

Reference Guide

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OpenEnterprise Local Signal Maintenance Tool Reference Guide (V2.83)

Remote Automation Solutions

Website: www.EmersonProcess.com/Remote



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1 Local Signal Maintenance Tool

The Local Signal Maintenance Tool enables the user to create, modify and delete local signals. Local signals can be created singly or can be created as a series. Local signals are used typically to store the results of calculations or to trigger alarms.

Local signals are created in the following tables:-

- LocalRealAnalog_Table
- LocalIntegerAnalog_Table
- LocalDigital_Table
- LocalStringSignal_Table
- LocalTimeSignal_Table
- LocalMultiDigital2_Table
- LocalMultiDigital3_Table
- LocalMultiDigital4_Table

Because of the object oriented features of the OpenEnterprise database they will also automatically become objects in the RealAnalog, IntegerAnalog, Digital, StringSignal, Time and MultiDigital2 tables, from which the Local tables are derived.

1.1 Command Line Arguments

When launched, the following parameters supplied to the 'COMMANDLINE' value on the 'OpenEnterprise\Tasks\OEToolBox\Editors\Local Signals' key in the Settings Editor will be supported.

```
-s%Database% -u%User% -p>Password% [-x]
```

Where:

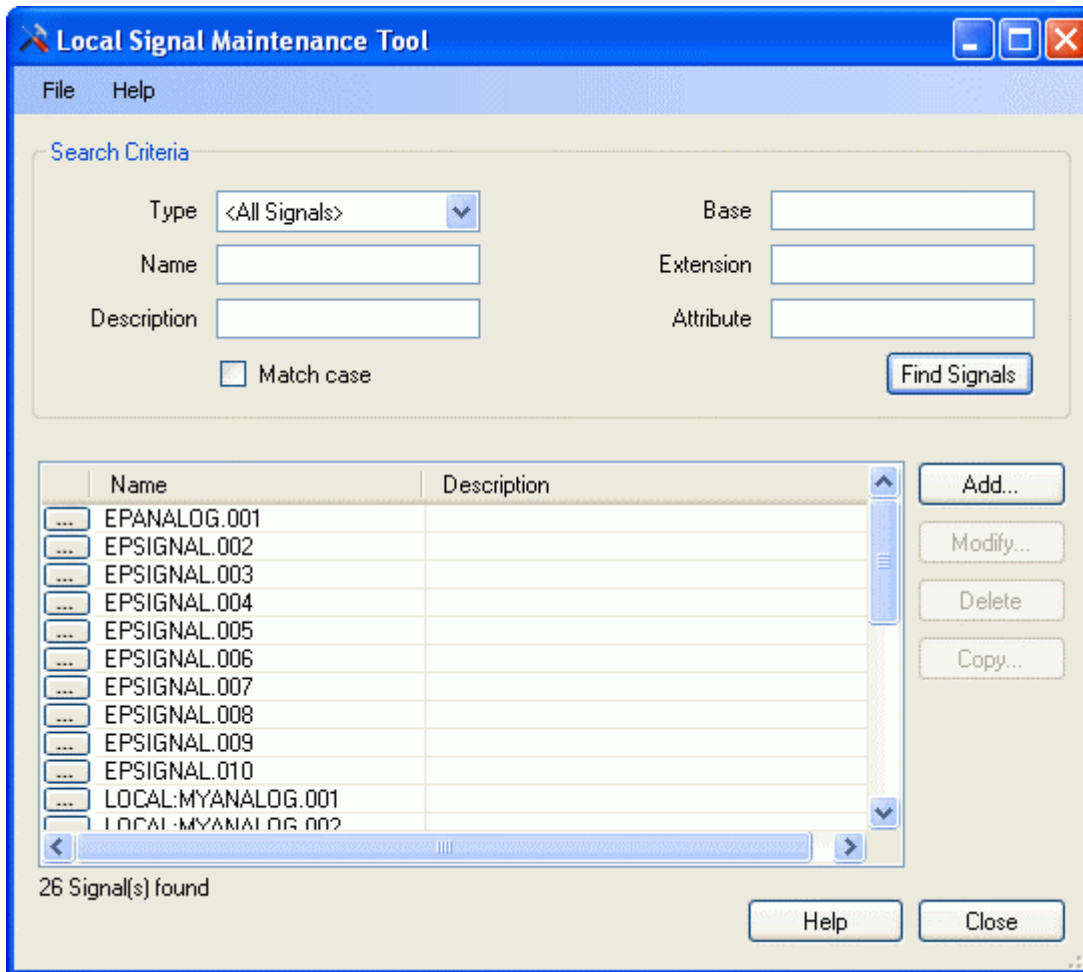
Database is the data service of the database e.g. "rtrdb1"

User and **Password** are the credentials of the currently logged-on user.

x is a request to perform an export (all) and close.

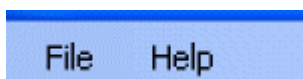
1.2 Main Interface

The main interface of the 'Local Signal Maintenance Tool' enables the user to view, create, modify, copy and delete local signals.



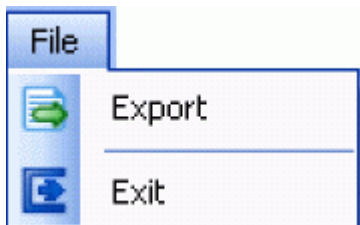
1.2.1 Menu Bar

The menu bar has an option to export the current local signal configuration from the OpenEnterprise database to an SQL script file.



1.2.1.1 File

The 'File' menu has an option to export the current local signal configuration to an SQL script file.



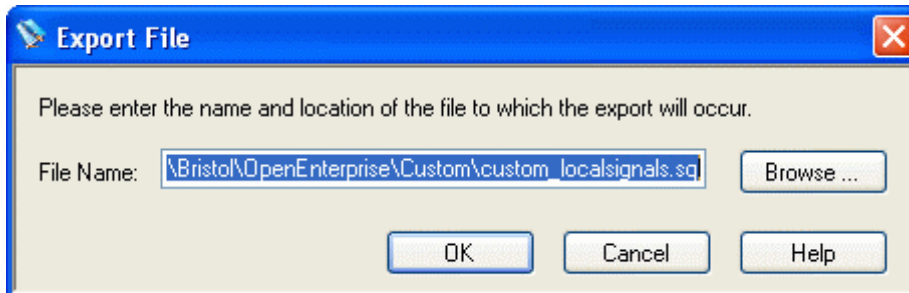
1.2.1.1.1 Export

This option allows the user to save all local signal configuration currently in the OpenEnterprise database to an SQL script file. This can be used at any time to restore the current local signal configuration to the OpenEnterprise database.

1.2.1.1.1.1 The Export File Dialog

The dialog opens with a fully qualified path-filename already in the 'File Name' field. It points to the default OpenEnterprise Custom directory. This default directory can be changed using the View>Options menu from the Toolbox. The suggested name of the file will be 'custom_localsignals.sql'.

