OpenEnterprise Reporting Configuration Reference Guide (V2.83)
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1 Report Configuration Tool

1.1 Report Configuration Overview

The OpenEnterprise Report Configuration Tool is the main user interface into the OpenEnterprise Reporting system. It allows the configuration of reports through an intuitive and simple user interface.

1.1.1 How Does Reporting Work?

OpenEnterprise Reporting works by helping you to create a Report template in Excel that will extract the data you need from the OpenEnterprise database, and present it on the page the way you want it. You can then create a Schedule for the Report, and publish it as an XLS, PDF, CSV, XML or HTML file. You can also opt to Print the Report to an available printer. Reports in File format can be delivered in a variety of ways (e.g. copy the file to a directory, attach the file to an email or copy it to an FTP Server). All these requirements are brought together by the OpenEnterprise Report Configuration Tool to create OpenEnterprise Reports. For a more detailed explanation of how OpenEnterprise Reporting works, and how to create reports from scratch, see the Reporting Overview help file.

1.2 Starting the Report Configuration Tool

The Report Configuration Tool is part of the OpenEnterprise Toolbox, but can also be run from a Windows command line.

1.2.1 From the Toolbox

The Report Configuration Tool can be run from the OpenEnterprise Toolbox by following this link from the Windows Start button:-

Start>Programs>OpenEnterprise>Toolbox

Then start the Reporting Configuration Tool in the usual way by double clicking on its icon within the Toolbox. It will take its connection parameters and login credentials from those which are currently applied to the Toolbox.

1.2.2 From the 'Run' Dialog

It can also be run from the Windows 'Run' dialog (Start>Run) with the following parameters:-

ReportConfigurationTool.exe [-sDataservice] [-uUsername <-pPassword>]

![Run Dialog](image)
Where: [denotes an optional parameter], <denotes a required parameter>

DataService is the data-service of the database to connect to. This can be a standalone or fault-tolerant dataservice, with or without connection options. Default rtrdb1.

Username is the username used for any database logons. Must be used in conjunction with the –p parameter. No default value.

Password is the password used for any database logons. Must be used in conjunction with the –u parameter. No default value.

If the username and password are not defined in this command line, a Login dialog will open.

You will need to provide the username and password details on this dialog to log on to the database.

1.2.3 From a Shortcut

A shortcut can be set up on the Windows Desktop or from an OpenEnterprise Custom menu which starts the Reporting Configuration Tool. This requires the path to the executable followed by the necessary parameters:

(by default "C:\Program Files\Bristol\OpenEnterprise\bin\ReportConfigurationTool.exe" - soeserv1:rtrdb1 -uRSmith -prsmith)

2 Report Configuration Main Interface

The Report Configuration Tool's Main Interface has a left and right pane. The left pane contains a Tree that displays Configured Reports, Templates, Schedules, Formats and Recipients, each configured type of object under its own parent node. The right pane displays details about the object selected in the left pane.

To create an object, right click on one of the parent nodes in the left pane and select the 'New...' context menu. There are other options on the context menus depending on what object you select.
3 Menus

The menu bar on the Report Configuration main interface has three options. See the appropriately named headings below for further help.

3.1 File Menu

The File menu has two options which enable Report configuration to be saved, and exiting of the Report Configuration Tool.

3.1.1 Export

This option will open the Export File Dialog, which will export the Reporting configuration to an SQL script file.
3.1.2 Export File Dialog

This dialog enables you to accept or change the default file name and location for the SQL Export file.

3.1.2.1 File Name

You can accept the default file name and location that is already in the name field, you can change either by typing them directly into this field or using the Browse button to the right of the name field.

3.1.2.2 Browse...

Displays a File Open dialog in the default OpenEnterprise Data directory that was defined in the File Name field of the Export File dialog.

You can change the file name by typing the new name into the File Name: field of the File Open dialog, and change the directory by browsing for a new one. When you select the [OK] button on the File Open dialog, the new name and location for the Export file will be copied to the File Name: field of the Export File dialog.

3.1.3 Exit

This option closes the Report Configuration Tool.

3.2 Edit Menu

The Edit Menu has enables you to configure a new Template, Schedule, Format, Recipient or Report. It also allows you to configure the Email Server for Email type recipients, and to define the default directory for creating Report Templates.

3.2.1 New Template

Opens the Template Wizard so that you can create a new Template.
3.2.2 New Schedule
Opens the Schedule Wizard so that you can create a new Schedule.

3.2.3 New Format
Opens the Format Wizard so that you can create a new Format.

3.2.4 New Recipient
Opens the Recipient Wizard so that you can create a new Recipient.

3.2.5 New Report
Opens the Report Wizard so that you can create a new Report.

3.2.6 EMail Server Setup
This dialog appears when the 'Email Server' option is selected from the 'Edit' menu. It enables you to select a configured Email Server to deliver Reports to Email Recipients.

3.2.6.1 Mail Server List
Any Mail Servers that you have configured are listed here.

3.2.6.2 Add Mail Server
Click this button if you want to add a Mail Server to the list. The Mail Server Configuration dialog will be opened.

3.2.6.3 Modify Mail Server
Click this button if you want to modify a Mail Server selected from the list. The Mail Server Configuration dialog will be opened.

3.2.6.4 Selected Mail Server
The name of the Mail Server that has been selected from the Mail Server list is displayed here.
3.2.6.5 Mail Server Configuration

This dialog enables you to configure the Mail Server. Click the hotspots on the image below for further information on the features of this dialog.

3.2.6.5.1 Mail Server Name

The name of the Mail Server configuration. This name is not used to connect to the Mail Server. In modify mode, this field is disabled.

3.2.6.5.2 Mail Server Description

Type a more detailed description of the Mail Server configuration here, if you wish.
3.2.6.5.3 Network Name or Address
This is the network name or IP address that is used to connect to the Mail Server. If an IP address is defined, then it must be in standard IP format (e.g. 211.1.0.12).

3.2.6.5.4 SMTP Port Number
The SMTP port number of the Mail Server. The default is already set at 25.

3.2.6.5.5 Test Email Setup
This button will open the Email Recipient dialog, where you can enter a valid email address for the email test.

3.2.6.5.6 EMail Originator
Type in the name of the originator of the email here. All email sent by the OpenEnterprise Reporting system will be identified as being from this user.

3.2.6.5.7 Originator Email Address
Type the email address of the Originator of the Email test here. All email sent by the OpenEnterprise Reporting system will be identified as being from this email address.

3.2.6.5.8 Email Authentication Required
If connection to the Mail Server requires network Domain Server authentication, check this button to enable the authentication name and password fields.

3.2.6.5.9 Authentication Name
Enter the name of a user known to Domain Server to which the Mail Server belongs here.

3.2.6.5.10 Authentication Password
Type the password of the authentication user here.

3.2.6.5.11 POP3 Tab Disabled
The POP3 tab is currently disabled, and it is not possible to configure the POP3 Mail Server for receiving email.

3.2.6.5.12 Email Recipient Dialog
This dialog enables you to enter a valid email address for the email test. Providing the Mail Server setup is valid, the email recipient defined here will receive a test email from the Report Configuration Tool.

3.2.6.5.12.1 Email Address
Type the email address of the intended Recipient of the Email test.
3.2.7 File Transfer Server

3.2.7.1 File Transfer Server

In order to determine the location of the Report Server, the Report Selector needs to know the Report Server name and the TCP/IP port number through which the Report file can be requested. Meaningful default values are defined at installation time, but in certain circumstances these values may need to be changed.

Type the name of the computer(s) and port number(s) on which the Report Server resides. For a redundant pair use the redundant format dataservice string, as shown in this example.

If you experience problems downloading reports from a workstation it is better here to use the actual domain name of the server(s) on which the Report Server was installed, rather than an alias name used in the hosts file.

3.2.7.2 Report Server String

The name of the computer(s) and port number(s) on which the Report Server resides. For a redundant pair use the redundant format dataservice string, as shown in this example.

It is better here to use the actual domain name of the server(s) on which the Report Server was installed as a default value, rather than an alias name used in the hosts file.

3.2.7.3 File Transfer Port

The name or port number through which the File Transfer components will communicate.

3.2.8 Report Template Options

Selecting the Options menu enables you to configure the directory in which the Report Configuration Tool will create new Templates. You can type a new directory directly into the Directory field or use the Browse button to open a Directory browser window.
3.2.8.1 Template File Location
Type an alternate file location where Report Templates will be stored when they are created. You can also browse for a location by selecting the [Browse] button.

3.2.8.2 Browse for location
This button opens a directory browser window, which also provides the ability to create a directory.

3.3 Help Menu
This menu has options that open up this help file and open an 'About' box, which provides OpenEnterprise version information and email addresses for support queries.

