>
<td>None</td>
<td>Class Aliases</td>
</tr>
<tr>
<td>Graphics View</td>
<td>Yes</td>
<td>Yes</td>
<td>Resolved</td>
<td>String Aliases embedded</td>
</tr>
</tbody>
</table>
### 5 Accessing OEMenu Editor

Not all Views provide access to the OEMenu Editor, because not all Views can be a Source for OEMenus. Below is a list of the Views that can be a Source for OEMenus, and a description of how the Menu Editor can be accessed from that component.

#### 5.1 View Components

**5.1.1 Alarm Banner View**

Place the Alarm Banner into Configuration mode and then select the OE Menus: [Create..] button on the General Property Configuration page.

**5.1.2 Alarm View**

Place the Alarm View into Configuration mode and then select the OE Menus: [Create..] button on the General Property Configuration page.

**5.1.3 OE Notes View**

Place the Notes View into Configuration mode and then select the OE Menus: [Create..] button on the General Property Configuration page.

**5.1.4 OE Trend View**

Place the Trend View into Configuration mode and then select the OE Menus: [Create..] button on the General Property Configuration page.
Other View Components access the OEMenu Editor differently:

5.1.5 OE SQL View

Files used by the SQL View, which access the OEMenu Editor, are configured within the Database Object Viewer. To access the Menu Editor from within the Database Object Viewer, the user may either select the Options/Custom Data String menu or the Menu Editor icon from the toolbar.

5.1.6 OE Graphics View

Place the OE Graphics window into Configure mode. To access the OEMenu Editor:

1. Select a 'Pick' action property page;
2. Select the Custom Command option from the Action List;
3. Select the [Custom ...] button at the bottom of the 'Pick' action property page.

5.2 OEDesktop

Select the Desktop/Customize... menu option. The Menu tab of the OEDesktop Property Pages opens by default. Selecting 'New' opens the OEMenu Editor dialog.
6 Menu Editor Dialog

The Menu Editor dialog enables you to configure Custom menus for OpenEnterprise Views. The O EDesktop also supports OEMenus on its menu bar.

This pane displays the configured Custom menu hierarchy (as icons) within a tree structure, representing:

1. Command items (actionable menu items)
2. Group items (sub menu labels)
3. Separators (a line between sections of a menu)

6.1 Reordering Menu Items
Menu items may be reordered by selecting them with the left mouse button, moving them to the required position in the hierarchy, and releasing the button.

7 Menu Commands

These are the basic operations for working with Menu Commands.
1. Creating Menus
2. Renaming Menus
3. Copying Menus
4. Pasting Menus
5. Deleting Menus

### 7.1 Creating Menus

When the OEMenu Editor is first invoked, it has no menu items configured. To begin configuring menu items the user must first right click on the Menu icon at the top of the Pop-up Menu hierarchy list and select the ‘New Command’ option, as shown:

![The new Menu Command added.](image1)

### 7.2 Renaming Menus

To rename a Menu Command right click on it and select ‘Rename’ from the context menu, as shown below:

![The new Menu Command added.](image2)
The cursor will be placed inside the new Menu Command ready to be renamed.

7.3 Copying Menus

A Menu Command can be copied and pasted elsewhere in the Pop-up menu hierarchy list. This is often desirable, as copied Menu Commands retain their configuration details. Select the Menu Command to be copied, right click and then select the 'Copy' option as shown below:-
7.4 Pasting Menus

To paste a copied Menu Command into the Menu Hierarchy List select the Menu Group where the Menu Command is to be pasted, right click and select the ‘Paste’ option as shown below. The copied Menu Command will be pasted in at the bottom of the selected group.

7.5 Deleting Menus

To delete a Menu Command select it, right click and select the ‘Delete’ option from the context menu as shown below:-

8 Menu Separators

Separators provide a separator bar between menu items. To create a Separator bar, select a Group, right click and then select the ‘Separator’ item from the context menu as shown below:-
9 Menu Groups

Menu Groups are sub-menus which descend from the parent menu, having their own group of Menu Commands. They provide a mechanism for organizing Menu Commands into groups.

9.1 Creating Menu Groups

1. Copying Menu Groups
2. Pasting Menu Groups
3. Invoke All Menu Group Option

9.2 Create Menu Groups

Select an existing Group (including the top 'Menu' group), then right click and select 'New Group' from the context menu. the Menu Editor places a New Group heading within the menu item list.
Example of a new Group

9.3 Copy Menu Groups

A Menu Group with all its Menu Commands and their configuration details may be copied for pasting elsewhere in the Menu Hierarchy. Select the Group, right click and select the 'Copy' option as shown below:
9.4 Paste Menu Groups

To paste a copied Menu Group elsewhere within the Menu Hierarchy list, select the Group under which the new Group should be pasted, right click and then select the 'Paste' option. The new Group will be pasted under the selected Group as shown below:-

![Menu Editor Diagram]

9.5 Invoke All Menu Group Option

When a Group object is selected from the Menu Hierarchy Pane, the 'Command' section of the dialog changes to the 'Group' section, providing the option to make the Group into an 'Invoke All Submenu Items' Group.

![Menu Editor Diagram with Invoke All Submenu Items option]

9.5.1 Group Color Change

When the 'Invoke All Submenu Items' option is checked, the Group's color changes whilst in configure mode to white.

9.5.1.1 Runtime

When the OEMenu is viewed in Runtime mode, instead of appearing as a Group:
it will appear as if it were a normal menu command:-

9.5.2 Invoke All Submenu Items

All actions, (i.e. submenu items), defined below that Group will be invoked through a single user action. By selecting this Group menu item, all submenu items will automatically be invoked.

If an OEMenus Group is configured in this way, then the submenu items below the Group will never be displayed in runtime. However, they will still be available in configuration mode, thus allowing changes in the configuration of those submenu items to be applied.

It will be possible to cascade Groups to use this functionality, such that sub Groups of a Group for which Invoke All Submenu Items is configured, can themselves be configured to Invoke All Submenu Items.

The failure of any submenu action will not prevent other submenu items defined within the Group from being invoked.

10 Direct Invoke

This option applies when a single OEMenus Custom Context menu Command is configured on a Pick object within an OpenEnterprise Graphics View display:-

When the option is checked, as shown in the image above, the actual menu command will not be seen in runtime, but the menu will be immediately invoked when the user clicks on the object that contains the Pick object. This gives the impression that the user has clicked on a command button.
However, if there is more than one menu command configured, the Direct Invoke option, though selected, is overridden...

...and the menu commands will become available in runtime when the user selects the Pick object with the Custom menu on it:-

11 Insert Custom Group Menu Before Parent Menu

Commands configured on a Custom menu appear under a Custom Group menu on the Views parent context menu. If this box is checked, the Custom Group menu will appear above the commands of the parent context menu in Run-Time mode. Unchecked means the Custom Group menu will appear after all the commands of the parent context menu. An example of a Custom Menu inserted before the parent menu is shown below.
11.1 Removing the Custom Group Menu

The Custom sub-menu can be overridden, causing the Custom menu items to appear as part of the normal OEView component's context menu, and not under the Custom sub-group. This is achieved by un-checking the 'Use Sub Menu' box found on the General property page of the OEView, as shown in the image below.

If the 'Insert Before Parent Menu' is left checked on the Custom menu configuration, like so...

...this will be the result:-
12 Target

The "Target" list allows the user to select the target file type on which the OEMenus action will be performed.

There are four categories of Target applications:

1. View components.
2. OE Control Display
3. Data Server.
4. Windows applications.

12.1 Target - Views

View components are designed to be opened within the OEDesktop container window on Workstations as part of a configured SCADA application. The list below uses the names displayed within the Target list and explains briefly what each component does.
## Target Name | Explanation
--- | ---
Bristol OpenEnterprise Display | Loads a Graphics application instance into the designated window within the OEDesktop.
OE Alarm Printer View | Loads an Alarm Printer ActiveX Control into the designated window within the OEDesktop.
OE Alarm Ribbon | Loads an Alarm Ribbon ActiveX Control into the designated window within the OEDesktop.
OE Alarm View | Loads an Alarm Client ActiveX control into the designated window within the OEDesktop.
OE Desktop | Loads a different configured OEDesktop. This takes the place of the currently loaded OEDesktop. The only Action available will be Load file. This Target option is not available if OEGraphics is the source application.
OE Notes View | Loads a Notes Client ActiveX control into the designated window within the OEDesktop.
OE Signal View | Loads a Signal View ActiveX Control into the designated window within the OEDesktop.
OE SQL View | Loads a SQL Viewer ActiveX control into the designated window within the OEDesktop.
OE Trend View | Loads a Trend Client ActiveX control into the designated window within the OEDesktop.
OE Web View | Loads a Web Client ActiveX control into the designated window within the OEDesktop.
OE Report Selector | Loads a Report Selector .NET control into the designated window within the OEDesktop.

### 12.2 Target - OE Control Display
The OE Control Display is a container that is able to hold any ActiveX control. It must be used when using Multiple OEDesktops to load OEGraphics views. It also enables the user to load any registered ActiveX™ control (i.e. the Calendar control) into a window within the OEDesktop.
The OE Control Display must be launched within an OEDesktop instance, and saved as a file with an OEX extension before it can be used as a Target for an OEMenu. Providing the OE Control Display contains an OpenEnterprise View, the OE Control Display can be used as a Target file which accepts parameters from an OEMenu action.

12.3 Target - Data Server

The Data Server option launches the Bristol OPC Client, which provides synchronous read and write access to database attribute values. It must be configured using the Database Update configuration dialog, opened by using the [Configure] button on the Menu Editor Dialog.

12.4 Target - Windows Applications

The 'Windows application' option within the Target list provides the ability to launch any executable (.BAT, .COM or .EXE) Windows file. When this option is chosen as a Target file type, the only action available is Load File. The resulting application is not under the direct control of OEDesktop, and opens in a window that is not confined to the OEDesktop.