The name of the file can be changed. If you do this, you should leave the '.sql' extension, which marks it as an SQL script file. The directory can also be changed by using the [Browse...] button to search for a new directory.



When [OK] is selected, OpenEnterprise will write the current local signal configuration from the OpenEnterprise database to the file. A message will inform you that the file has been exported successfully.



1.2.1.1.1.2 Restoring Local Signal Configuration

You can use the export file created with this operation to restore local signal configuration by doing the following:

1. Open the SQL Client (Start>Programs>OpenEnterprise>SQL Client)
2. Type into the SQL Client the following SQL command on one line:

```
include 'C:\Documents and Settings\All  
Users\Documents\Bristol\OpenEnterprise\Custom\custom_localsignals.sql'  
;
```

- where the path and file name refer to the original .SQL file created by the Export operation.

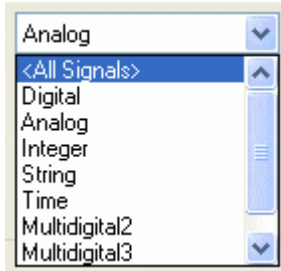
1.2.2 Search Criteria

This section of the dialog contains controls to enable the user to apply filters when the [Find Signals] button is selected.

1.2.3 Type

Select the signal type from this drop-down list. When viewing signals from the main interface, the selection will be used to filter the signal list when the [Find Signals] button is selected.

When used from the 'Add Signal' dialog, the selection will determine the type of signal that will be created.



1.2.4 Name

The string typed here will be applied as a filter on the signal query when the [Find Signals] button is selected. Wildcard characters can be used.

The (*) or (%) wildcard characters can be used interchangeably. The wildcard character forces all text before the wildcard to be ignored if it appears at the beginning of the string, or all text after it if it appears at the end. Wildcard characters cannot be used in the middle of the string.

1.2.5 Description

A string that provides a fuller description of the signal.

1.2.5.1 Use in Main Interface

Filters the signal query on description attribute when used from the main interface. The (*) or (%) wildcard characters can be used interchangeably. The wildcard character forces all text before the wildcard to be ignored if it appears at the beginning of the string, or all text after it if it appears at the end. Wildcard characters cannot be used in the middle of the string.

1.2.5.2 Use when adding signals

When used from the 'Add Signal' dialog, a fuller description of the signal that will be created can be entered here.

1.2.5.3 Use when modifying or copying signals

Enables the user to change the description for the signal

1.2.6 Base

The Base part of the signal name. The string typed here will be applied as a filter on the signal query when the [Find Signals] button is selected. Wildcard characters can be used.

The (*) or (%) wildcard characters can be used interchangeably. The wildcard character forces all text before the wildcard to be ignored if it appears at the beginning of the string, or all text after it if it appears at the end. Wildcard characters cannot be used in the middle of the string.

1.2.6.1 When adding a signal...

When adding a signal, the signal name will be parsed to extract the Base assuming the following format:-

<DEVICE NAME>:<BASE>.<EXTENSION>.<ATTRIBUTE>

The Base will be the part of the name that comes after the colon (if a 'LOCAL' device name is used to prefix the signal name) and before the first period in the name.

If no period appears in the name, the Base will be all text after the colon (if used), all text if no colon and no period is used.

1.2.7 Extension

The Extension part of the signal name. The string typed here will be applied as a filter on the signal query when the [Find Signals] button is selected. Wildcard characters can be used.

The (*) or (%) wildcard characters can be used interchangeably. The wildcard character forces all text before the wildcard to be ignored if it appears at the beginning of the string, or all text after it if it appears at the end. Wildcard characters cannot be used in the middle of the string.

1.2.7.1 When adding a signal...

When adding a signal, the signal name will be parsed to extract the Extension assuming the following format:-

<DEVICE NAME>:<BASE>.<EXTENSION>.<ATTRIBUTE>

The Extension will be the part of the name that comes after the first period in the name. If no period appears in the name, the signal will have no Extension when created.

1.2.8 Attribute

The Attribute part of the signal name. This will be the part of the name that comes after the second period in the name. The string typed here will be applied as a filter on the signal query when the [Find Signals] button is selected. Wildcard characters can be used.

The (*) or (%) wildcard characters can be used interchangeably. The wildcard character forces all text before the wildcard to be ignored if it appears at the beginning of the string, or all text after it if it appears at the end. Wildcard characters cannot be used in the middle of the string.

1.2.8.1 When adding a signal...

When adding a signal, the signal name will be parsed to extract the Base assuming the following format:-

<DEVICE NAME>:<BASE>.<EXTENSION>.<ATTRIBUTE>

The Attribute will be the part of the name that comes after the second period in the name. If no second period appears in the name, the signal will have no Attribute when created.

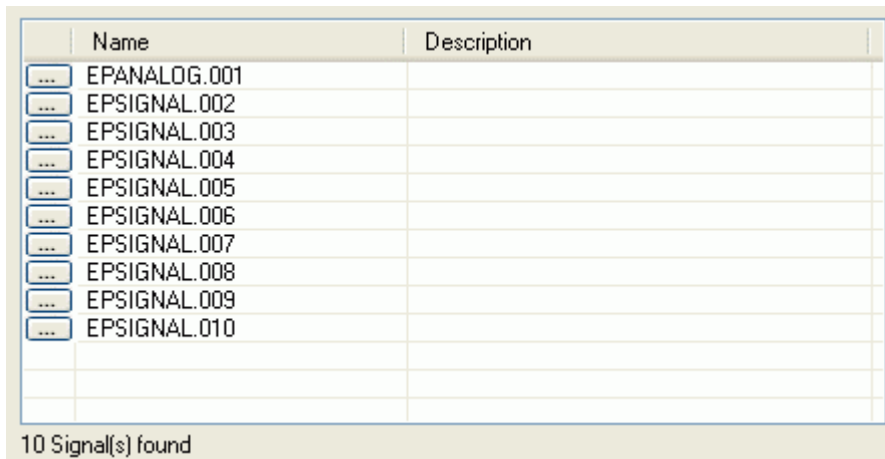
1.2.9 Match Case

When checked, the search will enforce case matching indicated in the filter fields.

1.2.10 Find Signals

Finds all signals matching the search criteria found in the 'Search Criteria' section. All signals found will be listed in the Signal List.

For instance if 'EP%' was entered into the name field, this would find the following signals if they existed.