3.3.1 Report Configuration Tool Help
Selection of this option will open this help file.

3.3.2 About Report Configuration Tool
This option opens an 'About' box, which provides information on the OpenEnterprise version on one tab, and on the other tab, address, fax, phone and email information, so you can contact Bristol's OpenEnterprise support team.

4 Tree View Window
The left pane of the Report Configuration Tool contains a tree view of all Reporting objects. The parent nodes describe the objects that can be created underneath the node. Reporting objects can be created by right clicking on each parent node (except for the initial 'Report Configuration' node) and selecting the context menu that begins with 'New...'. The parent nodes from which Reporting objects can be created are shown in the image below.
Configured objects under these parent nodes have their own context menus, which enable the objects to be modified, deleted, removed from their associated parent object or disabled, depending on the context in which they are selected.

4.1 Parent Reporting Node

This is the Parent Node for all Reporting related objects. This is the only parent node that has no context menu for creating new objects. All other nodes stem from this one.

4.2 The Configured Reports Node

This is the parent node for all fully configured reports. In order to create a new Report configuration you must first have created one or more Report Template objects. If this is not the case, then a message will be shown when you attempt to create a new Report.

4.2.1 Creating New Reports

Right click on this node and select the 'New Report' context menu to open the Report Configuration Wizard, which allows you to create a new Report.

4.2.2 Configure Created Reports

When reports have been created, they will be added under this node. You will be able to modify or delete them by accessing the context menu that appears when you right click on the node. See the 'Configured Report Nodes' topic for help on modifying created reports.

4.2.3 Report Sub Nodes

Reports must be associated with at least one report template, and may be associated with one or more schedules, formats and recipients. These associated objects are added as sub nodes under the report objects they are associated with as well as being seen as nodes under their respective parent node. See the 'Report Sub Nodes' topic for further information.

4.2.4 Created Report Nodes

Each Report created must have a unique name. All fully configured Reports will also display their own child nodes, which represent the Template and any Schedules, Formats or Recipients associated with the Report.

The minimum configuration required in order to produce a Report in OpenEnterprise is a configured Report, which must have a configured Report Template. This will create a Report in Excel format (XLS) in the directory specified for the Report, or if that is undefined, in the working directory of the Report Scheduler. Right click a configured Report node to display the context menu.
4.2.4.1 Modify Report


4.2.4.2 Delete Report

A message will ask for confirmation of the Report's deletion.

Select [Yes] to continue with the deletion, [No] to abort the deletion.

4.2.4.3 Disable Report

The selected Report is disabled. A red cross will appear over the object in the Tree view window, denoting that it is disabled. The object will now have an Enable option on the context menu in place of the Disable option. This Report will not run until it is enabled again by selecting the Enable option on its context menu from the Tree view window.

4.2.4.4 Test Report

Selecting this item opens the Test Report dialog, which enables you to test any Report. The Report Scheduler must be running.

4.2.4.5 Publish Report

This option provides the ability to publish a selected report for any date/time. When selected, the Report Generation wizard will start up. This enables the user to define the time or schedule, alias values, format and recipients for the published report.

4.2.5 Test Report Dialog

Make sure that the Report Scheduler is running before clicking the [Test] button on this dialog. Click the hotspots on the image below for further information on the features of this dialog.
4.2.5.1 Selected Report Name

The name of the Report that was selected for testing.

4.2.5.2 Test Report Button

The Report selected will be tested. The text on the dialog informs you of progress. If the Report test is successful you will see the following messages:-

- Opening Template
- Running Report
- Publishing to...
- The test of the selected Report Configuration has completed successfully...

If the Report test fails, the final message on the dialog will say:-

- An Error has occurred while testing the Report Configuration...This will be followed by the details of the failure

4.2.5.3 Close

The Test Report dialog will be closed.

4.2.5.4 Help Button

Context sensitive help. Clicking on this button on a dialog will open the help file at the correct page. You can also receive context sensitive help by pressing the [F1] key on the computer keyboard.

4.3 Report Sub Nodes

All fully Configured Reports will have associations to some or all of the following objects:-

- A single Template node.
- At least one Schedule node.
- One or More Format nodes.
• One or more Recipient nodes.

These associated objects appear as sub nodes of the Report with which they have an association. These sub nodes have context menus that appear when they are selected and the right mouse button is pressed.

4.3.1 Template Sub Nodes

Every Report must be associated with a Report Template. Right click the Template sub node of a Report to select the following options from the context menu.

4.3.1.1 Modify

When selected, the Template Configuration General page is displayed. From here you can change the Description given for the Template, or edit the Template by clicking on the [Edit] button. The following features of a configured Template cannot be edited:-

• The Template Name

• Any Query's Dataservice

• Any Query's Dataset

Anything else to do with the Report Template can be modified.

4.3.1.2 Delete

A message will inform you that Report Templates associated with Reports cannot be deleted.

4.3.2 Schedule Sub Nodes

Each Report must be associated with at least one Schedule. Right click the Schedule sub node to select the following options from the context menu.

4.3.2.1 Modify

The Property pages of the Schedule will be opened in modify mode. You can modify everything except the Schedule name and type.
4.3.2.2 Delete

A message will inform you that the Schedule is currently being used by any Reports that it is associated with, and ask for confirmation of its deletion.

Select [Yes] to continue with the deletion, [No] to abort the deletion.

4.3.2.3 Remove From Report

The selected Schedule will be immediately removed from association with the parent Report, but is not deleted.

4.3.2.4 Disable

The selected Schedule is disabled. A red cross will appear over the object in the Tree view window, denoting that it is disabled. The object will now have an Enable option on the context menu in place of the Disable option. Any Reports also using this Schedule will not run until the Schedule is enabled once more.

4.3.2.5 Publish Report

This option provides the ability to publish a selected report for any date/time. When selected, the Report Generation wizard will start up. This enables the user to define the time or schedule, alias values, format and recipients for the published report.

4.3.3 Format Sub Nodes

Formats define the format in which a Report is published. A Report can be associated with one or more Formats. If a Configured Report does not have a defined Report Format, it will be created as an Excel file (XLS) in the location specified for the Report, if any, or the working directory of the Report Scheduler. Right click the Format sub node to select the following options from the context menu.

4.3.3.1 Modify

The Property pages of the Format will be opened in modify mode. You can modify everything except the Format name.
4.3.3.2 Delete

When you select this option, a message appears asking you to confirm the deletion.

Select [Yes] to continue with the deletion, [No] to abort the deletion.

4.3.3.3 Remove From Report

The selected Format will be immediately removed from association with the parent Report, but is not deleted.

4.3.3.4 Disable

The Format will be disabled. A red cross will appear over the object in the Tree view window denoting that it is disabled. The object will now have an Enable option on the context menu in place of the Disable option. Reports using this Format will not be published until the Format is enabled once again.

4.3.4 Recipient Sub Nodes

Recipients define how and where a published Report is delivered. Recipient objects are assigned directly to Format objects, the logic being that once a published Format has been configured for a Report, it can be delivered to one or more Recipients. Right click a Recipient sub node which is under its associated Format node to select the following options from the context menu.

4.3.4.1 Modify

The Property pages of the Recipient will be opened in modify mode. You can modify everything except the Recipient name and Delivery Type.

4.3.4.2 Delete

When you select this option, a message appears asking you to confirm the deletion.
Select [Yes] to continue with the deletion, [No] to abort the deletion.

4.3.4.3 Remove From Format

The selected Recipient will be immediately removed from association with the parent Format, but is not deleted.

4.3.4.4 Disable

The Recipient will be disabled. A red cross will appear over the object in the Tree view window denoting that it is disabled. The object will now have an Enable option on the context menu in place of the Disable option. This Report Recipient will not be able to deliver a published Report until it is enabled once again.

4.4 Templates Node

Report Template Files are what define the data requested, and how that data is displayed within a Published Report. A Report Template object is used to link the Report Template File to one or more Report configurations.

4.4.1 Creating Report Templates

Right click on this node and select the 'New Report Template' context menu to open the Report Template Wizard, which allows you to create a new Report Template.

4.4.2 Configure Created Report Templates

When report templates have been created, they will be added under this node. You will be able to modify or delete them by accessing the context menu that appears when you right click on the node. See the 'Created Report Templates' topic for help on modifying created reports.

4.4.3 Created Report Templates

Each object here represents a Report Template object, which in turn should link to a Report Template File. Each Report must have a single Report Template object associated with it. Right click a Template under the Templates parent node to select the following options from the context menu.

4.4.3.1 Modify

When selected, the Template Configuration General page is displayed. From here you can change the Description given for the Template, or edit the Template by clicking on the [Edit] button. The following features of a configured Template cannot be edited:-
• The Template Name
• Any Query's Dataservice
• Any Query's Dataset

Anything else to do with the Report Template can be modified.

4.4.3.2 Delete

A message will inform you that Report Templates associated with Reports cannot be deleted.