13 Action

The "Action" box on the OEMenu Editor Dialog allows the user to define the specific action to be performed on the component selected from the target box. The entries available within this combo box are dependent upon the Source component, which is hosting the OEMenu, and the current selection from the "Target" combo box.
13.1.1 Standard Actions Available

All standard View components support 'Load File' and 'Load File with parameters' actions.

13.1.2 Extra Actions Available

In addition, OEMenus created within the OEGraphics application, which use the Trend Component as a Target application, support a 'Load File with Tag List' action.

13.1.3 Single Action Only Available

The Data Server and Windows Application Targets have single dedicated actions of 'Database Update' and 'Launch Application' respectively.

14 [Enable/Disable] Button

This functionality provides the ability to enable or disable Custom Menus based on the value of pre-defined condition. For instance, if an alarm is already acknowledged then an OEMenu item to acknowledge an alarm could be disabled.

Use of the Enable/Disable dialog box is slightly different if the source application has parameters as aliases, rather than columns. The dialog is again different for the two components that use parameters for aliases (OEGraphic View and Trend View).

Important Note: It is essential that the Bristol OPC Server be running and connected to any databases from which attribute information is to be obtained before attempting to evaluate any conditions. If this is not the case then any reads on that database will fail, resulting in the error Condition State being employed for the menu item(s) in question.

14.1 Tabular Data Type Views

This dialog enables you to configure conditions for which the custom menu item will be disabled when the source component is a View which receives data directly from specific tables in the database. These Views are - Alarm View, Alarm Banner, Alarm Printer, Notes View and SQL View
14.1.1 Data Source

The "Data Source" edit field is used to define the database tag against which the condition will be evaluated.

This must be a full data access OPC tag definition, but can contain one or more column or alias definitions (depending on the Source View type), which will be resolved from the Source View when the action is invoked.
This field is a drag & drop target and hence tags can be dragged directly from the Database Explorer if required.

14.1.2 Enable Menu When Condition Occurs

When checked, the OEMenu item is enabled when the condition defined in the Condition section is True.

14.1.3 Enable Menu When Condition Generates an Error

When checked, the OEMenu item is enabled if the condition is False or if any error occurs when evaluating the condition. The types of failure that may occur include unresolved aliases, invalid tags, and incompatible data types to perform the comparison. (NOTE: No indication of the error condition is available to the user.)

14.1.4 Conditions

This section allows the user to define conditions that will enable or disable the OEMenu item. The conditions are selected by means of radio buttons, which makes them mutually exclusive.

The condition radio buttons define the type of condition to be evaluated. The radio buttons themselves can be greyed out depending on the data type of the OPC data access tag defined as the "Data Source".

14.1.5 Equals

This condition may be applied to any data access tag. The condition is True if the value of the OPC tag in the Data Source field is equal to the value entered into the Value 1 field.

14.1.6 Greater Than

This condition may be applied to float or integer type data access tags. If selected, the condition is True if the Data Source value is greater than the value in the Value 1 field. The Value 2 field will be disabled.

14.1.7 Less Than

This condition may be applied to float or integer type data access tags. The condition is True if the Data Source value is less than the value specified in the Value 1 field. The Value 2 field is disabled.

14.1.8 Range

This condition may be applied to float or integer type data access tags. If selected, the Value 2 field becomes enabled. The condition is True if the value of the Data Source falls between the values set in the Value 1 and Value 2 fields.

14.1.9 Value 1

The "Value 1" edit field contains the value against which the data source tag will be evaluated, for "Equals", "Greater Than", and "Less Than" conditions. It is also used as either the upper or lower range value for the "Range" condition.

This may be a constant value, or a full OPC Data Access tag, (with or without aliases).

This field is greyed out if no Data Source value is defined.

The field is a drag & drop target and hence tags can be dragged directly from the Database Explorer if required.
14.1.10 Value 2

The "Value 2" field is only available when a "Range" condition is defined, and is used to define the upper or lower range value for the condition.

This may be a constant value, or a full OPC Data Access tag, (with or without aliases).

This field is a drag & drop target and hence tags can be dragged directly from the Database Explorer if required.

The range condition has been implemented so that the "Value 1" and "Value 2" values are compared prior to the condition being evaluated. This ensures that the larger of the two values is always treated as the upper range, and the lesser the lower range.

14.1.11 Available Columns

This is the list of columns that are available for use as aliases from the Source OEView. They can be inserted into the Data Source tag at the appropriate place by using the Auto Insert option and the [Add Column] button or by dragging and dropping an added alias from the Currently Available List onto the Data Source field.

14.1.12 Currently Available List

When a new alias or column is added, it appears within this list. It can then be dragged and dropped from here into any field containing a full data access OPC tag definition.

14.1.13 Auto Insert Alias

Auto inserting of aliases is used on enable/disable menu dialogs, advanced window naming dialogs and on database update dialogs. For enable/disable and database update dialogs, aliases are inserted into the Data Source string. For the advanced window naming dialogs, the aliases are inserted into a text field.

If checked, every alias that is added through the [Add Alias] button or [Add Column] button will be automatically added to the string in the Data Source or text field at the cursor position.

If unchecked, aliases will be added to the Currently Available list of aliases, but not to the text or Data Source field. From there the user can drag and drop any alias into the Data Source field in any order desired.

14.1.14 Add Column Button

When this button is selected the currently selected column within the 'Available Columns' list will be copied to the 'Currently Available' list. Once in the 'Currently Available' list, the aliases can be dragged and dropped to any point within the Data Source or Caption Text field, depending on the type of dialog.

14.1.15 Remove Button

An alias selected from the Currently Available list of aliases may be removed by selecting the [Remove] button.

14.1.16 Use This Configuration

If checked, then the OEMenu uses the configuration defined on this dialog. If not checked, the configuration on this dialog is not implemented.
14.2 Tag Data Type - Graphics View

This dialog enables you to configure conditions for which the custom menu item will be disabled when the source component is OEGraphics.

![Enable menu according to database value](image)

14.2.1 Data Source

The "Data Source" edit field is used to define the database tag against which the condition will be evaluated.

This must be a full data access OPC tag definition, but can contain one or more column or alias definitions (depending on the Source View type), which will be resolved from the Source View when the action is invoked.

This field is a drag & drop target and hence tags can be dragged directly from the Database Explorer if required.

14.2.2 Enable Menu When Condition Occurs

When checked, the OEMenu item is enabled when the condition defined in the Condition section is True.
14.2.3 Enable Menu When Condition Generates an Error

When checked, the OEMenu item is enabled if the condition is False or if any error occurs when evaluating the condition. The types of failure that may occur include unresolved aliases, invalid tags, and incompatible data types to perform the comparison. (NOTE: No indication of the error condition is available to the user.)

14.2.4 Conditions

This section allows the user to define conditions that will enable or disable the OEMenu item. The conditions are selected by means of radio buttons, which makes them mutually exclusive.

The condition radio buttons define the type of condition to be evaluated. The radio buttons themselves can be greyed out depending on the data type of the OPC data access tag defined as the "Data Source".

14.2.5 Greater Than

This condition may be applied to float or integer type data access tags. If selected, the condition is True if the Data Source value is greater than the value in the Value 1 field. The Value 2 field will be disabled.

14.2.6 Less Than

This condition may be applied to float or integer type data access tags. The condition is True if the Data Source value is less than the value specified in the Value 1 field. The Value 2 field is disabled.

14.2.7 Range

This condition may be applied to float or integer type data access tags. If selected, the Value 2 field becomes enabled. The condition is True if the value of the Data Source falls between the values set in the Value 1 and Value 2 fields.

14.2.8 Value 1

The "Value 1" edit field contains the value against which the data source tag will be evaluated, for "Equals", "Greater Than", and "Less Than" conditions. It is also used as either the upper or lower range value for the "Range" condition.

This may be a constant value, or a full OPC Data Access tag, (with or without aliases).

This field is greyed out if no Data Source value is defined.

The field is a drag & drop target and hence tags can be dragged directly from the Database Explorer if required.

14.2.9 Value 2

The "Value 2" field is only available when a "Range" condition is defined, and is used to define the upper or lower range value for the condition.

This may be a constant value, or a full OPC Data Access tag, (with or without aliases).

This field is a drag & drop target and hence tags can be dragged directly from the Database Explorer if required.
The range condition has been implemented so that the "Value 1" and "Value 2" values are compared prior to the condition being evaluated. This ensures that the larger of the two values is always treated as the upper range, and the lesser the lower range.

### 14.2.10 Currently Available List

When a new alias or column is added, it appears within this list. It can then be dragged and dropped from here into any field containing a full data access OPC tag definition.

### 14.2.11 Auto Insert Alias

Auto inserting of aliases is used on enable/disable menu dialogs, advanced window naming dialogs and on database update dialogs. For enable/disable and database update dialogs, aliases are inserted into the Data Source string. For the advanced window naming dialogs, the aliases are inserted into a text field.

If checked, every alias that is added through the [Add Alias] button or [Add Column] button will be automatically added to the string in the Data Source or text field at the cursor position.

If unchecked, aliases will be added to the Currently Available list of aliases, but not to the text or Data Source field. From there the user can drag and drop any alias into the Data Source field in any order desired.

### 14.2.12 Add Alias Button

When the [Add Alias] button is selected the 'New Alias' or 'Define Alias' dialog is displayed, depending on whether the source view is a Trend or Graphics view.

#### 14.2.12.1 New Alias Dialog (Trend View source)

There is only one field on this dialog, which is the name of the alias.