Name	Description
EPANALOG.001	
EPSIGNAL.002	
EPSIGNAL.003	
EPSIGNAL.004	
EPSIGNAL.005	
EPSIGNAL.006	
EPSIGNAL.007	
EPSIGNAL.008	
EPSIGNAL.009	
EPSIGNAL.010	

10 Signal(s) found

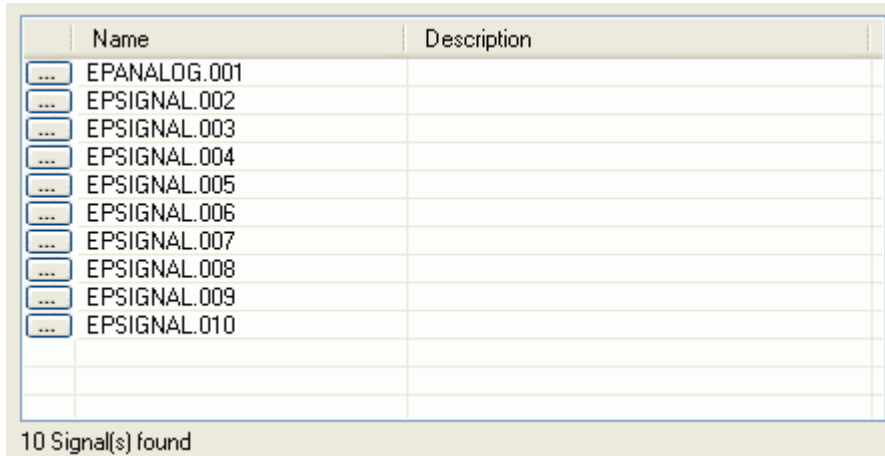
1.2.11 Details

Selecting the [...] button next to the signals opens the Properties dialog for that signal, which enables all non primary attributes to be modified.

1.2.12 Signal List

Lists all signals found using the criteria in the 'Search Criteria' section when the [Find Signals] button is selected.

Clicking on the [...] button to the left of a signal opens the 'Signal Properties' dialog, which enables the user to edit most attributes of the signal.



Name	Description
EPANALOG.001	
EPSIGNAL.002	
EPSIGNAL.003	
EPSIGNAL.004	
EPSIGNAL.005	
EPSIGNAL.006	
EPSIGNAL.007	
EPSIGNAL.008	
EPSIGNAL.009	
EPSIGNAL.010	

10 Signal(s) found

1.2.13 Add..

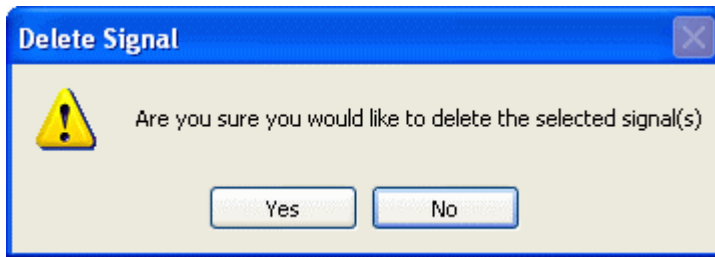
Opens the 'Add Signal' dialog, which enables the user to add new local signals.

1.2.14 Modify...

Opens the 'Modify Signal' dialog which enables the user to modify a selected signal.

1.2.15 Delete

Deletes the selected signal. The user will be prompted to confirm the deletion before it takes place.



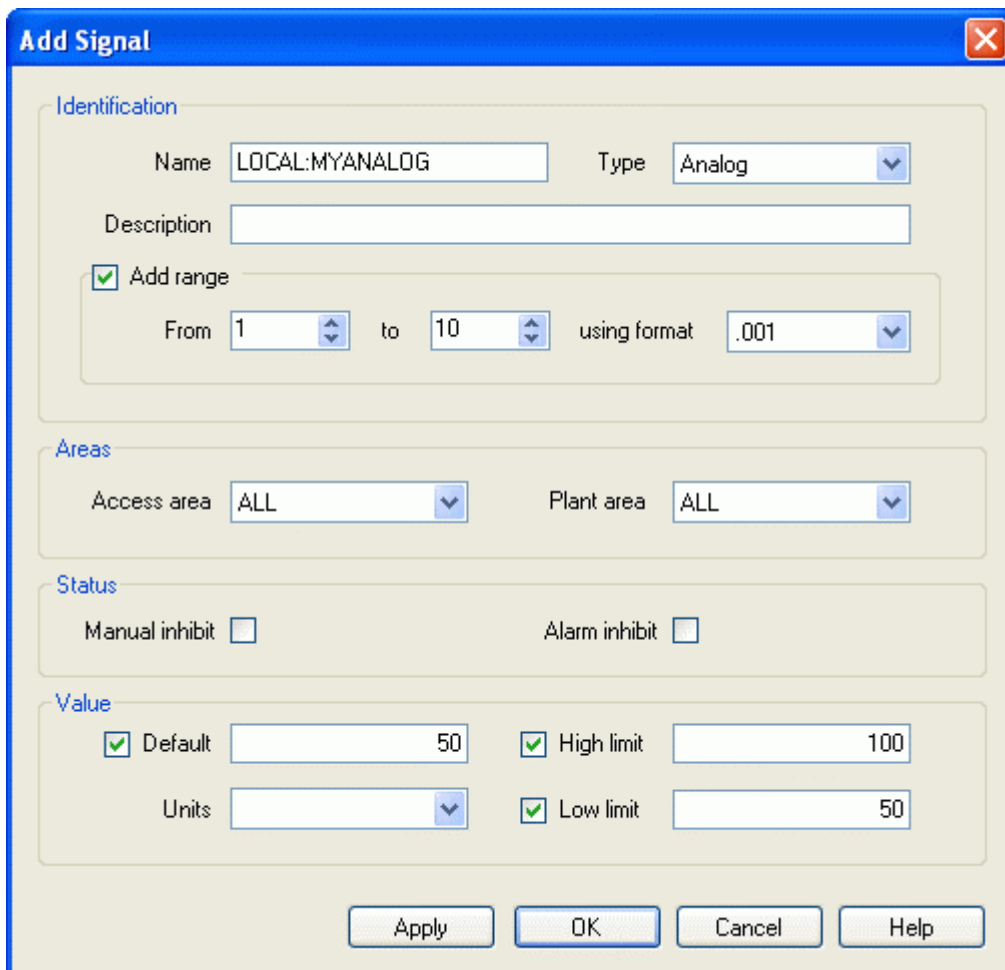
On selection of the [Yes] button, the signal will be deleted. If the [No] button is selected, the deletion will be aborted.

1.2.16 Copy...

The 'Copy Signal' dialog will open, enabling the user to create another signal using the selected signal as a template.

1.3 Add Signal

This dialog enables the user to create a new local signal.



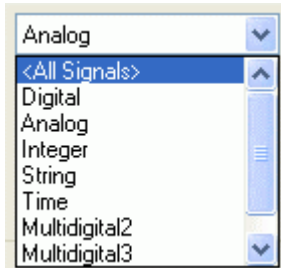
1.3.1 Name

The name must be changed when copying a signal because the name has to be unique. Until the user modifies the signal name, the [Apply] and [OK] buttons are disabled. When the name is modified, these buttons become enabled.