4.5 Schedules Node

All configured Schedules will be displayed under this node. Each configured Report must have at least one Report Schedule. A Report Schedule is used to run Reports at regular intervals. A single Report Schedule can be used by many Reports.

4.5.1 Creating Schedules

Right click on this node and select the 'New Report Schedule' context menu to open the Report Schedule Wizard, which allows you to create a new Report Schedule.

4.5.2 Configure Created Schedules

When schedules have been created, they will be added under this node. You will be able to modify or delete them by accessing the context menu that appears when you right click on the node. See the 'Created Schedules' topic for help on modifying created reports.

4.5.3 Created Schedules

The nodes under the main Schedules node represent the configured Report Schedules that are available for Reports. A single Report Schedule can be used by many Reports. Right click on a Schedule node to select the following options from the context menu which are available when the Schedule is selected from under the Schedules object. Click the hotspots on the context menu below for information on the options.

4.5.3.1 Modify

The Property pages of the Schedule will be opened in modify mode. You can modify everything except the Schedule name and type.

4.5.3.2 Delete

A message will inform you that the Schedule is currently being used by any Reports that it is associated with, and ask for confirmation of its deletion.
Select [Yes] to continue with the deletion, [No] to abort the deletion.

4.5.3.3 Disable

The Schedule will be disabled. A red cross will appear over the object in the Tree view window denoting that it is disabled. The object will now have an Enable option on the context menu in place of the Disable option. Reports using this Schedule will be triggered until the Schedule is enabled once again.

4.5.3.4 Publish Report

This option provides the ability to publish a selected report for any date/time. When selected, the Report Generation wizard will start up. This enables the user to define the time or schedule, alias values, format and recipients for the published report.

4.6 Formats Node

This is the parent node for all Report Formats. Report Formats define the way in which the finished report will be published. A Report can be published in a variety of different file formats, or can be published as a printed copy:

- File formats - defined as an Excel worksheet (XLS), Acrobat file (PDF), Comma Separated Value file (CSV), Tab Separated Value file (TSV), Extensible Markup Language file (XML) or as a Web page (HTML).
- Printed Format - defined as an available networked printer.

4.6.1 Creating Formats

Right click on this node and select the 'New Report Format' context menu to open the Report Format Wizard, which allows you to create a new Report Schedule.

4.6.2 Configure Created Formats

When formats have been created, they will be added under this node. You will be able to modify or delete them by accessing the context menu that appears when you right click on the node. See the 'Created Formats' topic for help on modifying created formats.

4.6.3 Format Sub Nodes

Recipients must be associated with at least one report format. Associated recipients are added as sub nodes under the format objects they are associated with as well as being seen as nodes under the recipients parent node. See the 'Report Sub Nodes' topic for further information.
4.6.4 Configured Format Nodes

All configured Report Formats are displayed here. Each Report Format may or may not have a Report Recipient associated with it. If a Configured Report does not have a defined Report Format, it will be created as an Excel file (XLS) in the location specified for the Report, if any, or the working directory of the Report Scheduler. A single Report Format can be used by more than one Report.

Right click on a Format node which is under the Formats parent node to select the following options from the context menu.

- **Modify**
  
  The Property pages of the Format will be opened in modify mode. You can modify everything except the Format name.

- **Delete**
  
  When you select this option, a message appears asking you to confirm the deletion.

Select [Yes] to continue with the deletion, [No] to abort the deletion.

- **Disable**
  
  The Format will be disabled. A red cross will appear over the object in the Tree view window denoting that it is disabled. The object will now have an Enable option on the context menu in place of the Disable option. Reports using this Format will not be published until the Format is enabled once again.

Report Configuration Main Interface

4.6.5 Created Format Sub Nodes

Any Report Formats that have been created with associated Report Recipients will have the associated Recipients displayed here. Right click a Recipient sub node which is under its associated Format node to select the following options from the context menu.
4.6.5.1 Modify

The Property pages of the Recipient will be opened in modify mode. You can modify everything except the Recipient name and Delivery Type.

4.6.5.2 Delete

When you select this option, a message appears asking you to confirm the deletion.

![Delete Report Recipient dialog](image)

Are you sure you want to delete the recipient: ‘EPhillips - File Copy’?

Select [Yes] to continue with the deletion, [No] to abort the deletion.

4.6.5.3 Remove From Format

The selected Recipient will be immediately removed from association with the parent Format, but is not deleted.

4.6.5.4 Disable

The Recipient will be disabled. A red cross will appear over the object in the Tree view window denoting that it is disabled. The object will now have an Enable option on the context menu in place of the Disable option. This Report Recipient will not be able to deliver a published Report until it is enabled once again.

4.7 Recipients Parent Node

This is the parent node for all configured Report Recipients. These identify how a Published Report will be distributed.

4.7.1 Creating Recipients

Right click on this node and select the 'New Report Recipient' context menu to open the Report Recipient Wizard, which allows you to create a new Report Recipient.

4.7.2 Configure Created Recipients

When recipients have been created, they will be added under this node. You will be able to modify or delete them by accessing the context menu that appears when you right click on the node. See the 'Created Recipients' topic for help on modifying created reports.

4.7.3 Created Recipients

Each Report Recipient that is created is displayed here. Different Recipient types have different icons. Right click a Recipient node which is under its parent Recipients node to select the following options from the context menu.
4.7.3.1 Modify

The Property pages of the Recipient will be opened in modify mode. You can modify everything except the Recipient name and Delivery Type.

4.7.3.2 Delete

When you select this option, a message appears asking you to confirm the deletion. Select [Yes] to continue with the deletion, [No] to abort the deletion.

4.7.3.3 Disable

The Recipient will be disabled. A red cross will appear over the object in the Tree view window denoting that it is disabled. The object will now have an Enable option on the context menu in place of the Disable option. This Report Recipient will not be able to deliver a published Report until it is enabled once again.

4.8 Tree View Context Menus

Each configured object node in the Tree View window has its own context menu, which can be displayed by selecting the object and pressing the right mouse button. The items available on the context menu depend on where in the Tree View window the object is. Objects which have a context menu are listed below.

- Report Nodes
- Report Sub Nodes
- Report Template Nodes
- Schedule Nodes
- Format Nodes
- Recipient Nodes

4.9 Report Configuration Wizards

All aspects of Report Configuration are done with the use of Report Configuration wizards. Each wizard is made available by right clicking on an object in the Report Configuration tree view pane and selecting the New option. The Wizards available are:-
• Report Generation Wizard
• Report Wizard
• Report Template Wizard
• Report Schedule Wizard
• Report Format Wizard
• Report Recipient Wizard

5 Details Window

The Details window provides details regarding the object selected in the Tree Window.

6 Report Generation Wizard

The Report Generation wizard begins when a user selects the 'Publish Report' option on the context menu for a configured report or schedule selected in the Report Configuration tool.

The Report Generation wizard enables users to manually generate a published report. There are many potential reasons why this may be needed:

• The user may have just created a new report and needs to run the report for times in the past.
• Connection with a specific RTU may have been lost and therefore the original report contained invalid data.
• Some historical editing may have occurred and the reports need to take account of this - etc.

The pages of the Report Generation wizard are:

1. Report times page
   a. Schedules page
   b. Reports page
2. Report aliases page
3. Report formats page
4. Recipients page
5. Summary page
6. Progress page

6.1 Report Times Page

This page enables the user to select specific times or a time range for the published reports.
6.1.1 Progress Bar from a Report

The progress bar lists all the pages of the wizard. As the user steps through the wizard, the next page is highlighted, and pages already visited are shown in italics.

The pages of the Report Generation wizard differ slightly depending on whether the user selected the 'Publish Report' context menu option from a report or a schedule. The progress bar below appears when the user has elected to publish from a report object.
If this progress bar does not look like the one you can see, look at the Progress Bar from Schedule topic.

6.1.2 Specific Times

If the 'Specific Times' radio button remains selected, the controls under the radio button are as shown in the image below. The user needs to select a date or dates for which the publish reports are required. The report date field can be made to show a time value also.

6.1.2.1 Time-Date Field

The from control enables the user to define an exact time for the published report. The Time-Date field shows only the date by default.
The user can make a time appear in the field also by checking the 'Include report time' button on the 'Report Times page'.

### 6.1.2.1.1 Changing the time

When the time is shown, it defaults to midnight (00:00:00). The time can be changed by editing the time control manually.

6.1.2.1.2 Changing the date

The date can also be changed by clicking the small arrow to the right of the Date-time control. Then change the selected date on the calendar control that appears.

### 6.1.2.2 [Add] button

Adds the date-time currently in the date-time field to the 'Selected Times' list.

### 6.1.2.3 Include report time

When checked, a time value is appended to the date in the time-date field. The default time is set to midnight (00:00:00)
6.1.2.4 Selected Times List

This list contains the times which have been defined for the published reports to run.

6.1.2.5 [Remove] button

Removes the selected time from the selected times list.