![New Alias Dialog](image)

#### 14.2.12.2 Alias Definition Dialog (Graphics View source)

The Graphics View dialog also has the Object field.
14.2.12.3 Alias Name

The new alias is typed into the Name field. There is no need to add the double chevrons ('<<' and '>>'), since these are added automatically, as indicated by the double chevrons on the dialog. When the OK button is selected the alias is added to the Currently Available list of aliases.

14.2.12.4 Alias Object

When using OEMenus to pass alias values as parameters in a Graphics display, the object on which the alias appears needs to be given a name so that OEMenus can find and pass the correct alias value to the target View.

The same alias name can be repeated, but can be given different values depending on the object that it appears on.

14.2.13 Remove Button

An alias selected from the Currently Available list of aliases may be removed by selecting the [Remove] button.

14.2.14 Use This Configuration

If checked, then the OEMenu uses the configuration defined on this dialog. If not checked, the configuration on this dialog is not implemented.

14.3 Tag Data Type - Trend View

This dialog enables you to configure conditions for which the custom menu item will be disabled when the source component is Trend View.
This text field needs to contain a valid OPC data access tag. The easiest way to do this initially is to drag-drop a tag from the Database Object Viewer.

- **Drag-dropping an OPC tag**

Aliases or column definitions can be included in the data access tag string. There are two ways to place column aliases into the OPC tag in Data Source field:

1. **Auto Insert method**
2. Drag-drop method

14.3.1 Enable Menu When Condition Occurs

When checked, the OEMenu item is enabled when the condition defined in the Condition section is True.

14.3.2 Enable Menu When Condition Generates an Error

When checked, the OEMenu item is enabled if the condition is False or if any error occurs when evaluating the condition. The types of failure that may occur include unresolved aliases, invalid tags, and incompatible data types to perform the comparison. (NOTE: No indication of the error condition is available to the user.)

14.3.3 Conditions

This section allows the user to define conditions that will enable or disable the OEMenu item. The conditions are selected by means of radio buttons, which makes them mutually exclusive.

The condition radio buttons define the type of condition to be evaluated. The radio buttons themselves can be greyed out depending on the data type of the OPC data access tag defined as the "Data Source".

14.3.4 Equals

This condition may be applied to any data access tag. The condition is True if the value of the OPC tag in the Data Source field is equal to the value entered into the Value 1 field.

14.3.5 Greater Than

This condition may be applied to float or integer type data access tags. If selected, the condition is True if the Data Source value is greater than the value in the Value 1 field. The Value 2 field will be disabled.

14.3.6 Less Than

This condition may be applied to float or integer type data access tags. The condition is True if the Data Source value is less than the value specified in the Value 1 field. The Value 2 field is disabled.

14.3.7 Range

This condition may be applied to float or integer type data access tags. If selected, the Value 2 field becomes enabled. The condition is True if the value of the Data Source falls between the values set in the Value 1 and Value 2 fields.

14.3.8 Value 1

The "Value 1" edit field contains the value against which the data source tag will be evaluated, for "Equals", "Greater Than", and "Less Than" conditions. It is also used as either the upper or lower range value for the "Range" condition.

This may be a constant value, or a full OPC Data Access tag, (with or without aliases).

This field is greyed out if no Data Source value is defined.

The field is a drag & drop target and hence tags can be dragged directly from the Database Explorer if required.
14.3.9 Value 2

The "Value 2" field is only available when a "Range" condition is defined, and is used to define the upper or lower range value for the condition.

This may be a constant value, or a full OPC Data Access tag, (with or without aliases).

This field is a drag & drop target and hence tags can be dragged directly from the Database Explorer if required.

The range condition has been implemented so that the "Value 1" and "Value 2" values are compared prior to the condition being evaluated. This ensures that the larger of the two values is always treated as the upper range, and the lesser the lower range.

14.3.10 Auto Insert Alias

Auto inserting of aliases is used on enable/disable menu dialogs, advanced window naming dialogs and on database update dialogs. For enable/disable and database update dialogs, aliases are inserted into the Data Source string. For the advanced window naming dialogs, the aliases are inserted into a text field.

If checked, every alias that is added through the [Add Alias] button or [Add Column] button will be automatically added to the string in the Data Source or text field at the cursor position.

If unchecked, aliases will be added to the Currently Available list of aliases, but not to the text or Data Source field. From there the user can drag and drop any alias into the Data Source field in any order desired.

14.3.11 Add Alias Button

When the [Add Alias] button is selected the 'New Alias' or 'Define Alias' dialog is displayed, depending on whether the source view is a Trend or Graphics view.

14.3.11.1 New Alias Dialog (Trend View source)

There is only one field on this dialog, which is the name of the alias.

14.3.11.2 Alias Definition Dialog (Graphics View source)

The Graphics View dialog also has the Object field.
14.3.11.3 Alias Name

The new alias is typed into the Name field. There is no need to add the double chevrons ("<<" and ">>"), since these are added automatically, as indicated by the double chevrons on the dialog. When the OK button is selected the alias is added to the Currently Available list of aliases.

14.3.11.4 Alias Object

When using OEMenus to pass alias values as parameters in a Graphics display, the object on which the alias appears needs to be given a name so that OEMenus can find and pass the correct alias value to the target View.

The same alias name can be repeated, but can be given different values depending on the object that it appears on.

14.3.12 Currently Available List

When a new alias or column is added, it appears within this list. It can then be dragged and dropped from here into any field containing a full data access OPC tag definition.

14.3.13 Remove Button

An alias selected from the Currently Available list of aliases may be removed by selecting the [Remove] button.

14.3.14 Use This Configuration

If checked, then the OEMenu uses the configuration defined on this dialog. If not checked, the configuration on this dialog is not implemented.

15 [Configure] Button
The [Configure] button opens the Parameter Configuration Dialog. This Dialog varies according to what kind of data (tabular or point based data) the Source and Target Views display. The Source and Target Views do not have to display the same kind of data in order to use OEMenus functionality. The Parameter Configuration Dialog enables you to configure Parameters which are resolved on the Source View, or to define a string as a Parameter, which you are going to send to the Target View, and to match these Parameters with Columns or Aliases on the Target View. Each resolved Parameter on the Source View must match up with and resolve the value of a specific Column or Alias on the Target View. It is best to think of Parameters as being strings passed from the Source View, and Aliases or Columns as being place holders for these strings on the Target View.

15.1 Configuration Dialogs

The exact dialog called by this button depends on the Source View type, and the Action selected from the Action List.

15.2 Configuring Different Actions

The Actions that can be selected for a Menu Command differ according to the Source and Target View types. When the [Configure] button is selected from the main Menu Editor Dialog, the options on the Menu Configuration dialog will be different according to the Source View type and the Target and Action selections of the created Menu Command. These options are listed below:-

1. Load a File
2. Load a File Passing a Parameter
3. Database Update
4. Launch a Windows Application

15.2.1 Load File Only

If the Target View was one of the OpenEnterprise Views, there are two versions of the Configuration dialog for this type of Action, depending on whether the Source View displays Tabular or Tag type data.

1. Load File - Tabular Data View
2. Load File - Tag Data View

To see what type of data each of the Views displays, see the Views and their Data Types page.

15.2.1.1 Load File - Tabular View Source

If the Action chosen is ‘Load File’, this is the dialog that is displayed when the source View is not a Graphics View file.
15.2.1.1.1 File Name Field / List General

For all View components except OEGraphics and OETrend Views, the Load File configuration dialog box provides a drop-down list of columns from the source table, one of which may be used to indicate which file to load. Another method of specifying the file to load is to use the file browse button [...].

Using the Drop-down Column List

The columns supported by OEViews which obtain their values from a table within the OEDatabase are available from the File list box.

When the OEMenu item is invoked, (during Run-Time operation), the OE Message Bus queries the source application for the value of the specified attribute for the currently selected row. This will define the display to be launched.

NOTE: The ability to source a file name from an attribute is not available from the Trend or OEGraphics components. This is because they do not source their data directly from the Database, but from the Bristol OPC Server, and so the concept of a row does not exist.

15.2.1.1.2 File Browse Button

Selecting the browse button [...] causes the File Open dialog to be opened, from which the user can select the file to load.
Once a file is chosen, the file name and its path are entered automatically into the correct fields.

### 15.2.1.1.3 File Path Field

When the browse button is used to locate a file to be loaded by the OEMenu Command, its path is automatically placed in this field. If known to the user, the file name and path fields can be typed in manually.

### 15.2.1.4 Always Reload This File

If this box is checked then the window containing the target OEView component will always be reloaded afresh with the file specified in the File edit field when this OEMenu option is selected. If not checked, then the window will not be reloaded with the specified file. However, any new alias values will be passed into the window when the OEMenu is selected.

### 15.2.1.2 Load File - Tag Data Source

If the Action chosen is 'Load File', this is the dialog that is displayed when Graphics View is the source component.
15.2.1.2.1 File Name OEGraphics

The Graphics View component allows files to be specified with the file browse button […], or by an alias on the Source component.

Using an Alias

In this case the display name will be obtained at Run-Time, from the Graphics View display from which the 'Load File' action was launched.

In the example below, the alias <<SIGNAL1>> should be resolved from an OE Graphics dynamic object named 'signalPPT1' on the source component. This resolved alias should be the name of a Graphics View file to be found within the directory named in the 'Path' field.

If the Object field is left blank, then the alias will be resolved from the visible object on which the action is defined.

15.2.1.2.2 File Path Field

When the browse button is used to locate a file to be loaded by the OEMenu Command, it's path is automatically placed in this field. If known to the user, the file name and path fields can be typed in manually.

15.2.1.2.3 Object Field

This field becomes enabled if there is an alias name in the File edit field. It should contain the name of the OE Graphic object from the source OE Graphic View.

15.2.1.2.4 File Browse Button

Selecting the browse button […] causes the File Open dialog to be opened, from which the user can select the file to load.
Once a file is chosen, the file name and its path are entered automatically into the correct fields.