1.3.2 Type

Select the signal type from this drop-down list. When viewing signals from the main interface, the selection will be used to filter the signal list when the [Find Signals] button is selected.

When used from the 'Add Signal' dialog, the selection will determine the type of signal that will be created.



1.3.3 Description

A string that provides a fuller description of the signal.

1.3.3.1 Use in Main Interface

Filters the signal query on description attribute when used from the main interface. The (*) or (%) wildcard characters can be used interchangeably. The wildcard character forces all text before the wildcard to be ignored if it appears at the beginning of the string, or all text after it if it appears at the end. Wildcard characters cannot be used in the middle of the string.

1.3.3.2 Use when adding signals

When used from the 'Add Signal' dialog, a fuller description of the signal that will be created can be entered here.

1.3.3.3 Use when modifying or copying signals

Enables the user to change the description for the signal

1.3.4 Add Range

Check this box if you want to add a range of local signals numbered serially, rather than a single signal. When modifying a signal the 'Add Range' controls are disabled. See the 'Using Format' topic for information on different serial numbering systems available.

1.3.5 From

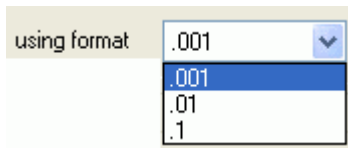
The starting number for a range of signals that will be created. This control is disabled when modifying a signal.

1.3.6 To

The end number for a range of signals that will be created. This control is disabled when modifying a signal.

1.3.7 Using format

A drop-down list that determines the format for the serial number part of a range of signals. This control is only available when adding signals.



1.3.7.1 Range Format (.001)

If this option is selected, the range of signals will be created with two leading zeros, so the first signal with a name of 'MYANALOG' with a range from 1 to 999, starting at 1 would be 'MYANALOG.001'. The last signal in the range would be 'MYANALOG.999'. If the digits required for the range exceeds 3 (e.g. 1000), the adjustment will be made automatically.

1.3.7.2 Range Format (.01)

With this option selected, the range of signals will be created with a single leading zero, so the first signal with a name of 'MYANALOG' with a range from 1 to 99, starting at 1 would be 'MYANALOG.01'. The last signal in the range would be 'MYANALOG.99'. If the number of digits required for the range exceeds 2 (e.g. 100), the adjustment will be made automatically.

1.3.7.3 Range Format (.1)

With this option selected, the range of signals will be created with no leading zeros, so the first signal with a name of 'MYANALOG' with a range from 1 to 100, starting at 1 would be 'MYANALOG.1'. The last signal in the range would be 'MYANALOG.100'.

1.3.8 Access area

The Access Area for the signal. This can be changed when modifying the signal.

1.3.9 Plant area

The Plant Area for the signal. This can be changed when modifying the signal.

1.3.10 Manual inhibit

When checked, the signal's 'ManualInhibit' attribute is set to True.

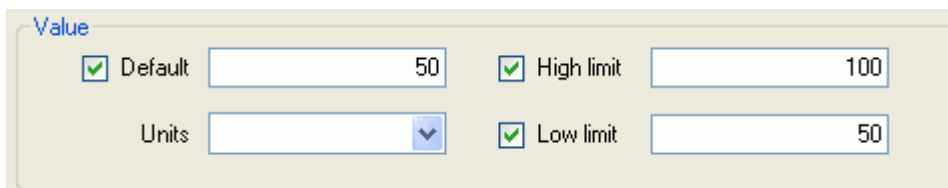
1.3.11 Alarm inhibit

When checked, the signal's 'AlarmInhibit' attribute is set to True.

1.3.12 Value

The controls in this section vary depending on the type of signal selected. The options below represent the signal types that can be selected.

- Analog



- Digital

Value

Default On text

Off text

- Multidigital

Value

Default State text

- String

Value

Default

- Time

Value

Default

1.3.12.1 Analog Value

Both Analog and Integer type signals have this same section for defining the default value, units and high and low limits.

Value

Default High limit

Units Low limit

1.3.12.1.1 Default value

The default value of the signal. This value can be modified at any time.

1.3.12.1.2 Units

The designated units of the signal. This value can be modified at any time.

1.3.12.1.3 High limit

The highest possible value of the signal. OpenEnterprise will not allow any client to increase the signal's value beyond this.

The 'High Limit' value can be modified at any time by selecting the signal and using the [Modify] button or by using the Properties dialog for the signal.

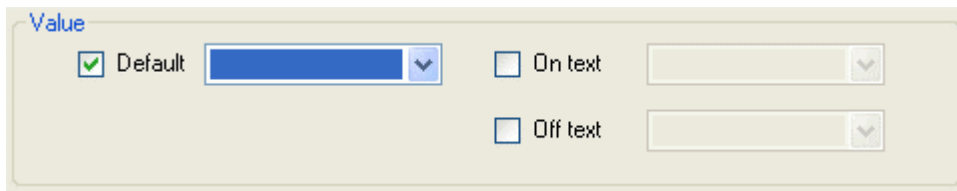
1.3.12.1.4 Low limit

The lowest possible value of the signal. OpenEnterprise will not allow any client to decrease the signal's value below this.

The 'Low Limit' value can be modified at any time by selecting the signal and using the [Modify] button or by using the Properties dialog for the signal.

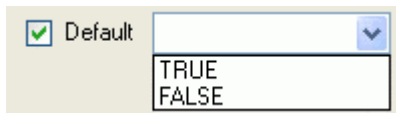
1.3.12.2 Digital Value

The value section of the Add Signal and Modify Signal dialog has these controls.



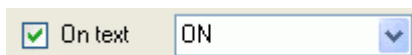
1.3.12.2.1 Digital Default

One of the two values in the drop-down list must be selected for the default value of a Digital signal.



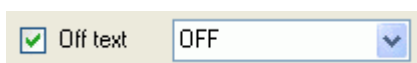
1.3.12.2.2 On Text

Type the text that can be used in displays to indicate the ON condition here.



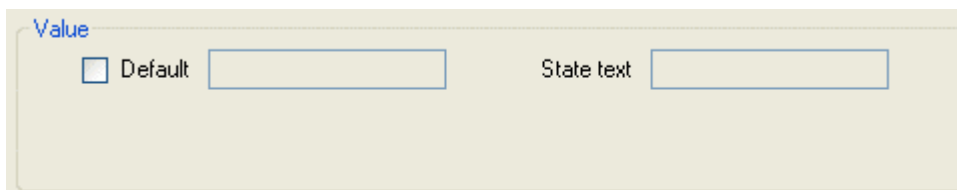
1.3.12.2.3 Off Text

Type the text that can be used in displays to indicate the OFF condition here.



1.3.12.3 Multidigital Value

Multidigital signal types have these controls in the Value section of the Add Signal and Modify Signal dialog.