6.1.2.6 [Remove] All button

Removes all times from the selected times list.

6.1.3 Time Range

When the 'Time Range' radio button is selected, the controls underneath change to enable you to select a time range for which reports will be published.

6.1.3.1 From

The from control enables the user to change the from time of the report range. It defaults it to showing the date only.

It can be made to show the time also by checking the 'Include report times' button.

6.1.3.1.1 Changing the time

The user can edit the time directly in the 'From' field by selecting the necessary part of the time (hours, minutes or seconds) and typing in a new value.
6.1.3.2 Changing the date

To change the date, first click on the small arrow to the right of the 'From' field. Then change the selected date on the calendar control that appears.

6.1.3.2.1 Changing the time

The user can edit the time directly in the 'From' field by selecting the necessary part of the time (hours, minutes or seconds) and typing in a new value.

6.1.3.2.2 Changing the date

To change the date, first click on the small arrow to the right of the 'From' field.
Then change the selected date on the calendar control that appears.

6.1.3.3 Include report times

The date in the From and To fields can be made to include a time value by checking this button. This allows the user to specify an exact time for the published report.

6.1.3.4 To Date Warning

This small exclamation warns you that the To and From dates or date-time values must be different. The To date-time value must be later than the From value.

6.2 Schedules Page

This is the second page of the Report Generation wizard if the user selected the ‘Publish Report’ option from the context menu of a report.

If the user chose a range of times, it enables the user to select a schedule for publishing the report.
6.2.1 Timed Schedules

This is a list of schedules that are associated with the selected report. Uncheck any schedules that are not required for your published reports.

Uncheck any schedules you do not want to use

6.2.2 Schedule Times

A list of times for which published reports will be generated based on the selected schedules for the defined time range.
6.3 Reports Page

This is the second page of the Report Generation wizard if the user selected the 'Publish Report' option from the context menu of a schedule.

It enables the user to select a report that is associated with the schedule, should there be multiple reports associated with the schedule.

6.3.1 Progress Bar from a Schedule

The progress bar lists all the pages of the wizard. As the user steps through the wizard, the next page is highlighted, and pages already visited are shown in italics.

The pages of the Report Generation wizard differ slightly depending on whether the user selected the 'Publish Report' context menu option from a report or a schedule. The progress bar below appears when the user has elected to publish from a schedule object.
6.3.2  Reports

A list of reports that are associated with the selected schedule. Uncheck reports that do not need publishing for the time defined.

6.4  Report Aliases Page

The Report Aliases page enables the user to change any alias values on the reports that are to be published prior to report generation.
6.4.1 Alias Value Change

To change the value of an alias, click on the 'Value' field and type the value in as shown in the image below. In this example, the extension part of a signal name is being assigned the value of 'LEVEL'.

At template level, the selected report has an alias named <<EXTENSION>> assigned to the extension attribute for the signals required. Setting the value of this alias to 'LEVEL' will filter the objects in the query on the report such that only signals which have an extension of 'LEVEL' are returned.

<table>
<thead>
<tr>
<th>Name</th>
<th>Report</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTENSION</td>
<td>MS Report 1</td>
<td>LEVEL</td>
</tr>
<tr>
<td>BASE</td>
<td>MS Report 1</td>
<td></td>
</tr>
</tbody>
</table>

6.5 Report Formats Page

This page enables the user to select the required format for publishing the report.
6.5.1 Report Formats

Select the report formats that you want to use when the report is published by checking or unchecking the tick boxes.

<table>
<thead>
<tr>
<th>Format Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS Report Format</td>
</tr>
<tr>
<td>MS PDF Format</td>
</tr>
<tr>
<td>PW pdf Format</td>
</tr>
</tbody>
</table>

6.6 Recipients Page

Enables the user to send the published reports to any associated recipients.
6.6.1 Report Recipients

Select the report recipients that you want to deliver to when the report is published by checking or unchecking the tick boxes.

<table>
<thead>
<tr>
<th>Recipient Name</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>A8owan email</td>
<td>MS PDF Format</td>
</tr>
<tr>
<td>GBrown Email</td>
<td>MS PDF Format</td>
</tr>
</tbody>
</table>

6.7 Summary Page

The Summary page enables the user to view what reports will be published. Users should check the summary before moving on from this page. Errors can be rectified at this stage by using the [Back] button to go back through the pages of the wizard.
6.7.1 **Summary List**

Shows all the published reports that will be generated.
6.7.2 Report Name

The name of the configured report that will be run.

Report Name: MS Report 1

6.7.3 Base Date

The date-time that will be used as the Base Date of the report. The Base Date is the time which will be used to calculate the start date-time for the report query.

Base Date/Time: 26 · Sep · 2007 00:45:00

6.7.4 Formats

The Formats that will be generated with the published report.

Formats:
MS PDF Format

6.7.5 Recipients

The Recipients that will receive a copy of the published report.

Recipients:
GBrown Email

6.8 Report Publication Progress Page

This page informs the user of the progress made as the reports are published.
6.8.1 Current report

The name of the report currently being published is displayed here.

6.8.2 Overall Progress

Shows the overall progress of the report generation. In the example below, OpenEnterprise is in the process of generating the second of nine reports.

6.8.3 Current Item Progress

Shows the progress in generating the current report item. In the example below, the current report is in the process of being distributed, and therefore is nearly completed.
7 Report Configuration

The Report Wizard begins when you select the 'New Report' context menu after clicking with the right mouse button on the 'The Configured Reports' node in the Tree Window.

The Report Configuration wizard contains 7 pages that enable you to bring a previously configured Template together with its intended Schedules, Formats and Recipients to create an OpenEnterprise Report.

These are the pages of the Report Configuration wizard:-

General Page
Alias Values Page
Publishing Page
Formats Page
Schedules Page
Credentials Page
Alarm Conditions Page
Report Configuration Wizards

7.1 General Page

This page enables you to give the new Report a name and to provide a detailed description of it. It also allows you to associate the Report with a Report Template, which must have been configured previously.
7.1.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

7.1.2 Report Name

Type the name of the Report here. Each Report must have a unique name.

7.1.3 Report Description

Type a more lengthy description here of exactly what the Report does, to remind you later.

7.1.4 Disable Report

If this box is checked, the Report will be created disabled. This is useful if you do not wish to run the Report straight away, or if you want to disable the Report for any reason at a later time.

7.1.5 Template List

This is a list displaying the available Report Templates. Templates must be created before the Report itself is created. You must select a Template in order to continue creating the Report. Once a Report has been created it is not possible to change the selected Template.

7.1.6 Selected Template

The Template that has been selected from the 'Template List' will be displayed in this uneditable field. Only then will the [Next] button be enabled.
7.1.7 Modify Mode

When viewing this page to modify the settings, the button array is slightly different, as shown below.

When a change is made on a page, the [OK] and [Apply] buttons become enabled. [OK] saves the changes and closes the configuration pages, whilst [Apply] saves the current changes without closing the configuration pages, allowing more changes to be made.

7.2 Alias Values Page

The Alias Values page enables you to view any aliases that have already been configured in the Report Template file, as well as to create and delete aliases. You can also define the value of the alias here.

![Alias Values Page]

7.2.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.
7.2.2 Available Aliases

This is a list of the available aliases for the Report. The BASEDATE, BASETIME and DATASERVICE Aliases are added to Report Template files by default. If you cannot access a Report Template file, the Report Configuration Tool will not be able to display any Aliases that are in the Report Template file.

However, if you know that Aliases exist in the actual Report Template file, and you want to give the Aliases alternative values when the Report is run, you can do so from here by Adding the Aliases, and configuring them to have the values you want. The Report Scheduler will then ensure that the new values are given to the existing Aliases in the Report Template file when the Report is run.

If you can access the actual Report Template file when you are configuring the Report, the Aliases configured within the Report Template file will be shown in this list, and you can change the value of any Alias when the Report is run by selecting it and clicking the Modify button, giving it a new value in the Alias Configuration dialog.

7.2.3 Add Button

When this button is selected, the Alias Configuration dialog is shown, which enables you to add a new Alias to the list of Aliases. This does not add the Alias directly to the Report Template file, but enables you to change the value of a known Report Template Alias from the Report Configuration Tool. It is a feature that enables Report configuration even when you do not have direct access to the Report Template file that will be used in the Report. If you do not need to change the known Alias value for the Report that you are configuring, then there is no need to add it here.

7.2.4 Modify Button

When an Alias is selected from the list of configured Aliases in the Report Template the Alias button becomes enabled. When the button is selected, the Alias Configuration dialog is shown, giving you options to change the value of the Alias when the Report is run.

7.2.5 Delete Button

Clicking this button will initiate the deletion of a selected Alias. A prompt box enables you to abort the deletion if required. The Alias is not deleted from the Report Template file, only from the Report configuration. The Alias will still run with its original configured value.