15.2.1.2.5 Always Reload This File

If this box is checked then the window containing the target OEView component will always be reloaded afresh with the file specified in the File edit field when this OEMenu option is selected. If not checked, then the window will not be reloaded with the specified file. However, any new alias values will be passed into the window when the OEMenu is selected.

15.2.2 Load File with Parameters

This option loads an OpenEnterprise View into the OEDesktop and passes Parameters from the Source View to the Target View file, which define the data that is displayed by the loaded View. The configuration options for this action differ depending on the type of data that can be passed by the Source View:

1. Alias Type Parameters
2. Column Type Parameters

To see what type of data each of the Views displays, see the Views and their Data Types page.

15.2.2.1 Load File with Alias Type Parameters

Whenever you are creating a Custom menu on a Graphics or Trend View, you can send constant values or resolved aliases as string Parameters when you load a file. These are the three options available when configuring OEMenus on these Views.

1. Graphics View Source with Parameters
2. Graphics View Source with Data Access Tags
3. Trend View Source with Parameters
15.2.2.1.1 Graphics View Source with Parameters

With Graphics View as the source component for an OEMenu, parameters are in the form of aliases, which are contained within objects on the Graphics View display. Therefore, Aliases must be identified not only by the Alias name, but also by the object name from which they come.

15.2.2.1.1.1 File Name Configuration

This section from the 'Load File with Parameters' dialog enables the user to configure the file to load when the OEMenu Command is selected. It is identical to the 'File Load' dialog, depending on the source OEView component. Select the correct link to this dialog from the 'Related Topics' links below.

15.2.2.1.1.2 Parameters List
This list displays the list of parameters that have been configured for passing to the target file. The parameter attributes within the list are different depending on what the source View component is.

15.2.2.1.1.3 Parameter Name
This column shows the name of the alias or column within the Target file which will be resolved to the value of the alias, column or constant being sent from this file (the Source).

15.2.2.1.1.4 Parameter Definition
This column displays the name of the alias, database attribute or constant string value which is being sent to the Target file to resolve the alias or column which is defined in the ‘Parameter Name’ column.

15.2.2.1.1.5 Object Name
This is the name of the dynamic object on the Source display which contains the Named Alias.

15.2.2.1.1.6 Target Column or Alias to Resolve
This text field defines the alias or column name to be resolved within the target OE Component.

15.2.2.1.1.7 Alias Parameter Definition Type
Using an OEGraphics View as the Source for an OEMenu command means that a parameter can be defined as either an alias or as a constant value. Since OEGraphics View accesses the OEDatabase through the Bristol OPC Server, a parameter definition cannot be defined as a column within the database.

When 'Alias' is checked, the Alias Name field appears. Underneath it the Object Name field becomes enabled. The double chevrons are added automatically when the aliases are added to the Parameters list. It is assumed that if an alias is defined within this dialog box, then a matching alias is also available from the source OE Graphics display.

15.2.2.1.1.8 Constant Parameter Definition Type
When this button is checked the Constant Value field is enabled, and the Object Name field becomes disabled. The user types the constant value into the field. This value is passed directly to the named alias on the Target component.

15.2.2.1.1.9 Alias Name
This is the name of the alias that is being sent from the Source component to the Target component. There is no need to add the double chevrons.

15.2.2.1.1.10 Object Name Field
This is only relevant if the Parameter type is an alias. If 'Alias' is specified then the Object Name defines the dynamic object on the OEGraphics display which contains the alias. If the Object Name is undefined, then the visible object on which the action is defined is queried for the alias.

15.2.2.1.1.11 Configuration Add Button
When this button is selected, any new set of parameters which has been defined within the relevant text fields will be added to the Parameters List.

15.2.2.1.1.12 Configuration Update Button
When an existing Parameter from the Parameters List is selected, the Parameter Definition (i.e. the Alias Name / Constant value) or the Object Name (if OEGraphics is the source) may be changed and Updated using this button. If the Definition or Object Name is changed without selecting this button, then the change will not be saved.

Note:- The target alias cannot be updated.
15.2.2.1.13 Configuration Remove Alias Button
Selection of this button will delete the selected Parameter from the Parameter List.

15.2.2.1.2 Graphics View Source from Data Access Tags
This action is only available when configuring a Custom Menu from a dynamic object on a Graphics View that has multiple process points grouped together as a symbol, and where the Target is a Trend View.

This is the configuration dialog as it appears when the [Configure] button is selected from the Menu Editor.

![Load File from Data Access Tag(s)](image)

15.2.2.1.2.1 Multiple Process Points Grouped into a Symbol
In order to create a dynamic object on which you can configure a Custom OEMenu that uses this Action, you will need to group several Dynamic objects with OPC Tags together into a Symbol object. Ensure that the 'Default Pick' object is deleted from the individual dynamic objects that make up the symbol. Then create a dynamic 'Pick' object on the Symbol object. From the 'Action' drop-down menu on the dynamic 'Pick' object select the 'Custom Command' Action. Then click the [Custom] button on the Pick object to configure the Custom menu. Create a New Command in the Menu Editor, select 'OE Trend View' as the Target, then the Action list on the Menu Editor interface will contain the 'Load from Data Access Tags' option.

The "Load File from Data Access Tags" dialog enables OEMenus to present the user with a list of unique OPC Tags that are within the symbol object on which the Custom menu is configured.
When the desired Tag or Tags are selected by the user in runtime, the Trend opens with the Tags passed to it. For each Tag selected from the list, a new Pen is created with the passed Tags defining the Data Source for each Pen.

15.2.2.1.2.2 File Name Field OEGraphics as Source

The OEGraphics View component allows files to be specified with the file browse button or by an alias on the Source component.

Using an Alias

In this case the display name will be obtained at Run-Time, from the OE Graphics display from which the 'Load File from Data Access Tags' action was launched.

In the example below, the alias <<DISPLAY1>> would be resolved from an OE Graphics dynamic object named 'DisplaysObject' on the source component. This resolved alias should be the name of an OEGraphics View file to be found within the directory named in the 'Path' field.

If the Object field is left blank, then the alias will be resolved from the visible object on which the action is defined.

15.2.2.1.2.3 File Browse
Selecting the browse button causes the File Open dialog to be opened, from which the user can select the file to load.

Once a file is chosen, the file name and its path are entered automatically into the correct fields.

15.2.2.1.2.4 Display Tag List

When checked, a list box containing all tags associated with the OEGraphics visible object or symbol on which the OEMenu is configured will be displayed to the user. From this list box, the user can then select those tags to be trended.

In Runtime, when the user selects the OEMenu, the tag list below is presented before opening the Target Trend View. It displays the unique tags found on the source object or symbol. The user may select one or any combination of tags, which are then passed to the Target Trend.

If this option is not selected, then all tags are automatically passed onto the target Trend Component.
15.2.2.1.2.5  Show Warning if No Tags Found
If this box is checked, then a warning will be displayed if no tags are found on the OEGraphics object from which the OEMenu was selected.

15.2.2.2  Trend View Source with Parameters
Below is the Configuration dialog when the Trend View is the source for the OEMenu.

![Load file with parameters dialog]

15.2.2.2.1  File Name List - Trend View
Although the 'File' text field has an arrow to the right of it, no database columns will be displayed when the arrow is selected. The ability to source a file name from an attribute is not available from the Trend component because Trend View pens do not source their data directly from the database, but from the Bristol OPC Server or the Historical Data Access Server.
15.2.2.2 Alias Parameter Type - Trend Source

Using a Trend View as the Source for an OEMenu command means that a parameter can be defined as either an alias or as a constant value. Since Trend View accesses the database through the Bristol OPC Server, a parameter definition cannot be defined as a column within the database.

When 'Alias' is checked, the Alias Name field appears. The double chevrons are added automatically when the aliases are added to the Parameters list. If an alias is defined within this dialog box, then a matching alias must have been defined on one of the pens from the source Trend View.

15.2.2.3 Constant Parameter Type - OETrend Source

When this button is checked the Constant Value field is enabled. The user types the constant value into the field. This value is passed directly to the named alias or column on the Target component.

15.2.2.3 Load File with Column Type Parameters

Below is the Configuration Dialog for Views which retrieve data in tabular, rather than point based format.
15.2.2.3.1 File Name Field / List General

For all View components except OEGraphics and OETrend Views, the Load File configuration dialog box provides a drop-down list of columns from the source table, one of which may be used to indicate which file to load. Another method of specifying the file to load is to use the file browse button [...].

Using the Drop-down Column List

The columns supported by OEViews which obtain their values from a table within the OEDatabase are available from the File list box.

![File: Display, clienttype, condition, description, devicename]

When the OEMenu item is invoked, (during Run-Time operation), the OE Message Bus queries the source application for the value of the specified attribute for the currently selected row. This will define the display to be launched.

NOTE: The ability to source a file name from an attribute is not available from the Trend or OEGraphics components. This is because they do not source their data directly from the Database, but from the Bristol OPC Server, and so the concept of a row does not exist.

15.2.2.3.2 File Path Field

When the browse button is used to locate a file to be loaded by the OEMenu Command, its path is automatically placed in this field. If known to the user, the file name and path fields can be typed in manually.

15.2.2.3.3 Always Reload This File

If this box is checked then the window containing the target OEView component will always be reloaded afresh with the file specified in the File edit field when this OEMenu option is selected. If not checked, then the window will not be reloaded with the specified file. However, any new alias values will be passed into the window when the OEMenu is selected.

15.2.2.3.4 Parameter Name

This column shows the name of the alias or column within the Target file which will be resolved to the value of the alias, column or constant being sent from this file (the Source).

15.2.2.3.5 Parameter Definition

This column displays the name of the alias, database attribute or constant string value which is being sent to the Target file to resolve the alias or column which is defined in the 'Parameter Name' column.