1.3.12.3.1 Default

The default value for a Multidigital signal type can have the following values:-

- Multidigital2 - an integer from 1 to 4
- Multidigital3 - an integer from 1 to 8
- Multidigital4 - an integer from 1 to 16

Default

1.3.12.3.2 State Text

This is the text that can be used to describe the default for the current state of the multidigital signal.

State text

1.3.12.4 String Value

String signals only have one default control. This is the signal value, which is a string.

Value

Default

1.3.12.4.1 Default

The default value of the string signal is entered here as text.

Default

1.3.12.5 Time Value

Time signals have a default combined date/time field.

Value

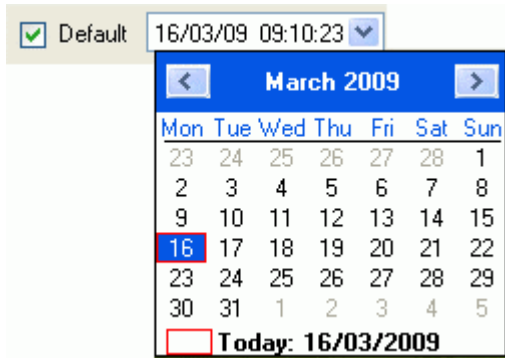
Default

1.3.12.5.1 Time Value Default

The default value for a Time signal can be entered using a calendar control for the date, and by typing the time directly in..

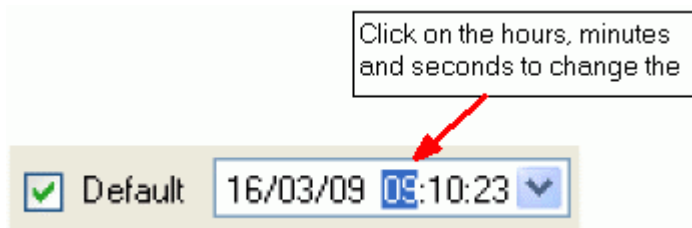
1.3.12.5.1.1 Calendar

A calendar control appears when the default field is selected. The default date is selected from the calendar.



1.3.12.5.1.2 Direct Entry

The default time can be entered directly into the control.



1.3.13 Apply and OK buttons

There is a small difference in the operation of these buttons. They both initiate the process of inserting, copying or modifying a signal depending on the context. However, if the [Apply] button is selected, the dialog remains open, whereas if the [OK] button is selected, the currently open dialog is closed also.

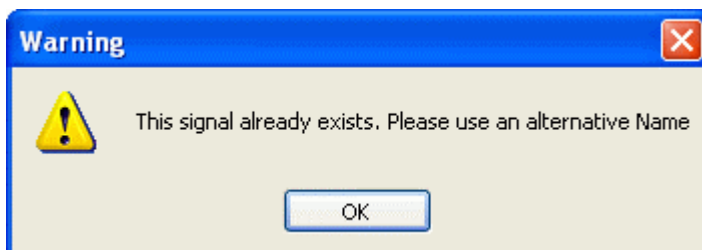
1.3.13.1 Modifying

The [Apply] and [OK] buttons are only enabled after a change has been made on the 'Modify Signal' dialog.

1.3.13.2 Copying

When the name has been changed the [Apply] and [OK] buttons become enabled, indicating that the user can select them to initiate the copying of the signal.

When the user is copying a signal, if the new name that they provided in the 'Name' field is found to be already in the database, the user is warned of this and the copy is aborted.

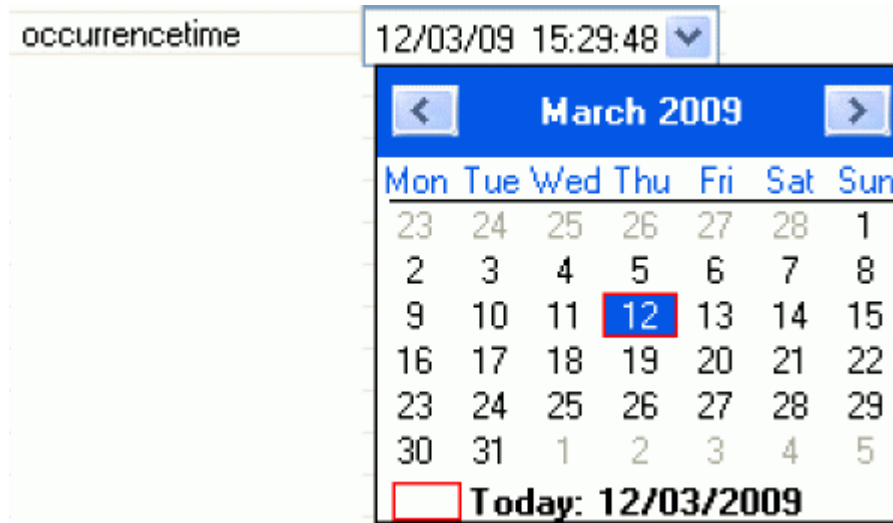


1.4 Signal Properties

This dialog enables the user to view and modify most attributes of the selected signal.

1.4.2.2 Date/Time attribute values

Display a calendar when selected. The user can select the desired date and time.



1.4.2.3 Realtime, Integer and String attribute values

These are just text controls into which the desired value or string is typed.



1.4.3 Scroll bar

The user can use the scroll bar to see any extra attributes.

1.4.4 Re-size dialog

The dialog can be re-sized by clicking and dragging with the mouse on the bottom left corner.

1.5 Modify Signal

Enables the user to modify the selected signal's value or most of its configuration details.

Modify Signal

Identification

Name: EPSIGNAL.004 Type: Analog

Description:

Add range

From: 1 to 10 using format: .001

Areas

Access area: ALL Plant area: ALL

Status

Manual inhibit: Alarm inhibit:

Value

Default: 50 High limit: 100

Units: Low limit: 0

Apply OK Cancel Help

1.5.1 Name

When modifying a signal, the Name attribute cannot be changed. The control is disabled.

1.5.2 Type

When modifying or copying a signal, the Type cannot be changed. The control is disabled.

1.5.3 Description

A string that provides a fuller description of the signal.

1.5.3.1 Use in Main Interface

Filters the signal query on description attribute when used from the main interface. The (*) or (%) wildcard characters can be used interchangeably. The wildcard character forces all text before the wildcard to be ignored if it appears at the beginning of the string, or all text after it if it appears at the end. Wildcard characters cannot be used in the middle of the string.

1.5.3.2 Use when adding signals

When used from the 'Add Signal' dialog, a fuller description of the signal that will be created can be entered here.

1.5.3.3 Use when modifying or copying signals

Enables the user to change the description for the signal

1.5.4 Add Range

When modifying a signal, all signal Range controls are disabled.

1.5.5 Access area

The Access Area for the signal. This can be changed when modifying the signal.

1.5.6 Plant area

The Plant Area for the signal. This can be changed when modifying the signal.