7.2.6 Alias Configuration Dialog

This dialog enables you to add and modify Aliases. The functionality provided by the dialog is slightly different for the add and modify operations.

7.2.6.1 Add Alias

When adding an Alias to a Report configuration, the Name field is editable. The name must be identical to the one already configured on the Report Template file. The Alias is not actually added to the Report Template file, it is added to the Report Configuration in the Database.
7.2.6.2 Modify Alias

When modifying an Alias that is configured in a Report Template that you have access to, the Alias will be shown on the Alias Values page. You can change the Value of the Alias by modifying it, but you cannot change the Alias name. Therefore the Name field is disabled. Click the hotspots* on the image below for further information on the features of this dialog.

Alias Values Page

7.2.6.3 Alias Name

This is the name of the Alias. It must have been defined in the Report Template file. The name you specify here must match the name of an actual Alias within the Report Template file. Aliases that are added here are not added to the Report Template, they are only added to the Report configuration in order that the Report Scheduler can change the Alias value when the Report is run to the value that is provided here.

When the dialog is run in modify mode, the Name field is disabled, because the Alias name cannot be changed, only its value.

7.2.6.4 Alias Type

Select the type of Alias you require from this drop-down list. The options are:-

- *Undefined*: the Alias has no value defined.
• **Constant:** the Alias will be defined by a constant value which you must type into the Value field.

• **CSV List:** the Alias will be defined by a CSV list, which you must type into the Value field.

• **SQL Query:** the Alias will be defined by an SQL Query, which you must type into the Value field. If this option is chosen, you will also have to define your data source in the 'Data Service' field. You can test the SQL query by clicking the [Test] button.

### 7.2.6.5 Alias Value

Type the definition for the Alias in here. If the Alias Type is Value, then type in the value of the Alias.

If the Alias Type is CSV, then type a list of values separated by commas. If the Alias Type is SQL, then type the Query here.

#### 7.2.6.5.1 Query Restrictions

The query can only return a single attribute which will be used with the Report. If more than one attribute is defined in the query, or the asterisk (*) is used to denote all attributes, the results will be unpredictable.

#### 7.2.6.5.2 Multiple Value Restrictions

Each Report can only have one Alias that returns multiple values. This means that a Report can only have one CSV or SQL Query Alias value defined.

### 7.2.6.6 Data Service

This button is only enabled for SQL Query Alias values. Type the Data Service for the SQL query in here, using the `<ServerName>:<DataBaseName>` format as shown in the example below.

**Data Service:** zonda:trdb1

### 7.2.6.7 Test Button

If the Alias Type is SQL Query, this button becomes enabled. Select the button to test the query against the specified Data Service. The results will be displayed in the Query Results Dialog.

### 7.2.6.8 Query Results Dialog

The results of a query defined in the Value field for an SQL Query type Alias are shown in this dialog when the [Test] button is selected from the Alias Values Page of the Report Wizard. The dialog can be closed by selecting the [Close] button.
7.3 Publishing Page

This page enables you to set a default location for the Report, and to set up a Report purging regime. Settings on this page can be overridden by any Report Formats associated with the Report.
7.3.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

7.3.2 Default Directory

This will be the directory to which any Reports produced from this configuration will be, by default, saved. They will be saved as an Excel file, with the name of the Report configured on the General page, and with the current Date and Time appended.

A unique integer ID may also be appended to the file in order to ensure uniqueness.

The Report will then be published and distributed based on any Formats and/or Recipients associated with the Report.

7.3.3 Directory Browse Button

This button will open up a directory browsing dialog. The selected destination will be copied to the 'Directory' field.

7.3.4 Purge Reports

When checked, three Report purging options will become enabled. These provide three different ways of managing the proliferation of Report files.
7.3.5 Delete Once Successfully Distributed

This option means that once a Report has been distributed successfully (i.e. it has been created in the default directory and then successfully sent as an Email attachment, copied to a destination directory or copied to an FTS Server) the Report will be deleted from the default directory as defined on this page. The Report will not be deleted if the distribution fails.

7.3.6 Delete on Distribution

The Report will be deleted from the default directory once the Report has been created and the distribution process has been undertaken by the Report Scheduler, even though the distribution may have failed.

7.3.7 Delete After Time

The Report will be left in the default directory for a period of time specified by the spin controls here. The time units can be Hours, Days, Weeks, Months or Years, the number can be any integer up to 999. After that time, it will be deleted.

7.3.8 Delete Report Catalog Also

If this item is checked, when the Report is deleted, OpenEnterprise will also delete the entry for the Report in the Report Catalog (the publishedreport table).

7.3.9 Remove Report Plugins From Published Report

If checked, when the Report is published, the Report Scheduler will remove the OpenEnterprise Plugins from the finished Report. For more information on the OpenEnterprise Plugins, see the OpenEnterprise Plugin help file.

7.4 Formats Page

This page allows you to associate any pre-configured Report Formats with this Report.
7.4.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

7.4.2 Available Formats

This is a list of Formats that have been pre-defined. They can be associated with this Report by moving them from this list to the 'Selected Formats' list with the aid of the 'Move' buttons between the two lists.

7.4.3 Selected Formats

This is the list of Formats that have been selected for use with this Report. A single Format or all Formats in this list can be removed and sent back to the 'Available Formats' list using the 'Move' buttons between the two lists.

For each Selected Format a separate Report will be created, of the file type specified in the Format, and in the default directory specified by the Format.

7.4.4 Move Highlighted Formats

These buttons move a selected object from one list to the other, according to the direction of the arrow on the button.
7.4.5  Move All Formats

These buttons move all objects from one list to the other depending on the direction of the arrows on the button.

7.4.6  Disable Publishing

If this box is checked, then all selected Report Formats will be disabled, and when the Report is next triggered, a single Report will be created in the Default Directory defined on the ‘Publishing Page’ for this Report.

The created Report will be given the same name as the configured Report Name, with the current date and time appended to the name, and if required, a unique integer identifier.

7.5  Schedules Page

This page enables you to associate pre-defined Schedules with the Report.

7.5.1  Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

7.5.2  Available Schedules

This is a list of Schedules that have been pre-defined. They can be associated with this Report by moving them from this list to the ‘Selected Schedules’ list with the aid of the ‘Move’ buttons between the two lists.
7.5.3 Selected Schedules

This is the list of Schedules that have been selected for use with this Report. A single Schedule or all Schedules in this list can be removed and sent back to the ‘Available Formats’ list using the ‘Move’ buttons between the two lists.

7.5.4 Move Highlighted Formats

These buttons move a selected object from one list to the other, according to the direction of the arrow on the button.

7.5.5 Move All Formats

These buttons move all objects from one list to the other depending on the direction of the arrows on the button.

7.6 Credentials Page

This page allows you to select the OpenEnterprise user with which the Report Plug-in will log on to the database in order to obtain any data.

7.6.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.
### 7.6.2 Local Administrative Account

If checked, the then the published Report(s) will be generated using the credentials of the local OpenEnterprise Server Administrative user defined in the OpenEnterprise settings file.

### 7.6.3 Named User

If checked, you can select a user from the drop-down list which the Report Plug-in will use to log on to the database when requesting data. The query will only return objects having the access areas associated with the selected user.

### 7.7 Alarm Conditions Page

This page allows you to configure alarms that will be generated when a Report is distributed.

#### 7.7.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

#### 7.7.2 Generate Alarm on Success

Checking this option will add an alarm condition to the 'Configured Alarm Conditions' list that will be generated on the successful distribution of a Report.
7.7.3 Generate Alarm on Error

Checking this option will add an alarm condition to the 'Configured Alarm Conditions' list that will be generated when an error occurs whilst creating a Report.

7.7.4 Configured Alarm Conditions

This is a list of configured Alarm Conditions that will be generated when this Report is created.

7.7.5 Add Alarm Condition Button

This button opens the Alarm Condition Configuration dialog in Add mode.

7.7.6 Modify Alarm Condition Button

This button opens the Alarm Condition Configuration dialog in modify mode.

7.7.7 Alarm Condition Configuration Dialog

This dialog enables you to configure a custom Alarm Condition.
7.7.7.1 Alarm Condition Description
An extended description of the Alarm Condition can be typed in here.

7.7.7.2 Alarm Priority
Select the required priority for the Alarm Condition from the drop-down list.

7.7.7.3 Available Status Values
A list of the Status Values that are available to trigger the Alarm Condition.

7.7.7.4 Alarm Condition Status Value
The actual Status Value that will trigger this Alarm Condition.

7.7.7.5 Alarm Condition Status Value Range
A range of Status Values that will trigger the Alarm Condition.

8 Template Configuration
The Template wizard enables you to configure a Template for an OpenEnterprise Report. An OpenEnterprise Report must have an associated Report Template.

8.1 General Page
The Template Configuration page enables you to create Report Template objects and also to create and edit actual Report Template files.