15.2.2.3.6 Parameters List

This list displays the list of parameters that have been configured for passing to the target file. The parameter attributes within the list are different depending on what the source View component is.
15.2.3.7 Target Column or Alias to Resolve

This text field defines the alias or column name to be resolved within the target OE Component.

15.2.2.3.8 Parameter Value

The Parameter value field. This can be a constant value or a Column Alias. The value is passed directly to the named alias or column on the Target component.

15.2.2.3.9 Column Name

This list will be populated with the columns which are available to the OEView. Any available column may be selected to send as a parameter definition to the Target View.

15.2.2.3.10 Insert Alias Button

When one of the Columns listed in the 'Column Name' list is selected, it can be inserted into the 'Parameter Value' field by selecting this button. The Parameter is entered with ("||") markers at the beginning and end of the Column name. This marks it as a Column Parameter rather than a constant value. It will only be added to the actual Parameter List that will be sent to the Target View when the [Add] button is selected whilst the Parameter is in the 'Parameter Value' field, and the Target Alias is in the Target Alias text field.

15.2.2.3.11 Configuration Add Button

When this button is selected, any new set of parameters which has been defined within the relevant text fields will be added to the Parameters List.

15.2.2.3.12 Configuration Update Button

When an existing Parameter from the Parameters List is selected, the Parameter Definition (i.e. the Alias Name / Constant value) or the Object Name (if OEGraphics is the source) may be changed and Updated using this button. If the Definition or Object Name is changed without selecting this button, then the change will not be saved.

Note:- The target alias cannot be updated.

15.2.2.3.13 Configuration Remove Alias Button

Selection of this button will delete the selected Parameter from the Parameter List.

15.2.3 Database Update

The Database Update Action uses the Bristol OPC Server to update values in the database. Therefore it is essential that the OPC Server is started before any Views request data from it. The Configuration dialog is different, depending on the Source View :-

1. Column View Type Source

2. Graphics View Source

3. Trend View Source

To see what type of data each of the Views displays, see the Views and their Data Types page.
15.2.3.1 Column Type Source

This dialog is used when the Source component is a View which retrieves data in tabular form, rather than as OPC tags, and the Target View is 'Data Server'.

15.2.3.1.1 Data source General OEView

This text field needs to contain a valid OPC data access tag. The easiest way to do this initially is to drag-drop a tag from the Database Object Viewer.

- Drag-dropping an OPC tag
Aliases or column definitions can be included in the data access tag string. There are two ways to place column aliases into the OPC tag in Data Source field:-

1. Auto Insert method
2. Drag-drop method

15.2.3.1.2 Drag Drop Data Source Tag

You can drag-drop an OPC tag into the ‘Data source’ field on this dialog from the Database Object Viewer.

15.2.3.1.3 Drag Drop Column Alias

A column alias can be dragged and dropped from the Alias list into the Data Source field at the top of the dialog.

15.2.3.1.4 Description

This text field allows the user to define a textual description of the attribute to be updated. Aliases (Column or user created types with "<< ">>" delimiters) can also be used in this field. This is then displayed in the Run-Time dialog box, to provide the user with a more meaningful representation for the update to be performed.

15.2.3.1.5 Display Value

If this box is checked, the value of the OPC tag in the Data Source field will be displayed next to the OEMenu item as shown in the example below.

15.2.3.1.6 Read Only

When checked, this restricts the user to viewing the value only.

15.2.3.1.7 Use Runtime Dialog

If checked, then a dialog box is displayed when the menu item containing the attribute value is selected. This allows the user to specify the value to be written to the database attribute. The dialog box is of the following form:
If a description has been defined, then this will be displayed in the description text box. Otherwise, the full, (resolved) OPC data access tag will be displayed.

15.2.3.1.8 Default Value

If the "Use runtime dialog" option is not checked, then the user must provide a default value, (the edit control will be enabled automatically to allow this). This will define the value to be written to the database.

15.2.3.1.8.1 Graphics View Source

As well as updating database values directly, the Data Server can work in conjunction with the RunSQLScript table to run an SQL Script, when a Custom Pick Action is configured on an OEGraphics display.

15.2.3.1.8.2 How to use the RunSqlScript table

On the OEGraphics display, use the 'Custom' Pick Action, and create an OEMenu item that downloads a default value via the OPC Data Access Server. The DataSource of the Database Update must be an OPC Tag that updates the SQLScript attribute of the RunSQLScript table. Deselect the Read Only and Use Runtime Dialog boxes on the Database Update dialog. The Default Value will be the SQL statement you want to run. Do not enclose the whole statement in quotes, but the name of the object that is being updated must be enclosed within two SINGLE quotes - e.g., where name = 'TANKS:TANK3.LEVEL'. In order to make the button press behave like a normal button press, don't configure the action to generate a menu, instead check the 'direct invoke' check box, and this will be the default (and only) action on the menu, so it will occur whenever the button is released and pressed - it will appear to the operator exactly as if it were a 'download value' pick action. Another advantage of this approach is that the security system can be used to control this particular pick action using the custom tokens, so you can limit which users can do it, without requiring database security.

15.2.3.1.9 Available Columns

This list box details the columns available to the OEView for using as aliases in the OPC tag which is placed into the Data Source field.

15.2.3.1.10 Currently Available List

When a new alias or column is added, it appears within this list. It can then be dragged and dropped from here into any field containing a full data access OPC tag definition.

15.2.3.1.11 Remove

Selecting this button will remove the currently selected alias definition from the Currently Available list.
15.2.3.2 Graphics View Source

This dialog is used when the source View is a Graphics View display. It enables aliases to be resolved from the dynamic object in which they are found.

15.2.3.2.1 Data Source OEGraphics View

This text field needs to contain a valid OPC data access tag. This is the value that will be updated. The easiest way to do this initially is to drag-drop a tag from the Database Object Viewer.

- Drag-dropping an OPC tag

Aliases can be included in the data access tag string. There are two ways to place aliases into the OPC tag in Data Source field:-

1. Auto Insert method
2. Drag-drop method
15.2.3.2.2 Description

This text field allows the user to define a textual description of the attribute to be updated. Aliases (Column or user created types with "<<" ">" delimiters) can also be used in this field. This is then displayed in the Run-Time dialog box, to provide the user with a more meaningful representation for the update to be performed.

15.2.3.2.3 Display Value

If this box is checked, the value of the OPC tag in the Data Source field will be displayed next to the OEMenu item as shown in the example below.

15.2.3.2.4 Use Runtime Dialog

If checked, then a dialog box is displayed when the menu item containing the attribute value is selected. This allows the user to specify the value to be written to the database attribute. The dialog box is of the following form:

![Database update dialog box]

If a description has been defined, then this will be displayed in the description text box. Otherwise, the full, (resolved) OPC data access tag will be displayed.

15.2.3.2.5 Default Value

If the "Use runtime dialog" option is not checked, then the user must provide a default value, (the edit control will be enabled automatically to allow this). This will define the value to be written to the database.

15.2.3.2.5.1 Graphics View Source

As well as updating database values directly, the Data Server can work in conjunction with the RunSQLScript table to run an SQL Script, when a Custom Pick Action is configured on an OEGraphics display.

15.2.3.2.5.2 How to use the RunSqlScript table
On the OEGraphics display, use the ‘Custom’ Pick Action, and create an OEMenu item that downloads a default value via the OPC Data Access Server. The **DataSource** of the Database Update must be an OPC Tag that updates the **SQLScript** attribute of the **RunSQLScript** table. Deselect the **Read Only** and **Use Runtime Dialog** boxes on the Database Update dialog. The **Default Value** will be the SQL statement you want to run. Do not enclose the whole statement in quotes, but the name of the object that is being updated must be enclosed within two SINGLE quotes - e.g., *where name = ‘TANKS:TANK3.LEVEL.’* In order to make the button press behave like a normal button press, don't configure the action to generate a menu, instead check the 'direct invoke' check box, and this will be the default (and only) action on the menu, so it will occur whenever the button is released and pressed - it will appear to the operator exactly as if it were a 'download value' pick action. Another advantage of this approach is that the security system can be used to control this particular pick action using the custom tokens, so you can limit which users can do it, without requiring database security.

### 15.2.3.2.6 Read Only

When checked, this restricts the user to viewing the value only.

### 15.2.3.2.7 Currently Available List

When a new alias or column is added, it appears within this list. It can then be dragged and dropped from here into any field containing a full data access OPC tag definition.

### 15.2.3.2.8 Auto Insert Alias

Auto inserting of aliases is used on enable/disable menu dialogs, advanced window naming dialogs and on database update dialogs. For enable/disable and database update dialogs, aliases are inserted into the Data Source string. For the advanced window naming dialogs, the aliases are inserted into a text field.

If checked, every alias that is added through the [Add Alias] button or [Add Column] button will be automatically added to the string in the Data Source or text field at the cursor position.

If unchecked, aliases will be added to the Currently Available list of aliases, but not to the text or Data Source field. From there the user can drag and drop any alias into the Data Source field in any order desired.

### 15.2.3.2.9 Add Alias Button

When the [Add Alias] button is selected the 'New Alias' or 'Define Alias' dialog is displayed, depending on whether the source view is a Trend or Graphics view.

#### 15.2.3.2.9.1 New Alias Dialog (Trend View source)

There is only one field on this dialog, which is the name of the alias.

---

**New Alias**

Define the new alias. Note: that you do NOT need to specify the `<<>>` delimiters, as these are added for you automatically.

**Name:**

[Input Field]

[OK]  [Cancel]  [Help]

---

#### 15.2.3.2.9.2 Alias Definition Dialog (Graphics View source)
The Graphics View dialog also has the Object field.

**15.2.3.2.10 Update Alias Button**

When an available alias from the Currently Available Alias list is selected, this button becomes enabled. Selecting it will display the Define Alias dialog, shown below. The Object name can then be edited.

