



Agile Product Lifecycle Management

Portlet Services Installation and Configuration Guide

v9.2.2.3

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Preface

The Oracle|Agile documentation set includes Adobe® Acrobat™ PDF files. The [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technology/documentation/agile.html) (<http://www.oracle.com/technology/documentation/agile.html>) contains the latest versions of the Oracle|Agile PLM PDF files. You can view or download these manuals from the Web site, or you can ask your Agile administrator if there is an Oracle|Agile Documentation folder available on your network from which you can access the Oracle|Agile documentation (PDF) files.

Note To read the PDF files, you must use the free Adobe Acrobat Reader™ version 7.0 or later. This program can be downloaded from the [Adobe Web site](http://www.adobe.com) (<http://www.adobe.com>).

The [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technology/documentation/agile.html) (<http://www.oracle.com/technology/documentation/agile.html>) can be accessed through Help > Manuals in both the Agile Web Client and the Agile Java Client. If you need additional assistance or information, please contact [support](http://www.oracle.com/agile/support.html) (<http://www.oracle.com/agile/support.html>) (<http://www.oracle.com/agile/support.html>) for assistance.

Note Before calling Agile Support about a problem with an Oracle|Agile PLM manual, please have ready the full part number, which is located on the title page.

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Readme

Any last-minute information about Oracle|Agile PLM can be found in the Readme file on the [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technology/documentation/agile.html) (<http://www.oracle.com/technology/documentation/agile.html>).

Agile Training Aids

Go to the [Oracle University Web page](http://www.oracle.com/education/chooser/selectcountry_new.html) (http://www.oracle.com/education/chooser/selectcountry_new.html) for more information on Agile Training offerings.

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Introduction

This chapter includes the following:

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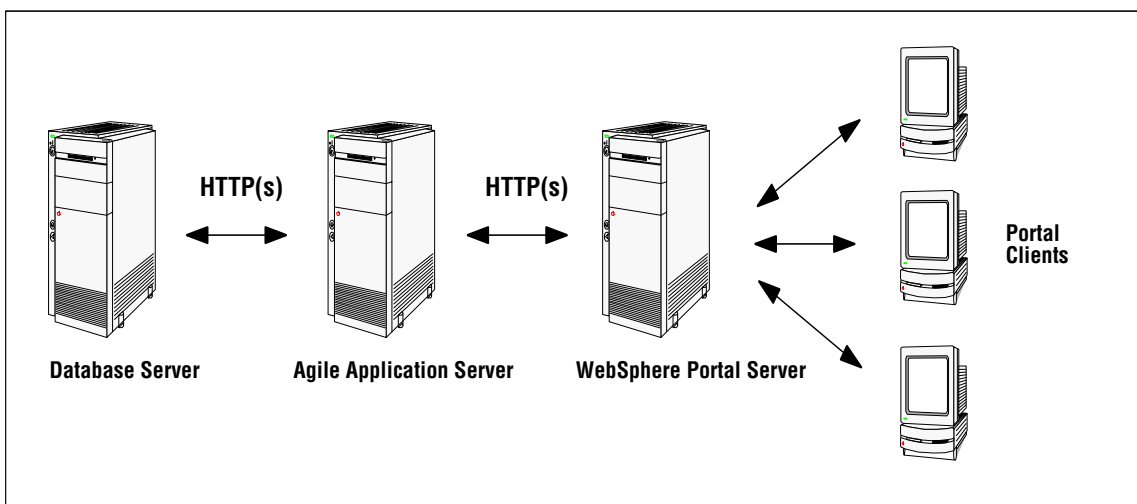
About Agile Portlet Services

A portal is a Web site that provides internal and external users with a single point of access to a company's Web-based resources. The portal's single sign-on provides access to any number of small applications, called portlets, that let users manage various types of information. Users can personalize their own portal pages, making the portal more efficient, usable, and highly tailored to meet their individual needs.

A portal usually contains several portlets. Each portlet provides users access to specific content or actions. Agile provides several predefined portlets that can be integrated with a company's portal. Agile Portlet Services expose commonly-used Agile PLM functionality through a company's portal and allow users to quickly link to specific Agile product content.

The following figure shows a simplified portal system, one that does not include load balancers, application server clusters, proxy Web servers, or LDAP servers.