8.1.1 Creating and Editing Report Template Files
To create a Report Template file, just enter a name for the Template in the Name: field and click the [Create] button. This will open a new Report Template file ready to be configured. To edit a Report Template file, find it using the [Browse...] button, then click the [Edit] button to open it ready for modification. For information on how to configure a Report Template file, please refer to the Reporting Plugin Help file.

Report Template files are Excel 2003 (or higher) files with the OpenEnterprise Reporting Plugin added. The Reporting Plugin is an OpenEnterprise Database Schema aware component that enables you to easily access and create queries based on the historical setup of the Database to which it is connected.
8.1.2 Template Wizard Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

8.1.3 Template Name

This is the unique name of the Report Template object. If you are modifying a Report Template object, this field will be disabled. Template object names must be unique and the name cannot be changed once a Template object is created.

8.1.4 Template Description

Type a more lengthy description here of exactly what the Report Template object does, to remind you later.

8.1.5 Create Button

This button remains disabled until a name is typed into the Template Name field. When the button is enabled and selected, then providing Excel 2003 is installed on the machine, and the Template name you typed is unique, a blank OpenEnterprise Report Template file will be opened ready for configuration.

8.1.6 Template File Name

This is the name of the Report Template file. If you are modifying a Template, this field will be disabled, but if you are creating a new Template, it will be enabled.
8.1.7 Template Directory

This is the name of the directory where the Report Template file is stored. If you are modifying a Template, this field will be disabled, but if you are creating a new Template, it will be enabled, and automatically populated once the Report Template file has been edited/created.

8.1.8 Edit Button

When the Edit button is selected, providing Excel 2003 is installed on the Server or Workstation, and you have access to the original Template file as defined in the File Name and Directory fields, the Template file will be opened in Excel for you to edit.

8.1.9 Browse for Template File Button

If you are creating a new Template file, this button is enabled. If there is a previously configured Template file that you could use to base the new Template on, select this button to browse for and select it.

You should make any changes and save the file with a new name (e.g. the same name as the new Template). The new Template file name and directory will then be shown in the relevant File Name and Directory fields on this page.

9 Schedule Configuration

The Report Schedule wizard enables you to configure a Schedule that can be used to run any Report. It consists of four pages.

1. General Page
2. Type Page
3. Reports Page
4. Alarm Conditions Page

9.1 General Page

The Schedule wizard General page enables you to give the Schedule a name and description. You can also set the Schedule type and disable the Schedule.
9.1.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

9.1.2 Schedule Name

Type the name of the Schedule here. Each Schedule must have a unique name, which cannot be changed once it is created.

9.1.3 Schedule Description

Type a more lengthy description here of exactly what the Report Schedule does, to remind you later.

9.1.4 Disable Schedule

Tick this box to disable the Schedule. A disabled Schedule is not run by the Report Scheduler.

9.1.5 On Demand Type

An 'On Demand' type Schedule is run as a result of user action. A report could for instance be run when a user clicks a button on a display.

The button would need to be set up to perform a Database Update action which sets the DoReport attribute of the ReportSchedule table to TRUE.
9.1.6 Timed Schedule

A Timed Schedule can be set to run once at a specific Date and Time, or can be set to run repeatedly at set intervals. The repeat intervals can be defined in:

- Minutes
- Hours
- Days
- Weeks
- Months
- Years

An offset can also be applied to the repeat interval.

9.1.7 Value Change Schedule Type

A Value Change Schedule runs when a specific value defined in the Report changes. The value is defined as an OPC tag.

9.2 Type Page

The configuration needed on this page depends on the Schedule Type selected on the General Page. The different formats of this page are:

1. On Demand Configuration
2. Timed Configuration
3. Value Change Configuration

9.2.1 On Demand

The On Demand Schedule Type page does not require any further configuration, since it will be triggered based on external action.
9.2.1.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

9.2.1.2 No Additional Configuration

On demand schedules are not configured by the Report Configuration tool. On demand schedules are run by setting the 'doreport' attribute of the schedule to true.

This can be done from a 'Custom Command' Pick object on an OEGraphics display. See the 'Default' field on the 'Database Update - Graphics View Source' topic in the OEMenus help file for more details.

9.2.2 Timed

This page enables you to set the time when the Schedule will trigger a Report. The trigger can be a single time or can be a repeating trigger.
9.2.2.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

9.2.2.2 Repeating

If this box is checked, the repeatable period options become available as shown on the Timed Schedule page. If it is not checked, then the Absolute Time fields are displayed so that a single Date/Time can be selected for the Schedule.

9.2.2.3 Repeat Period Multiplier

This is a number which is multiplied by the Repeat Period to get the actual time when the Schedule will run.

9.2.2.4 Repeat Period

The Repeat Period can be any of the following:
9.2.2.5  At

This option is displayed when the Repeat Period is a number of Days, Weeks, Months or Years. It allows you to specify the time of the day when the Report Schedule will trigger the running of a Report.

9.2.2.6  With an Offset of

The 'With an offset of' controls allow you to set an offset from the start of the minute or hour for the Report to run.

9.2.2.6.1  Days

If the Repeat Period is a number of Days, the Offset is selected with an 'At' field alone.

9.2.2.6.2  Weeks or Months

If the Repeat Period is a number of Weeks, the Offset is selected not only with the 'At' field to determine the time of day when the Report will be run, but also two further fields will be made available to determine the actual day when the Report will be run.

9.2.2.6.2.1  Day

For a Repeat Period of Weeks, the Day field has number 1 to 6 available.

9.2.2.6.2.2  On The

The On The option can be selected to define the repeat period in terms of an expression such as 'On the First Day', 'On the Last Sunday' etc..

9.2.2.6.3  Years

The Offset fields change when the repeat interval is a Year. Selection of the 'On The' button enables the two drop-down lists to the side of it. The first list gives the number of days in the month and the other list gives a choice of the Months of the year, so that you can specify the exact Date when the Report will run.
9.2.2.7 Schedule Summary

The text here describes exactly when the Report Schedule is set to trigger. It is meant to provide a check for you to be sure that you have configured the Schedule correctly before moving on.

9.2.2.8 Local Time DST Adjusted

This option is selected by default. The time of the Schedule will be calculated taking into account local DST (Daylight Saving Time) settings.

9.2.2.9 Local Time DST not Adjusted

The time of the Schedule will not take into account local DST (Daylight Saving Time) settings.

9.2.2.10 UTC Time

The Report Scheduler will interpret the Schedules times as UTC (Coordinated Universal Time) times, not local time. Local time could be up to 12 hours ahead of or behind UTC time. UTC time is equivalent to GMT (Greenwich Mean Time).

9.2.3 Value Change

This page enables you to define a Tag for the Value Change Schedule. You can also set a mandatory time interval between runs of the Schedule, an offset in seconds after which to trigger the Report when a value change is detected and set the value or range of values that will trigger the Report.

9.2.3.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.
As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

9.2.3.2 OPC Tag

Type the OPC Tag directly into this field, or click the [Browse] button to the right of it. This will open the OpenEnterprise Tag Browser, which displays the available OPC Servers. A Schedule can be triggered using a tag from any OPC Server. Select the OPC Server that has the tag you want to use as the Report Trigger. For OpenEnterprise signal values, it would be the Bristol.Babcock.OPCServer. Then browse for and select the signal value that you want, and the OPC string will be entered into this field when the Tag Browser window is closed. This would then allow the Schedule to trigger based on a value change for an OpenEnterprise database attribute.

If you do not see a list of signals under the BristolBabcock.OPCServer icon, ensure that the BUILDINITIALBROWSEONREQUEST value on the OpenEnterprise\Tasks\BristolOPCServer key of the OpenEnterprise Settings Editor is set to 1, then close and reopen the Schedule Wizard.

9.2.3.3 OPC Server Browse Button

Opens up the OpenEnterprise Tag Browser, which enables you to select a Tag which will act as the trigger for the Report Schedule you are configuring.

9.2.3.4 Trigger Suppress Value

Enter a time here that will provide a minimum time to elapse between one run of the Report Schedule and another. This is to ensure that in the event of a rapidly changing Tag value, that a Report is not run before the previous run is finished. The Report Scheduler will not run another Report, based on this Schedule before this time has elapsed even though the designated Tag value may have changed.

9.2.3.5 Trigger After Value Change

This acts as a buffer between the Tag value change and the running of a Report Schedule, and may be used to ensure that any historical data associated with a Report has been logged prior to the Report being published.

9.2.3.6 Any Change

Any change in the Tag value will trigger the Schedule.

9.2.3.7 Specific Value

If the Tag value equals the value defined here the Report Schedule be triggered.

9.2.3.8 Inside Range

If the value of the Tag is within the values specified in the two Trigger Value fields, the Report Schedule is triggered.

9.2.3.9 Outside Range

If the value of the Tag is outside the values specified in the two Trigger Value fields, the Report Schedule is triggered.