1.5.7 Manual inhibit

When checked, the signal's 'ManualInhibit' attribute is set to True.

1.5.8 Alarm inhibit

When checked, the signal's 'AlarmInhibit' attribute is set to True.

1.5.9 Value

The controls in this section vary depending on the type of signal selected. The options below represent the signal types that can be selected.

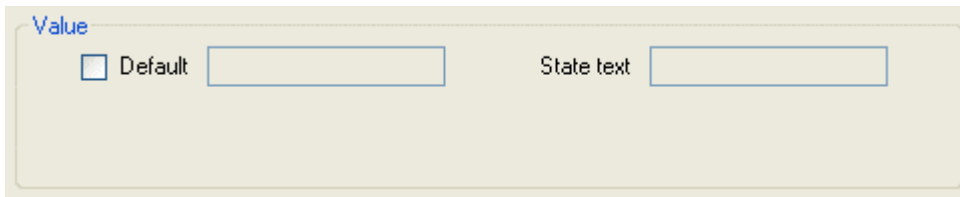
- Analog

The screenshot shows a 'Value' control panel for an analog signal. It features four input fields, each with a checked checkbox to its left. The first row contains 'Default' with a value of 50 and 'High limit' with a value of 100. The second row contains 'Units' with a dropdown arrow and 'Low limit' with a value of 50.

- Digital

The screenshot shows a 'Value' control panel for a digital signal. It features three input fields, each with a checkbox to its left. The first row contains 'Default' with a dropdown arrow and 'On text' with a dropdown arrow. The second row contains 'Off text' with a dropdown arrow.

- Multidigital



- String

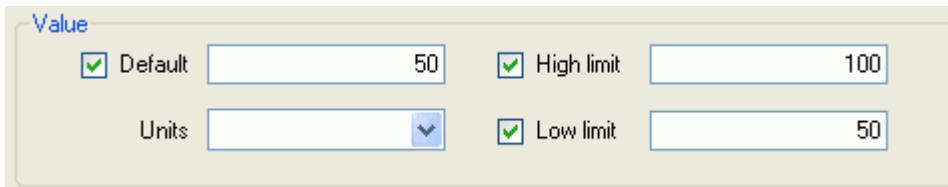


- Time



1.5.9.1 Analog Value

Both Analog and Integer type signals have this same section for defining the default value, units and high and low limits.



1.5.9.1.1 Default value

The default value of the signal. This value can be modified at any time.

1.5.9.1.2 Units

The designated units of the signal. This value can be modified at any time.

1.5.9.1.3 High limit

The highest possible value of the signal. OpenEnterprise will not allow any client to increase the signal's value beyond this.

The 'High Limit' value can be modified at any time by selecting the signal and using the [Modify] button or by using the Properties dialog for the signal.

1.5.9.1.4 Low limit

The lowest possible value of the signal. OpenEnterprise will not allow any client to decrease the signal's value below this.

The 'Low Limit' value can be modified at any time by selecting the signal and using the [Modify] button or by using the Properties dialog for the signal.

1.5.9.2 Digital Value

The value section of the Add Signal and Modify Signal dialog has these controls.

Value

Default

On text

Off text

1.5.9.2.1 Digital Default

One of the two values in the drop-down list must be selected for the default value of a Digital signal.

Default

TRUE

FALSE

1.5.9.2.2 On Text

Type the text that can be used in displays to indicate the ON condition here.

On text

1.5.9.2.3 Off Text

Type the text that can be used in displays to indicate the OFF condition here.

Off text

1.5.9.3 Multidigital Value

Multidigital signal types have these controls in the Value section of the Add Signal and Modify Signal dialog.

Value

Default

State text

1.5.9.3.1 Default

The default value for a Multidigital signal type can have the following values:-

- Multidigital2 - an integer from 1 to 4
- Multidigital3 - an integer from 1 to 8
- Multidigital4 - an integer from 1 to 16

Default

1.5.9.3.2 State Text

This is the text that can be used to describe the default for the current state of the multidigital signal.

State text

1.5.9.4 String Value

String signals only have one default control. This is the signal value, which is a string.

Value

Default

1.5.9.4.1 Default

The default value of the string signal is entered here as text.

Default

1.5.9.5 Time Value

Time signals have a default combined date/time field.

Value

Default

1.5.9.5.1 Time Value Default

The default value for a Time signal can be entered using a calendar control for the date, and by typing the time directly in..

1.5.9.5.1.1 Calendar

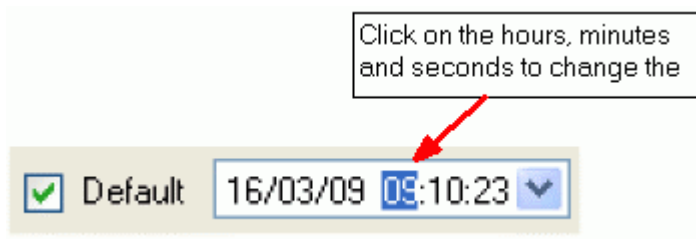
A calendar control appears when the default field is selected. The default date is selected from the calendar.

Default

March 2009						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
23	24	25	26	27	28	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5
Today: 16/03/2009						