**15.2.3.2.11 Remove**

Selecting this button will remove the currently selected alias definition from the Currently Available list.

**15.2.3.3 Trend View Source**

This dialog is used when the source View is a Trend View. It enables aliases found in the Trend's configuration pages to be defined.
This text field needs to contain a valid OPC data access tag. The easiest way to do this initially is to drag-drop a tag from the Database Object Viewer.

- Drag-dropping an OPC tag

Aliases or column definitions can be included in the data access tag string. There are two ways to place column aliases into the OPC tag in Data Source field:

1. Auto Insert method
2. Drag-drop method
15.2.3.3.1 Description

This text field allows the user to define a textual description of the attribute to be updated. Aliases (Column or user created types with "<<" ">" delimiters) can also be used in this field. This is then displayed in the Run-Time dialog box, to provide the user with a more meaningful representation for the update to be performed.

15.2.3.3.2 Display Value

If this box is checked, the value of the OPC tag in the Data Source field will be displayed next to the OEMenu item as shown in the example below.

| LOCAL:REAL TARGET.010  | - |
| LOCAL:REAL TARGET.008  | 53.35 |
| LOCAL:REAL TARGET.OPC  | 40.13 |
| LOCAL:REAL TA          | Print |
| LOCAL:REAL TA          | Change Value |
| LOCAL:REAL TARGET.003  | 53.35 |
| LOCAL:REAL TARGET.001  | 87.77 |

15.2.3.3.3 Use Runtime Dialog

If checked, then a dialog box is displayed when the menu item containing the attribute value is selected. This allows the user to specify the value to be written to the database attribute. The dialog box is of the following form:

If a description has been defined, then this will be displayed in the description text box. Otherwise, the full, (resolved) OPC data access tag will be displayed.

15.2.3.3.4 Default Value

If the "Use runtime dialog" option is not checked, then the user must provide a default value, (the edit control will be enabled automatically to allow this). This will define the value to be written to the database.

15.2.3.3.4.1 Graphics View Source

As well as updating database values directly, the Data Server can work in conjunction with the RunSQLScript table to run an SQL Script, when a Custom Pick Action is configured on an OEGraphics display.

15.2.3.3.4.2 How to use the RunSqlScript table
On the OEGraphics display, use the 'Custom' Pick Action, and create an OEMenu item that downloads a
default value via the OPC Data Access Server. The DataSource of the Database Update must be an
OPC Tag that updates the SQLScript attribute of the RunSQLScript table. Deselect the Read Only and
Use Runtime Dialog boxes on the Database Update dialog. The Default Value will be the SQL statement
you want to run. Do not enclose the whole statement in quotes, but the name of the object that is being
updated must be enclosed within two SINGLE quotes - e.g., where name = 'TANKS:TANK3.LEVEL.' In
order to make the button press behave like a normal button press, don't configure the action to generate a
menu, instead check the 'direct invoke' check box, and this will be the default (and only) action on the
menu, so it will occur whenever the button is released and pressed - it will appear to the operator exactly
as if it were a 'download value' pick action. Another advantage of this approach is that the security system
can be used to control this particular pick action using the custom tokens, so you can limit which users
can do it, without requiring database security.

15.2.3.3.5 Read Only

When checked, this restricts the user to viewing the value only.

15.2.3.3.6 Auto Insert Alias

Auto inserting of aliases is used on enable/disable menu dialogs, advanced window naming dialogs and
on database update dialogs. For enable/disable and database update dialogs, aliases are inserted into
the Data Source string. For the advanced window naming dialogs, the aliases are inserted into a text
field.

If checked, every alias that is added through the [Add Alias] button or [Add Column] button will be
automatically added to the string in the Data Source or text field at the cursor position.

If unchecked, aliases will be added to the Currently Available list of aliases, but not to the text or Data
Source field. From there the user can drag and drop any alias into the Data Source field in any order
desired.

15.2.3.3.7 Add Alias Button

When the [Add Alias] button is selected the 'New Alias' or 'Define Alias' dialog is displayed, depending on
whether the source view is a Trend or Graphics view.

15.2.3.3.7.1 New Alias Dialog (Trend View source)

There is only one field on this dialog, which is the name of the alias.

15.2.3.3.7.2 Alias Definition Dialog (Graphics View source)

The Graphics View dialog also has the Object field.
15.2.3.8 Currently Available List

When a new alias or column is added, it appears within this list. It can then be dragged and dropped from here into any field containing a full data access OPC tag definition.

15.2.3.9 Remove Button

An alias selected from the Currently Available list of aliases may be removed by selecting the [Remove] button.

15.2.4 Launch Windows Application

This dialog enables the user to configure OEMenus to launch a Windows application. As well as valid strings, it also allows Column or Alias type Parameters to be used to specify the executable file, its start in folder or the filename argument. The appearance of the dialog varies according to what type of Aliases the Source View is able to send as Parameters.

15.2.4.1 Column Parameters

To illustrate the use of Column Parameters, in the example below, a new table has been created, listing corresponding application, start in folders and file names. Each column of the table is used as a Parameter to call a Windows application and load the selected file. The Custom menu is configured on an SQL View file (DBX), which displays the contents of the table. If the user selects a row from the list and uses the Custom menu, the selected file is loaded into its correct application within the Windows environment.
15.2.4.2 Alias Parameters

If the Source View sends non-column Aliases as Parameters, there is only one list - Parameters. To start with the list is unpopulated, and you have to add the Parameters to the list. To do this click the [Add Alias] button.
15.2.4.3 Executable File Field

This editable field must contain the whole path name and file name of the executable file that is to be launched, or an Alias that contains the full path name of the application. The user may also type this in or use the [Browse] button.

15.2.4.4 Browse Button

Selecting the [Browse] button will invoke the standard Windows™ File Open dialog box, which allows the user to browse for the application to be launched.

15.2.4.5 Start In Field

This field defines the directory in which the executable will run.

15.2.4.6 Arguments Field

This field specifies command line parameters. This will usually be a file that is to be opened by the executable.

15.2.4.7 Run Field

The user can chose to launch the application in a maximized, minimized or normal window.
15.2.4.8 Available Columns

When you open the Launch Application dialog, if the Source View sends Column Parameters, this list will be automatically populated with any columns that are available to the Source View. These can be used as Parameters for opening the application and loading in a file. To use them as Parameters, select one of the listed Columns then the [Add] button. The selected column will be added to the Currently Available list, with a Type of Column. It can now be used as a Parameter by dragging it from the Currently Available list to one of the Parameter fields (Executable, Start in or Arguments).

15.2.4.9 Auto Insert

If this button is checked, then place the cursor inside the appropriate Application field at the top of the dialog before the Add Column or Alias button is used. Then the new Parameter will be added at the cursor position in the selected field automatically, with the correct delimiters.

15.2.4.10 Add Column or Alias Button

The name of this button will change according to the Type of Parameters sent by the Source View which hosts the Custom menu. Columns or Aliases can be made available to send as Parameters using this button. If you are configuring a Source View that sends Column values as Aliases, select an Alias from the Available Columns list first, then select this button. The selected Column will then appear in the Currently Available list, and can then be dragged to the appropriate field in the Application section of the dialog.

If you are configuring from a Source View that sends user defined Aliases, the Available Columns list is replaced by a Parameters list, and you need to create a list of your configured Aliases first. When you click this button, you will see the Add Alias Dialog

15.2.4.11 Add Alias Dialog

This dialog enables OEMenus to locate an Alias on the current View. If the Alias is on a Graphics View, you should firstly give the Dynamic object on which it resides a name, and secondly make sure that it is resolved to a value by the time it is sent to the called application.

If the Alias is on a Trend View, there is no need to define an object, so the above dialog appears with only the Name field.
15.2.4.11.1 Alias Name

This is the name of the alias that is being sent from the Source component to the Target component. There is no need to add the double chevrons.

15.2.4.11.2 Object Name

This is the name of the dynamic object on the Source display which contains the Named Alias.

15.2.4.12 Currently Available

When you are configuring the Custom menu on a View that sends Column Aliases as Parameters (e.g. Alarm View or SQL View), if you select a Column Alias from the Available Columns list, then click the [Add Column] button, it is added to this list. It can then be dragged to the appropriate field in the Application section of the dialog, where it will be dropped with the correct delimiters automatically added.

15.2.4.13 Parameters List

This list is empty when the Launch Application dialog is first opened. You have to populate it using the [Add Alias] button, which opens the Add Alias dialog.

15.2.4.14 Update Button

This button is only available when the Source of the Custom menu is Graphics View. It enables you to change the Object name of an Alias that has already been added to the Parameters list. Select the Alias, and then the [Update] button. This opens the Add Alias dialog with the Object field in edit mode. Change the Object name and click the [OK] button to update the Object name for the Alias.

15.2.4.15 Remove Button

An alias selected from the Currently Available list of aliases may be removed by selecting the [Remove] button.

16 Window Name

The Window "Name" field allows the user to define the name of the window into which the target View is launched.
Naming windows allows for component re-use within OEDesktop. When an OEMenu action is invoked, OEDesktop will look for a window with the Window Name specified by the action. If it exists, OEDesktop will reuse that window rather than creating a new window.

**NOTE:** For this to work, the window name must already contain an OpenEnterprise View of the same type as that specified as the target, (i.e. One can only load an Alarm Client into a window already containing an Alarm Client.)

The window will be auto named by OEDesktop if: -

- No Window Name is specified
- No dynamic Caption is configured
- The specified window contains a View of a different type

### 16.1 Window Name Aliases

Text and aliases can be used in the Window Name field. This feature can be used to provide unique window names for the target view when using OEMenus. For more information on how this works, see the example on the Window Name Aliases Example topic.