9.2.3.10 Trigger Value

The Trigger value is defined in one or two fields here, depending on the type of value change selected.
9.3 Reports Page

The Reports Page enables you to associate any Reports that have been configured with this Schedule.

9.3.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

9.3.2 Available Reports

The list of Reports that are available for association with this Schedule.

9.3.3 Selected Reports

The list of Reports that have been associated with this Schedule.

9.3.4 Move Highlighted Formats

These buttons move a selected object from one list to the other, according to the direction of the arrow on the button.

9.3.5 Move All Formats

These buttons move all objects from one list to the other depending on the direction of the arrows on the button.
9.3.6 Back Button

When enabled, this button will take you to the previous page of the wizard, where you can alter any previous configuration.

9.3.7 Next Button

This button will move you to the next page of the wizard. When you get to the end of the wizard, it will become disabled and the [Finish] button will finally become enabled.

9.3.8 Finish Button

When you get to the last page of the wizard, this button becomes enabled, and the [Next] button is disabled.

9.3.9 Cancel Button

If you select this button after having partially created a Reporting object, the Wizard will close without saving the object.

9.3.10 Help Button

Context sensitive help. Clicking on this button on a dialog will open the help file at the correct page. You can also receive context sensitive help by pressing the [F1] key on the computer keyboard.

9.4 Alarm Conditions Page

The Alarm Conditions page allows you to configure an alarm which is set off when either the Report Schedule succeeds or fails.
9.4.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

9.4.2 Generate Alarm on Success

Checking this option will add an alarm condition to the ‘Configured Alarm Conditions’ list that will be generated on the successful distribution of a Report.

9.4.3 Generate Alarm on Error

Checking this option will add an alarm condition to the ‘Configured Alarm Conditions’ list that will be generated when an error occurs whilst creating a Report.

9.4.4 Configured Alarm Conditions

This is a list of configured Alarm Conditions that will be generated when this Report is created.

9.4.5 Add Alarm Condition Button

This button opens the Alarm Condition Configuration dialog in Add mode.

9.4.6 Modify Alarm Condition Button

This button opens the Alarm Condition Configuration dialog in modify mode.

9.4.7 Delete Alarm Condition Button

This button will delete an Alarm Condition that has been selected from the list of configured Alarm Conditions.

9.4.8 Back Button

When enabled, this button will take you to the previous page of the wizard, where you can alter any previous configuration.

9.4.9 Next Button

This button will move you to the next page of the wizard. When you get to the end of the wizard, it will become disabled and the [Finish] button will finally become enabled.

9.4.10 Finish Button

When you get to the last page of the wizard, this button becomes enabled, and the [Next] button is disabled.

9.4.11 Cancel Button

If you select this button after having partially created a Reporting object, the Wizard will close without saving the object.

9.4.12 Help Button

Context sensitive help. Clicking on this button on a dialog will open the help file at the correct page. You can also receive context sensitive help by pressing the [F1] key on the computer keyboard.
9.4.13 Alarm Condition Configuration Dialog

This dialog enables you to configure a custom Alarm Condition.

9.4.13.1 Alarm Condition Description

An extended description of the Alarm Condition can be typed in here.

9.4.13.2 Alarm Priority

Select the required priority for the Alarm Condition from the drop-down list.

9.4.13.3 Available Status Values

A list of the Status Values that are available to trigger the Alarm Condition.

9.4.13.4 Alarm Condition Status Value

The actual Status Value that will trigger this Alarm Condition.
9.4.13.5 Alarm Condition Status Value Range

A range of Status Values that will trigger the Alarm Condition.

9.4.13.6 OK Button

Click here to close the Alarm Condition Configuration dialog, saving the Alarm Condition configuration.

9.4.13.7 Cancel Button

If you select this button after having partially created a Reporting object, the Wizard will close without saving the object.

9.4.13.8 Help Button

Context sensitive help. Clicking on this button on a dialog will open the help file at the correct page. You can also receive context sensitive help by pressing the [F1] key on the computer keyboard.

10 Format Configuration

The Format Wizard allows you to define a Format in which a Published Report will be generated. The Report Format can be an Excel file, an Acrobat Reader PDF file, a Rich Text File, a Comma Separated Value file, an XML file or a Web page. It can also be in printed format. There are four pages to the Report Format Wizard, listed below.

General Page
Purging Page
Recipients Page
Alarm Conditions Page

10.1 General Page

The Format Wizard General page enables you to configure the basic set up for the Format, including its unique name, Format type and file name, among other things.
10.1.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

10.1.2 Report Format Name

Type a unique name for this Report Format. The name should probably reflect both the intended Report query and the type of Format.

10.1.3 Report Format Description

Type a more lengthy description here of exactly what the Report Format does, to remind you later.

10.1.4 Disable Report Format

Check this box to disable the Report Format. This will stop a Report being produced with this Format.

10.1.5 Report Format Type

Select one of the Report Format types displayed in this drop-down list. They are:-

- **Excel** - Excel file.
- **Printer** - Report is sent immediately to a designated printer.
- **PDF** - Adobe Portable Document Format file. Note - it may be necessary to set the Print Area and page orientation in the Report Template to optimize the output for this format type.
• **CSV** - Comma Separated Value file.
• **TSV** - Tab Separated Value file.
• **XML** - Extensible Markup Language file.
• **HTML** - Hyper-Text Markup Language file.

### 10.1.6 Report Format Destination

Type the Report Format destination directory here. You can also use the [Browse] button to search for or create a directory. If the Format type is Printer, you can type the name of a networked printer here, or use the browse button to find an available printer.

### 10.1.7 Browse for Folder/Printer Button

Select this to open a directory browser window that enables you to browse to and/or create a new directory. The selected directory is automatically placed into the Destination/Location field. If the selected Format type was Printer, you can use this button to find a network printer.

### 10.1.8 Report Format File Name

Type a file name for this Report Format here. This will be the name of the Published Report. The file name should ideally indicate the Report contents and the date it was created.

### 10.1.9 Formats Button

Provides a number of different Date/Time formats to add to the file name. Click the button and select the desired format. Single Date or Time formats can be added to the file name to build up a full Date/Time, or you can use the provided single Date and Time {DATETIME} format, as shown in the example here.

This example would create a file with a name like "Bucket Tank Levels 15-Mar-2006 12-30-01.xls", depending on when the Report was created.

### 10.1.10 Ensure Unique Filename

Checking this box will ensure that Published files are given a unique name (using a serial number) when they are created. This prevents them from being inadvertently overwritten.

### 10.2 Purging Page

The Format Wizard Purging page enables you to set up a Report purging routine, to ensure that published Reports do not fill the storage disc.
10.2.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

10.2.2 Override Report Purge Settings

Check this box to override the Purge settings that were configured on the Report Wizard's Publishing Page.

10.2.3 Do Not Purge Report

Select this radio button if you do not want Published Reports to be automatically deleted at all.

10.2.4 Delete Once Successfully Distributed

This option means that once a Report has been distributed successfully (i.e. it has been created in the default directory and then successfully sent as an Email attachment, copied to a destination directory or copied to an FTS Server) the Report will be deleted from the default directory as defined on this page. The Report will not be deleted if the distribution fails.

10.2.5 Delete on Distribution

The Report will be deleted from the default directory once the Report has been created and the distribution process has been undertaken by the Report Scheduler, even though the distribution may have failed.
10.2.6 Delete After Time

The Report will be left in the default directory for a period of time specified by the spin controls here. The time units can be Hours, Days, Weeks, Months or Years, the number can be any integer up to 999. After that time, it will be deleted.

10.2.7 Delete Report Catalog Also

If this item is checked, when the Report is deleted, OpenEnterprise will also delete the entry for the Report in the Report Catalog (the publishedreport table).

10.3 Recipients Page

This page enables you to associate configured Recipients with this Report Format, and hence define how Published Reports are distributed.

10.3.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

10.3.2 Available Recipients

A list of available Recipients who could be associated with this Report Format.

10.3.3 Selected Recipients

The list of Recipients selected for association with this Report Format.
10.3.4 Move Highlighted Formats

These buttons move a selected object from one list to the other, according to the direction of the arrow on the button.

10.3.5 Move All Formats

These buttons move all objects from one list to the other depending on the direction of the arrows on the button.

10.4 Alarm Conditions Page

This page enables you to configure alarms for the Report Format.

10.4.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

10.4.2 Generate Alarm on Success

Checking this option will add an alarm condition to the 'Configured Alarm Conditions' list that will be generated on the successful distribution of a Report.

10.4.3 Generate Alarm on Error

Checking this option will add an alarm condition to the 'Configured Alarm Conditions' list that will be generated when an error occurs whilst creating a Report.

10.4.4 Configured Alarm Conditions

This is a list of configured Alarm Conditions that will be generated when this Report is created.