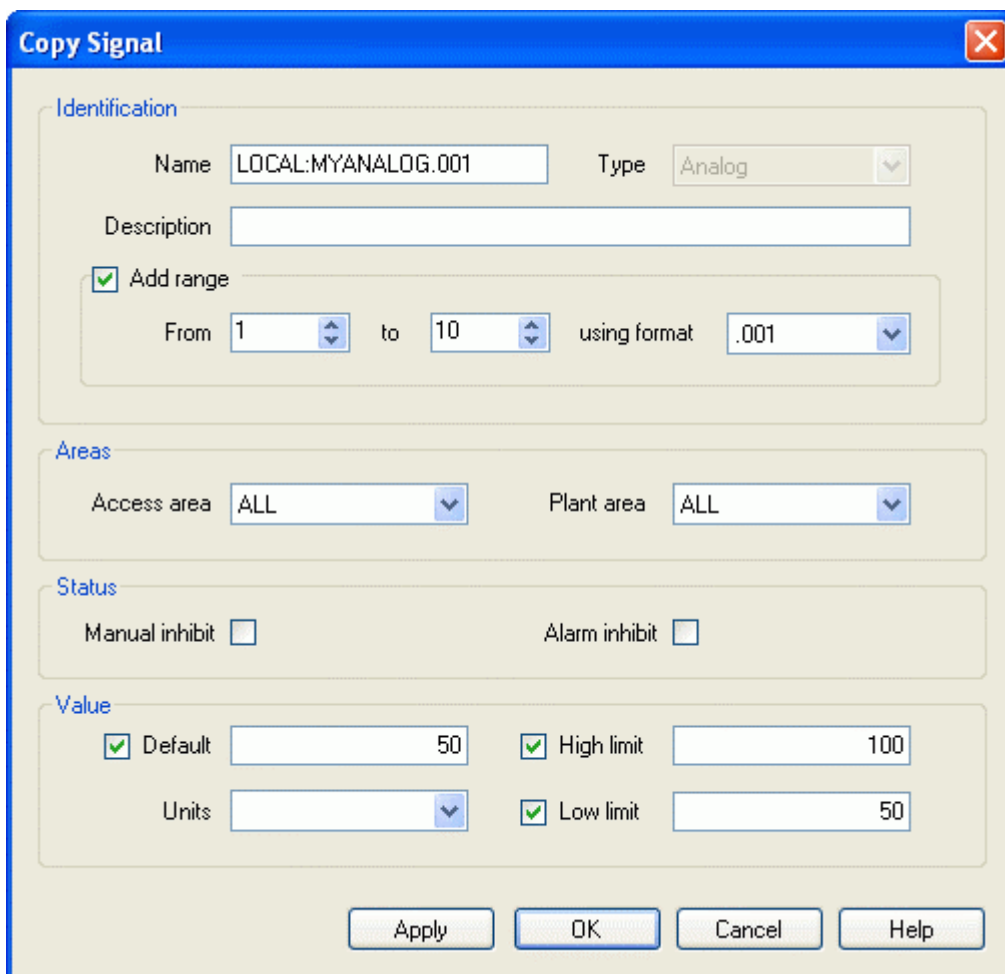
1.5.9.5.1.2 Direct Entry

The default time can be entered directly into the control.



1.6 Copy Signal

This dialog enables the user to create a new signal or range of signals from a signal which is selected from the Signal List. The user must change the name so that the new signal name is unique, but all other attributes can be re-used.



1.6.1 Name

The name must be changed when copying a signal because the name has to be unique. Until the user modifies the signal name, the [Apply] and [OK] buttons are disabled. When the name is modified, these buttons become enabled.

1.6.2 Type

When modifying or copying a signal, the Type cannot be changed. The control is disabled.

1.6.3 Description

A string that provides a fuller description of the signal.

1.6.3.1 Use in Main Interface

Filters the signal query on description attribute when used from the main interface. The (*) or (%) wildcard characters can be used interchangeably. The wildcard character forces all text before the wildcard to be ignored if it appears at the beginning of the string, or all text after it if it appears at the end. Wildcard characters cannot be used in the middle of the string.

1.6.3.2 Use when adding signals

When used from the 'Add Signal' dialog, a fuller description of the signal that will be created can be entered here.

1.6.3.3 Use when modifying or copying signals

Enables the user to change the description for the signal

1.6.4 Add Range

Check this box if you want to add a range of local signals numbered serially, rather than a single signal. When modifying a signal the 'Add Range' controls are disabled. See the 'Using Format' topic for information on different serial numbering systems available.

1.6.5 From

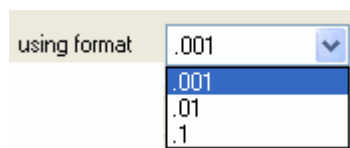
The starting number for a range of signals that will be created. This control is disabled when modifying a signal.

1.6.6 To

The end number for a range of signals that will be created. This control is disabled when modifying a signal.

1.6.7 Using format

A drop-down list that determines the format for the serial number part of a range of signals. This control is only available when adding signals.



1.6.7.1 Range Format (.001)

If this option is selected, the range of signals will be created with two leading zeros, so the first signal with a name of 'MYANALOG' with a range from 1 to 999, starting at 1 would be 'MYANALOG.001'. The last signal in the range would be 'MYANALOG.999'. If the digits required for the range exceeds 3 (e.g. 1000), the adjustment will be made automatically.

1.6.7.2 Range Format (.01)

With this option selected, the range of signals will be created with a single leading zero, so the first signal with a name of 'MYANALOG' with a range from 1 to 99, starting at 1 would be 'MYANALOG.01'. The last signal in the range would be 'MYANALOG.99'. If the number of digits required for the range exceeds 2 (e.g. 100), the adjustment will be made automatically.

1.6.7.3 Range Format (.1)

With this option selected, the range of signals will be created with no leading zeros, so the first signal with a name of 'MYANALOG' with a range from 1 to 100, starting at 1 would be 'MYANALOG.1'. The last signal in the range would be 'MYANALOG.100'.

1.6.8 Manual inhibit

When checked, the signal's 'Manuallnhibit' attribute is set to True.

1.6.9 Alarm inhibit

When checked, the signal's 'AlarmInhibit' attribute is set to True.

1.6.10 Value

The controls in this section vary depending on the type of signal selected. The options below represent the signal types that can be selected.

- Analog

The screenshot shows a control panel titled "Value" for an analog signal. It contains four input fields, each with a checked checkbox to its left. The fields are: "Default" with the value "50", "High limit" with the value "100", "Units" with a dropdown arrow, and "Low limit" with the value "50".

- Digital

The screenshot shows a control panel titled "Value" for a digital signal. It contains three input fields. The first is "Default" with a dropdown menu. The second is "On text" with a dropdown menu and an unchecked checkbox to its left. The third is "Off text" with a dropdown menu and an unchecked checkbox to its left.

- Multidigital

The screenshot shows a control panel titled "Value" for a multidigital signal. It contains two input fields: "Default" with an unchecked checkbox to its left, and "State text" with an unchecked checkbox to its left.

- String

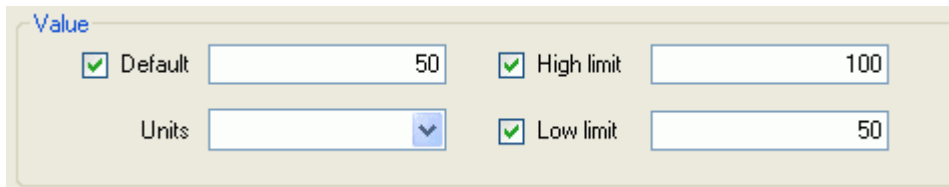
The screenshot shows a control panel titled "Value" for a string signal. It contains one input field: "Default" with an unchecked checkbox to its left.

- Time



1.6.10.1 Analog Value

Both Analog and Integer type signals have this same section for defining the default value, units and high and low limits.



1.6.10.1.1 Default value

The default value of the signal. This value can be modified at any time.

1.6.10.1.2 Units

The designated units of the signal. This value can be modified at any time.

1.6.10.1.3 High limit

The highest possible value of the signal. OpenEnterprise will not allow any client to increase the signal's value beyond this.

The 'High Limit' value can be modified at any time by selecting the signal and using the [Modify] button or by using the Properties dialog for the signal.