### 16.2 Window Name Aliases Example

The example OEDesktop below shows how a Graphics display has been configured so that OEMenus opens a single Trend file in the OEDesktop with a unique window name depending on which signal was selected. Each window name contains the signal name that was selected. If a user selects the same signal twice, the previous window is overwritten.

The target Trend file has the default pen configured with a `<SIGNAL>` alias in the place of the name part of the OPC tag.

The same alias on the source Graphics file that is controlling the window names is also used to resolve the alias in the Trend tag.
16.2.1 Source Display Configuration

This section describes the configuration required on the source view, which is a Graphics View display. These are the items to configure on the Source display.

1. Process Points and Pick objects
2. Menu Editor configuration
3. Parameter configuration
4. Setting the alias values

16.2.1.1 Process Point and Pick Object

1. The first thing that we need to do is to drop a Process Point onto the Graphics View display area.

2. Then in the Process Point Datasource, we put an alias named «SIGNAL>>. Note we enclose this alias inside "$" and "$" markers, ensuring that when the alias is given a value, that value will appear as text on the display.
3. We give the PPT/DE object a name of ‘SIG1’. This is so that we can refer to the specific object on which the alias appears when passing the value of the alias as a parameter to our target View. This means that we can use the same alias name on all of our Process Point objects, but assign a different value to the alias on each object.

4. Next, we need to create the OEMenu on the Process Point. This is done by adding a Custom menu on the Default Pick object that is automatically added to the Process Point. Firstly, check that the ‘Custom Command’ Action is already selected for the Pick object.

5. Then click the [Custom] button at the bottom of the dialog.
16.2.1.2 Menu Editor Configuration

1. Create a menu command with the name 'TREND'. Note, we leave ‘Direct Invoke’ checked. This is because we want the menu action to take place when the object is clicked, rather than having to select the menu option after the object is clicked.

2. We set the Target to ‘OE Trend View’, and the Action to 'Load File with Parameters'. Then click the [Configure] button.

3. Then type the name of the window into the 'Name' field in the 'Window' section, followed by a hyphen and the <<SIGNAL>> alias. The <<SIGNAL>> part of the name will be substituted with the value that we will later give to the alias of that name that is on this object.

4. Now we have to configure the 'Load File with Parameters' Action, so click the [Configure] button on the 'Command' section.
16.2.1.3 Load File with Parameters Configuration

1. Configure the file to load. The Trend file that we will load should have already been configured with a <<SIGNAL>> alias in the name part of a tag that we have configured on the Default Pen. See the Target Display Configuration topic for this.

2. Then type the target alias name into the ‘Target column or alias to resolve’ field.

   Target column or alias to resolve (Delimiters are not required):
   SIGNAL

3. Next, set the parameter value as detailed in the numbered steps in the image below.

4. Finally, add the Parameter to the Parameters list by clicking the [Add] button.
5. The Parameter is added to the Parameters list.

<table>
<thead>
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<th>Name</th>
<th>Definition</th>
<th>Ob...</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGNAL</td>
<td>&lt;&lt;SIGNAL&gt;&gt;</td>
<td>SIG1</td>
</tr>
</tbody>
</table>

16.2.1.4 Setting the Alias Values

Now we need to set the alias names on each object to have the value we want it to have.

1. Right click on the Process Point that you have just configured and select 'Edit Local Aliases'.

[Diagram showing the parameter value and how to set aliases]

Parameter Value
The parameter value can be a combination of aliases and constants. To add an alias, enter the alias name and press insert. Delimiters will be automatically added.
2. Type the Alias Definition into the editable field for the Alias that is on the object. Then click the OK button.
16.2.2 Target Display Configuration

The Target display in our example is a Trend View. This is how we configured it.

1. Open a new Trend View in the OEDesktop and place it into configure mode, then right click on it and select 'Properties'

2. Select the Pens tab, click on the Default Pen, then select the [Modify] button.

3. Now, create a query in a Database Object viewer that finds some signal values, and drag-drop the value into the Data Source field for the Default pen.
4. Now highlight the name in the OPC Tag, delete it, and type in the <<SIGNAL>> target alias.

   a.

   b.

5. Finally, check the 'Convert Realtime Data Sources to Historical' box under the Data Source field. Then save the Trend View.

### 17 Window Behaviour

The Window Behaviour list enables the user to configure what the source component window will do once the OEMenu Action has completed. Click on the following options for more information:

#### 17.1.1 No Parent

If selected, and when the Menu Action is completed, the source OE component window will remain open and visible, since it is not considered to have any parent /child relationship with the new window.

#### 17.1.2 Hide Parent

If selected, the source component window is hidden when the Menu Action is completed. It will not be visible but the window will still be available for use by other OEMenus actions.
17.1.3 Close Parent

Selection of this option will cause the source component window to be closed once the Menu Action has taken place.

17.1.4 With Parent

Selection of this option causes the target window to be associated with its parent source such that if the parent window (the source) is subsequently closed, then the child window (the target) will also be closed.

18 Window Type

The Window Type Combo Box allows the user to define one of three styles for the target component window:

18.1.1 MDI Child

A standard Multiple Document Interface window. This type of window can only be moved about within the OEDesktop window, but not outside it.

18.1.2 Floating Window

This type of window is one that is not bound to the draw area of the OEDesktop (i.e. it can be moved outside the OEDesktop).

18.1.3 Docked

This is a window which is attached to the top, bottom, left or right side of the OEDesktop window.

19 [Advanced] Button

The [Advanced] button enables more advanced configuration for the caption that appears on the window title bar of the OEMenus target. The dialog differs depending on which OpenEnterprise View is acting as the Source for the OEMenu. Click on the Related Topics links below to go to the relevant Advanced Window Name Dialog.

19.1 Window Name Advanced

When a Custom Menu is selected by a user in Runtime, it will open a new window in the OEDesktop environment containing the Target View. This dialog enables you to control the caption of the new window. The configuration dialog is different depending on whether the Source View supports Alias or Column type Parameters.

1. Alias Type Parameters

2. Column Type Parameters

To see what type of data each of the Views displays, see the Views and Data Sources page.
19.1.1 Window Name Advanced with Alias Parameters

This is how the Window Caption dialog appears for Source components which display non tabular data (i.e. OEGraphics and Trend Views).

![Window Name Advanced dialog]

19.1.1.1 Window Name

The target window name is copied here from the main Menu Editor dialog. This field is editable, so the target window name can be configured from here, if no name was specified on the main dialog.

19.1.1.2 Use Window Name

The Use Window Name box is checked by default. This indicates that the OEMenu command will currently use whatever is in the Name field on the previous dialog as the window name for the target component. Every field is disabled until the 'Use Window Name' box is unchecked. Certain fields will then become enabled, depending on the source component being used.

19.1.1.3 Caption Text - With 'In Tag' Type Parameters

OpenEnterprise enables windows to have both a window name and a window caption. If a window is given a name, but not a caption, the name is by default used as the caption, or title at the top of the window. However, if the window is given a caption, the caption will override the window name as the title of the window. OpenEnterprise allows you to specify a caption or a name for the window that will open in the OEDesktop as the result of a custom menu action.
19.1.1.3.1 Enabling the Caption Text Field

If the 'Use Window Name' box remains checked, this field is not editable, as demonstrated in the example above. To make it editable, un-check the 'Use Window Name for Caption Text' box, as shown in the example below.

Then the Caption Text box becomes editable. You can enter any combination of free text and aliases as the window caption, as shown in the image below.

19.1.1.3.2 The differences between a Window Name and Caption Text

Use the Caption Text when you do not mind having multiple windows open in the OEDesktop with the same name. Use the Window Name when you want only one window with the same name open in the OEDesktop.

19.1.1.4 Currently Available List

When a new alias or column is added, it appears within this list. It can then be dragged and dropped from here into any field containing a full data access OPC tag definition.

19.1.1.5 Auto Insert Alias

Auto inserting of aliases is used on enable/disable menu dialogs, advanced window naming dialogs and on database update dialogs. For enable/disable and database update dialogs, aliases are inserted into the Data Source string. For the advanced window naming dialogs, the aliases are inserted into a text field.

If checked, every alias that is added through the [Add Alias] button or [Add Column] button will be automatically added to the string in the Data Source or text field at the cursor position.

If unchecked, aliases will be added to the Currently Available list of aliases, but not to the text or Data Source field. From there the user can drag and drop any alias into the Data Source field in any order desired.
19.1.1.6 **Add Alias Button**

When the [Add Alias] button is selected the 'New Alias' or 'Define Alias' dialog is displayed, depending on whether the source view is a Trend or Graphics view.

19.1.1.6.1 **New Alias Dialog (Trend View source)**

There is only one field on this dialog, which is the name of the alias.

![New Alias Dialog](image)

19.1.1.6.2 **Alias Definition Dialog (Graphics View source)**

The Graphics View dialog also has the Object field.

![Alias Definition Dialog](image)

19.1.1.7 **Update Alias Button**

When an available alias from the Currently Available Alias list is selected, this button becomes enabled. Selecting it will display the Define Alias dialog, shown below. The Object name can then be edited.

![Define Alias Dialog](image)
19.1.1.8 Remove Button

An alias selected from the Currently Available list of aliases may be removed by selecting the [Remove] button.

19.1.2 Window Name Advanced with Column Parameters

This is the Window Caption dialog for Source components that retrieve data in tabular format, and therefore use columns as parameters (i.e. Alarm View, SQL View, Notes View and Alarm Banner View).

![Window Name Advanced dialog](image)

19.1.2.1 Window Name

The target window name is copied here from the main Menu Editor dialog. This field is editable, so the target window name can be configured from here, if no name was specified on the main dialog.
19.1.2.2 Use Window Name

The Use window name box is checked by default. This indicates that the OEMenu command will currently use whatever is in the Name field on the previous dialog as the window name for the target component. Every field is disabled until the 'Use Window Name' box is unchecked. Certain fields will then become enabled, depending on the source component being used.