10.4.5 Add Alarm Condition Button

This button opens the Alarm Condition Configuration dialog in Add mode.

10.4.6 Modify Alarm Condition Button

This button opens the Alarm Condition Configuration dialog in modify mode.

10.4.7 Delete Alarm Condition Button

This button will delete an Alarm Condition that has been selected from the list of configured Alarm Conditions.

11 Recipient Configuration

The Report Recipient Wizard enables you to configure Recipients for the Reports you create. Think of Report Recipients as describing how Published Reports are distributed. There are three pages in the Report Recipient Wizard.

1. General Page
2. Settings Page
3. Alarm Conditions Page

11.1 General Page

The Recipient Wizard General page enables you to configure the basic properties of a Recipient such as a name, a description and the type of Recipient.

Next

11.1.1 Recipient Name

Type a unique name here for this Recipient. The name should probably reflect both the intended Recipient and the Report delivery type.

11.1.2 Disable Recipient

Check this box to disable this Recipient. Any Reports assigned to this Recipient will not be delivered.

11.1.3 Recipient Description

Type a more lengthy description here describing the Report Recipient, to remind you later.

11.1.4 Email

Select this option if you want to distribute Published Reports via email. If this option is chosen the Email Settings page is shown next.

11.1.5 File Copy

With this item selected, Reports will be distributed to a specific directory. If this option is chosen the File Copy Settings page is shown next.
11.1.6 FTP Copy

Check this item if you want Reports to be distributed to an FTP (File Transfer Protocol) Server. If this option is chosen the FTP Copy Settings page is shown next.

11.2 Settings Page

Since different types of delivery require different settings, the layout of the Report Recipient Settings page varies depending on the type of delivery selected. The three possible versions of the page are listed below. Note that distribution by email requires configuration of the Email Server. Select Edit>Email Server from the Report Configuration Tool main interface to open the EMail Server Setup dialog.

Settings Page Email

Settings Page CopyFile

Settings Page CopyFTP

11.2.1 Email

This is the Recipient Settings page as it appears if the delivery type is Email. All that is needed is the Email address of the Recipient.

11.2.1.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.
11.2.1.2 Email Address

Type the email address of the intended Recipient of the Email, or to distribute the Report to more than one email address, enter a CSV list of email addresses.

11.2.2 File

This is the how the Settings page appears if the delivery type is ‘File Copy’. It enables you to configure the location of the distributed file. This can be a local or remote directory. If the directory is remote, you should provide credentials of a user who has Read/Write access to the directory.

11.2.2.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

11.2.2.2 Location

The directory path can be typed into this field directly, or the [Browse] button to the right of it can be used to navigate to the required directory.

It can be the path of a local directory, in which case the Domain Credentials section will be disabled, or it can be a UNC path, in which case the Domain Credentials section is enabled.

11.2.2.3 Browse for Folder/Printer Button

Select this to open a directory browser window that enables you to browse to and/or create a new directory. The selected directory is automatically placed into the Destination/Location field. If the selected Format type was Printer, you can use this button to find a network printer.
11.2.2.4 Domain

Type the name of the network Domain to which the directory defined in the Location field belongs here. For a File Copy type Recipient, these fields are only enabled if the Location is a UNC path. For an FTP Copy type Recipient, these fields are enabled by default.

11.2.2.5 User Name

Type the name of a user that has Read/Write privileges on the network folder defined in the Location field. The Report Scheduler will log into the Domain as this user when copying the Report.

11.2.2.6 Password

Type the password of the user whose credentials will be used to copy the Report file to the desired Location here.

11.2.2.7 Network User Test

Click this button to test the User credentials supplied above. If the test was successful you will see this message if the Recipient is a File Copy type:-

If the Recipient is an FTP Copy type you will see this message:-

11.2.3 FTP

This is how the Settings page appears if the delivery type is ‘FTP Copy’. It enables you to configure the delivery address of the copied file. This is a directory on the FTP Server. If the directory is remote, you should provide credentials of a user who has Read/Write access to the directory.
11.2.3.1 Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.

11.2.3.2 Directory

The directory on the FTP Server to which the Report will be copied.

11.2.3.3 Browse for Folder/Printer Button

Select this to open a directory browser window that enables you to browse to and/or create a new directory. The selected directory is automatically placed into the Destination/Location field. If the selected Format type was Printer, you can use this button to find a network printer.

11.2.3.4 Domain

Type the name of the network Domain to which the directory defined in the Location field belongs here. For a File Copy type Recipient, these fields are only enabled if the Location is a UNC path. For an FTP Copy type Recipient, these fields are enabled by default.

11.2.3.5 User Name

Type the name of a user that has Read/Write privileges on the network folder defined in the Location field. The Report Scheduler will log into the Domain as this user when copying the Report.
11.2.3.6 Password

Type the password of the user whose credentials will be used to copy the Report file to the desired Location here.

11.2.3.7 Network User Test

Click this button to test the User credentials supplied above. If the test was successful you will see this message if the Recipient is a File Copy type:-

![FTP Copy Test](image1)

If the Recipient is an FTP Copy type you will see this message:-

![FTP Copy Test](image2)

11.2.3.8 FTP Server Configuration

This is a list of FTP Server configurations. The DEFAULT_FTP_SERVER object is provided as a default FTP setup, but you have to configure it to add the address of the actual FTP Server to which the Report Scheduler will be copying files.

You can modify this configuration by selecting the DEFAULT_FTP_SERVER object from this list and then clicking the [Modify] button.

11.2.3.9 Add FTP Server Button

If you select this button the FTP Server Configuration Dialog is shown, enabling you to add a new FTP configuration to the list.

11.2.3.10 Modify FTP Server Button

If you select this button the FTP Server Configuration Dialog is shown, enabling you to modify the FTP configuration that has been selected from the list.

11.2.3.11 Current Selection

Type topic text here.

11.2.3.12 FTP Server Configuration Dialog

The FTP Server Configuration Dialog enables you to configure an FTP Server.
11.2.3.12.1 FTP Server Configuration Name

This is the name of the FTP Server configuration. If you are modifying a configuration this field will be disabled, since the name cannot be changed.

11.2.3.12.2 FTP Server Configuration Description

Type a more informative description for the FTP Server configuration here, if you wish.

11.2.3.12.3 FTP Server Address

Type the address of the FTP Server here.

11.2.3.12.4 Active Connection

This option is currently always disabled, and cannot be edited.

11.2.3.12.5 Passive Connection

This option is currently always disabled, and cannot be edited.

11.2.3.12.6 Control Socket

The ID of the socket used by the FTP Server for control purposes.
11.2.3.12.7  Data Socket

The ID of the socket used by the FTP Server for data transport.

11.2.3.12.8  Retries

The number of times that the Report Scheduler should try to secure a connection with the FTP Server in the event of failure.

11.2.3.12.9  Retry Wait Period

The number of milliseconds to wait before successive attempts to connect to the FTP Server.

11.2.3.12.10  Timeout

The number of milliseconds to continue trying to establish a connection with the FTP Server during retry attempts before timing out.

11.3  Alarm Conditions Page

This page enables you to configure alarms for the Report Recipient.

![Recipient Configuration - Alarm Conditions](image)

Report Recipient Wizard

11.3.1  Progress Menu

The menu list on the left of the wizard details the steps required in the configuration of the object. Each menu item refers to a page of the wizard.

As each page is configured and you move on to the next page by clicking on the [Next] button, the previous menu item is displayed in italics, and the next item down the menu is highlighted.
11.3.2 Generate Alarm on Success
Checking this option will add an alarm condition to the 'Configured Alarm Conditions' list that will be generated on the successful distribution of a Report.

11.3.3 Generate Alarm on Error
Checking this option will add an alarm condition to the 'Configured Alarm Conditions' list that will be generated when an error occurs whilst creating a Report.

11.3.4 Configured Alarm Conditions
This is a list of configured Alarm Conditions that will be generated when this Report is created.

11.3.5 Add Alarm Condition Button
This button opens the Alarm Condition Configuration dialog in Add mode.

11.3.6 Modify Alarm Condition Button
This button opens the Alarm Condition Configuration dialog in modify mode.

11.3.7 Delete Alarm Condition Button
This button will delete an Alarm Condition that has been selected from the list of configured Alarm Conditions.

11.3.8 Alarm Condition Configuration Dialog
This dialog enables you to configure a custom Alarm Condition.
11.3.8.1 Alarm Condition Description
An extended description of the Alarm Condition can be typed in here.

11.3.8.2 Alarm Priority
Select the required priority for the Alarm Condition from the drop-down list.

11.3.8.3 Available Status Values
A list of the Status Values that are available to trigger the Alarm Condition.

11.3.8.4 Alarm Condition Status Value
The actual Status Value that will trigger this Alarm Condition.

11.3.8.5 Alarm Condition Status Value Range
A range of Status Values that will trigger the Alarm Condition.
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