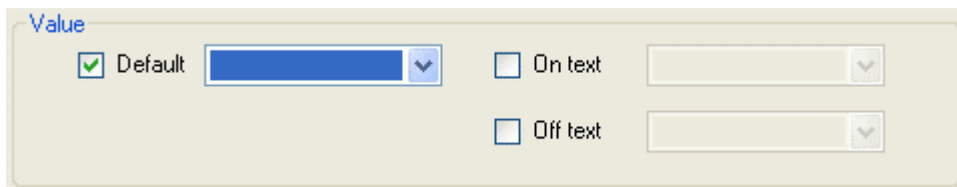
1.6.10.1.4 Low limit

The lowest possible value of the signal. OpenEnterprise will not allow any client to decrease the signal's value below this.

The 'Low Limit' value can be modified at any time by selecting the signal and using the [Modify] button or by using the Properties dialog for the signal.

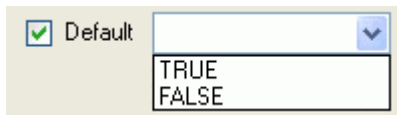
1.6.10.2 Digital Value

The value section of the Add Signal and Modify Signal dialog has these controls.



1.6.10.2.1 Digital Default

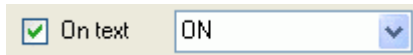
One of the two values in the drop-down list must be selected for the default value of a Digital signal.



Default

1.6.10.2.2 On Text

Type the text that can be used in displays to indicate the ON condition here.



On text

1.6.10.2.3 Off Text

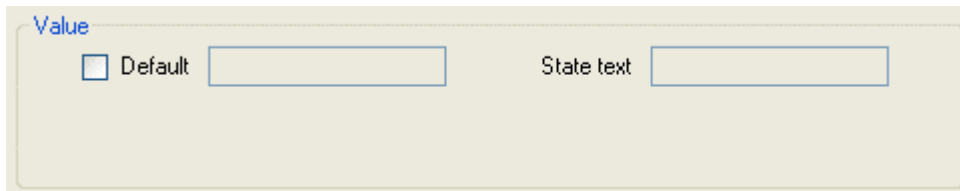
Type the text that can be used in displays to indicate the OFF condition here.



Off text

1.6.10.3 Multidigital Value

Multidigital signal types have these controls in the Value section of the Add Signal and Modify Signal dialog.



Value
 Default
State text

1.6.10.3.1 Default

The default value for a Multidigital signal type can have the following values:-

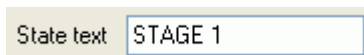
- Multidigital2 - an integer from 1 to 4
- Multidigital3 - an integer from 1 to 8
- Multidigital4 - an integer from 1 to 16



Default

1.6.10.3.2 State Text

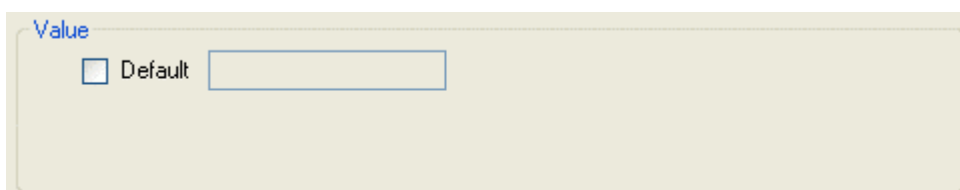
This is the text that can be used to describe the default for the current state of the multidigital signal.



State text

1.6.10.4 String Value

String signals only have one default control. This is the signal value, which is a string.



Value
 Default

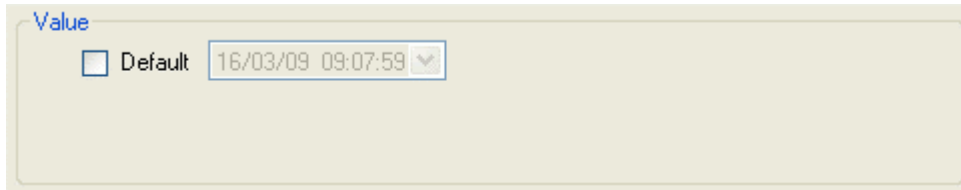
1.6.10.4.1 Default

The default value of the string signal is entered here as text.



1.6.10.5 Time Value

Time signals have a default combined date/time field.

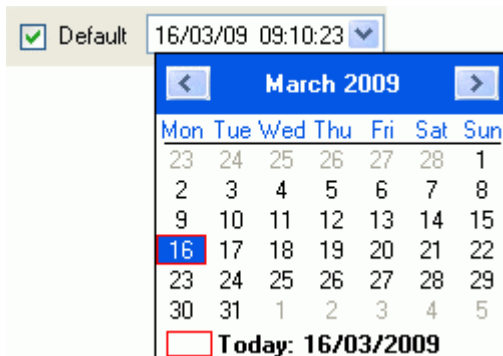


1.6.10.5.1 Time Value Default

The default value for a Time signal can be entered using a calendar control for the date, and by typing the time directly in..

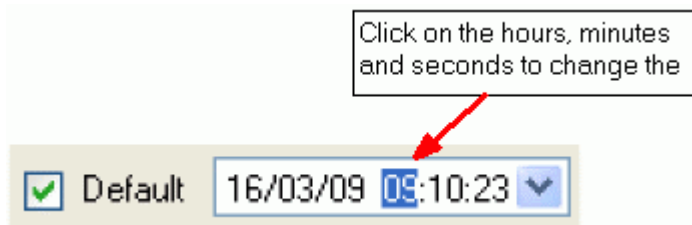
1.6.10.5.1.1 Calendar

A calendar control appears when the default field is selected. The default date is selected from the calendar.



1.6.10.5.1.2 Direct Entry

The default time can be entered directly into the control.



1.6.11 Apply and OK buttons

There is a small difference in the operation of these buttons. They both initiate the process of inserting, copying or modifying a signal depending on the context. However, if the [Apply] button is selected, the dialog remains open, whereas if the [OK] button is selected, the currently open dialog is closed also.

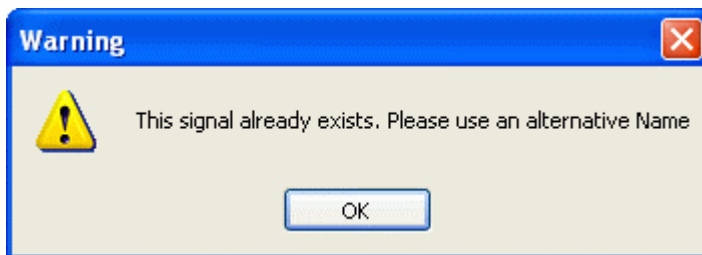
1.6.11.1 Modifying

The [Apply] and [OK] buttons are only enabled after a change has been made on the 'Modify Signal' dialog.

1.6.11.2 Copying

When the name has been changed the [Apply] and [OK] buttons become enabled, indicating that the user can select them to initiate the copying of the signal.

When the user is copying a signal, if the new name that they provided in the 'Name' field is found to be already in the database, the user is warned of this and the copy is aborted.



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Reference Guide

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