19.1.2.3 Caption Text - With Column Type Parameters

OpenEnterprise enables windows to have both a window name and a window caption. If a window is given a name, but not a caption, the name is by default used as the caption, or title at the top of the window. However, if the window is given a caption, the caption will override the window name as the title of the window. OpenEnterprise allows you to specify a caption or a name for the window that will open in the OEDesktop as the result of a custom menu action.

19.1.2.3.1 Enabling the Caption Text Field

If the 'Use Window Name' box remains checked, this field is not editable, as demonstrated in the example above. To make it editable, un-check the 'Use Window Name for Caption Text' box, as shown in the example below.

Then the Caption Text box becomes editable. You can enter any combination of free text and aliases as the window caption, as shown in the image below.

19.1.2.3.2 The differences between a Window Name and Caption Text

Use the Caption Text when you do not mind having multiple windows open in the OEDesktop with the same name. Use the Window Name when you want only one window with the same name open in the OEDesktop.

19.1.2.4 Available Columns

The other controls behave in the same way as for Parameter aliases, but the aliases are selected directly from the Available Columns list.
19.1.2.5 Auto Insert Alias

Auto inserting of aliases is used on enable/disable menu dialogs, advanced window naming dialogs and on database update dialogs. For enable/disable and database update dialogs, aliases are inserted into the Data Source string. For the advanced window naming dialogs, the aliases are inserted into a text field.

If checked, every alias that is added through the [Add Alias] button or [Add Column] button will be automatically added to the string in the Data Source or text field at the cursor position.

If unchecked, aliases will be added to the Currently Available list of aliases, but not to the text or Data Source field. From there the user can drag and drop any alias into the Data Source field in any order desired.

19.1.2.6 Add Column Button

When this button is selected the currently selected column within the 'Available Columns' list will be copied to the 'Currently Available' list. Once in the 'Currently Available' list, the aliases can be dragged and dropped to any point within the Data Source or Caption Text field, depending on the type of dialog.

19.1.2.7 Currently Available List

When a new alias or column is added, it appears within this list. It can then be dragged and dropped from here into any field containing a full data access OPC tag definition.

19.1.2.8 Remove Button

An alias selected from the Currently Available list of aliases may be removed by selecting the [Remove] button.

20 More Dialog

The Main Menu Editor dialog has a button labelled [More>>]. When selected, an extra part of the dialog is revealed, providing options which control the look, style and size of the Target View window.
20.1 Show Status Bar

Indicates whether the status bar will be displayed at the bottom of the Child windows.

20.2 Dock with Title Bar

For a docked window the user can choose whether to display a Title bar. This option is disabled if the Window Type selection was not Docked.
20.3 Dock with Gripper

For a docked window the user can choose whether it has a gripper bar. This option is disabled if the Window Type selection was not Docked.

20.4 Docked To...

The Docked To menu option enables the user to specify which side of the main OEDesktop window the docked window will be attached to. Options are:

- Top
- Left
- Bottom
- Right

At creation a docked window can be docked along the entire length of one of the four main window's sides. Docked windows having a title bar or gripper bar can moved once loaded into the OEDesktop by dragging them by the gripper or title bar to another side. Docked windows with no gripper or title bar cannot be moved once loaded into the OEDesktop. Two or more docked windows may share the same side.

20.5 Resizeable

If selected, the window will be resizable.

20.6 Restyleable

Toggles the pop-up context menu that allows the user to change the window type.

20.7 Minimizable

The window may be minimized. This feature applies only to MDI child windows.

20.8 Maximizable

The window may be maximized. This feature applies only to MDI child windows.

20.9 Window Zoom State

There are 4 options:

- Normal
- Minimized
- Maximized
- Maximum State - creates a window with normal zoom, but sized as large as possible. This option is only relevant with MDI child windows.
20.10 Height

Height in Pixels. Only one dimension for docked windows can be set; which one depends on which side it is docked to.

20.11 Width

Width in Pixels. Whereas MDI child and floating windows can have height and width set, only one dimension for docked windows can be set; which one depends on which side it is docked to.

20.12 From Left

The number of pixels that the new window will be offset horizontally from the origin of the selected Relative To object.

20.13 From Top

The number of pixels that the new window will be offset vertically from the origin of the selected Relative To object.

20.14 Relative To

If selected, the top left corner of the new window will be positioned at an offset relative to the positional object selected. The offset is designated by the values in the From Left and From Top fields. The point from which the offset is calculated will either be the top left corner of the OEDesktop, the Windows Desktop or the current mouse position.

20.15 Centre On

If selected, the centre of the new window will be positioned exactly in the centre of the positional object selected, whether that be the OEDesktop or the Windows Desktop. The mouse is not available in the Positional Object List if the Centre On option is selected.

20.16 Positional Object List

Defines the object that will be used as a marker to position the new window. The new window's position will be determined by the selection made from this list and which of the positioning options was selected (i.e. Relative To or Centre On). The possible positional objects are as follows:-

20.16.1 OE Desktop

If the Relative To option is selected, the new window will be placed at the designated offset from the top left corner of the window display area of the OEDesktop window. If the Centre On option is chosen, the new window will be positioned exactly in the centre of the OEDesktop display area.

20.16.2 Windows Desktop

This is the default point of origin for Floating windows. If the Relative To option is selected, the top left corner of the new window will appear at the designated offset from the Top Left corner of the Windows Desktop. If the Centre On option was selected, the new window will appear in the exact centre of the Windows Desktop. This option is not available for MDI Child type windows.
20.16.3 Mouse Position

This option is available as a point of origin for both MDI Child and Floating type windows. If the Relative To option is chosen, the top left corner of the new window will appear at the designated offset from the current position of the mouse. If the Centre On option is chosen, the Mouse Position option is not available.

More Dialog

21 Worked Example

For this example, the Source of the OEMenus action will be a Graphics display, the Target will be an Alarm View.

The Graphics display that is the Source of this OEMenus action was the Target of a previous OEMenus action. The Tank that is displayed on the Source of this OEMenus action was passed as a parameter from a previous display.

The Alarm View itself is configured to receive filters from OEMenus, but has no filters configured directly on it’s Filter Page. It is filtered by the name parameter passed when opened via OEMenus from the Source Graphics display.

21.1 STEP 1 - Create the Target View

As with all OEMenus configurations it is better to start with the target component. Open a new Alarm View and configure the Database and Attributes pages. Then ensure that the Use Filter flag is set on the Filter Page as shown below.

There is no need to use the [Modify] button to define a filter here, since the filter will be passed as a parameter from the Source component via OEMenus. The Alarm View should now be saved.
21.2  **STEP 2 - Source View - Add Visible Object**

Add a tank from one of the library of ready made objects within OEGraphics. Then add a rectangle on top of the tank, as shown below.

21.3  **STEP 3 - Source View - Adding Dynamic Object**

With the visible object selected, click on the Size icon from the Dynamics toolbar, circled in red on the image below.

This opens the Size object Property Inspector, shown below.
21.4 **STEP 4 - Source View - Add OPC Tag**

The Data Source field must contain an OPC tag to drive the dynamic object. This is best done by dragging the tag from a Database Object Viewer, as shown in the animation below. Right click the mouse on the image and select 'Play' to activate the animation.
21.5 STEP 5 - Source View - Create Alias

An alias must now be created to pass over to the Target Alarm View. This is done by substituting all or a part of the OPC tag by an alias, recognized by the double chevrons either side of it (i.e. <<ALIAS>>).

Here, the identifying name of the tag is substituted with an alias called <<NAME>>. Note that the alias is typed in upper case letters. This is to distinguish aliases from columns, when used as parameters for OEMenu commands. The substitution involves two sub steps.

21.5.1.1 1. Select the part of the tag to be substituted with an alias

21.5.1.2 2. Type in the alias
21.6 STEP 6 - Source View - Define Alias Value

Now the dynamic object is named. This is done by typing the name into the Object Name field. Here the name of the object is given as 'TANK 3 LEVEL'.

Then the alias should be given a value if this is the starting point of the display hierarchy. Otherwise, the value of the alias would be passed in from another OEView component. To do this select 'Edit Aliases' from the 'Dynamics' menu.

The Edit Aliases dialog is then displayed. The named object is selected, and the Alias Definition is changed by typing in a valid signal name, as shown in the example below.
21.7 STEP 7 - Source View - Create Custom Menu

Now, an OEMenu will be created on the object. This means that when a user clicks on the object, a context menu can be displayed inviting the user to perform an action. To create an OEMenu, a pick object must first be created. Here we are creating it on the original rectangular object.

1. Create a Pick Object

   With the Property Inspector for the tank level object open, select the Default Pick tab. The Action field should already say 'Custom Command' as shown in the image below.

   ![Custom Command Action already selected]

2. Create a Custom Command on the Pick object

   If there is no Default Pick tab, then create a Pick tab by selecting the object on the page, then select the Pick button on the Dynamics tool bar, highlighted in the image below.
Now open the Pick tab on the object's Property Inspector dialog by selecting the Custom Command option from the action list, as shown below.

When this is done select the [Custom...] button at the bottom of the Pick tab to open the OEMenu Editor.

3. Create and configure a new OEMenu

Here, as can be seen from the Load File with Parameters configuration dialog, it has been configured to load the Source OEAlarm View saved in Step 1, passing to its name column the value of the <<NAME>> alias found in the Size dynamic on the 'TANK 3 LEVEL' object.
21.8 Example in Action

The image below shows how the context menu on the Tank level filters the Alarm Viewer to show only alarms for the Tank Level 3 signal.
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