Simplified portal system



Agile Portlet Services includes the following portlets:

Agile Portlets

Category	Portlet	Description
Search	Advanced Search	Searches for Agile PLM objects by matching one or more field values.
	Quick Search	Searches for Agile PLM objects by specifying a single matching value.
	Saved Search	Displays results for a saved search.
	Search Folder Browser	Allows you to browse search folders and select a particular search to run.
	Search Results	Works in conjunction with Advanced Search, Quick Search, and Search Folder Browser portlets. When you click a search in search portlet, the results appear in the Search Results portlet.
Content	Attachment Files	Shows a selected Attachments table for objects.
	Business Object	Shows an Agile PLM business object (such as an item or change) to view or modify its fields.
Productivity	My Notifications	Shows the current user's Agile PLM notifications.
	My Things to Do	Shows lists of things the current user needs to complete, including Action Items, Program Activities, Requests, and Workflow Routings.
Utility	Bookmarks	Shows the current user's Agile PLM bookmarks.
	Clipboard	Lets you collect Agile PLM objects to later perform actions on them.
	Quick Links	Lets you add links to other portal pages or to external Web pages.
	Quick Navigation	Lets you navigate to bookmarked or recently visited Agile PLM objects, or display the contents of the Clipboard.
	Report Folder Browser	Lets you generate a report from one of the Report folders.
	Single Signon	Allows you to enter a user ID and password to enable single signon between the portal and the Agile PLM server.
	Upload File	Adds a new file to the Agile PLM system.
	User Profile	Lets you view and edit your Agile PLM user profile

What's New

Agile Portlet Services provides the following new features with Agile PLM 9.2.2.3:

- Multiple Values Selection - The User can now filter available values based on string criteria.
- Advanced Search Portlet - The User can now select multiple values to search on a single list field.
- My Bookmarks and Quick Navigations Portlets - The User can now select the folder that the bookmark will be added. The User can create a new folder and delete bookmarks and folders.
- My Things to Do Portlet - This portlet now has My Request.
- My Notifications and Requests Portlet - This portlet is now named My Notifications. The Request portion was moved to the My Things to Do Portlet.

IBM WebSphere Portal Server

Agile Portlet Services are currently supported on IBM WebSphere Portal Enable for Multiplatforms 5.1.0.4 and IBM WebSphere Portal Express.

For complete WebSphere Portal installation instructions, hardware and software requirements, and configuration and troubleshooting information, please see the IBM WebSphere Portal InfoCenter. Use any of the following methods to access the IBM WebSphere Portal InfoCenter:

- Click the InfoCenter button available in the WebSphere Portal installation program.
- Go to the WebSphere Portal InfoCenter URL.
 - WebSphere Portal Enable 5.1.0.4: <http://publib.boulder.ibm.com/infocenter/wpdoc/v510/index.jsp>
 - WebSphere Portal Express 6.01: <http://publib.boulder.ibm.com/infocenter/wspshelp/index.jsp>
- After WebSphere Portal is installed, click Start > All Programs > IBM WebSphere > Portal Server > Information Center.

Portlet Communication and Collaboration

Agile portlets communicate with each other using portlet actions and portlet messages. The portlets work together to share information with each other. For example, the Search Results portlet works with one of the Search portlets (such as the Quick Search portlet) to display a table of search results. If you click one of the search results, the object's contents can appear in a Business Object portlet on the same page.

Note	You can control whether Business Object portlet clears the portlet of its contents if the message received from another portlet (such as a Search portlet) is not supported. For more information, see Setting Agile Portlet Parameters (on page 19).
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Installing and Upgrading Agile Portlet Services

This chapter includes the following:

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Installation Sequence

These instructions assume you have purchased the required hardware and software, and installed IBM WebSphere Portal as well as Agile PLM 9.2.2.3 before beginning to install Agile Portlet Services.

To install and configure Agile Portlet Services:

1. Install Agile PLM 9.2.2.3 and all its server-side components (database, file server, LDAP server, and so on). Agile Portlet Services connect to the Agile Application Server and cannot work without it.

For detailed instructions on how to install the Agile Application Server, see the separate Agile PLM installation guide.
2. Install IBM WebSphere Portal on a separate server from the Agile Application Server.
3. Install Agile Portlet Services (AgilePortletPack2.war) on the WebSphere Portal Server.
4. Configure Agile Portlet Services application parameters.
5. If you are not using an LDAP server to authenticate users, create portal users and user groups. Otherwise, configure the Portal Server to use an LDAP server for authentication.
6. Set up the Agile Portlet Configurator on a Web server so that portlet administrators can launch it to configure portlets easily.
7. Create separate portal pages that use the Agile portlets. Some Agile portlets require configuration before they can be used.

Note On one portal page, you must add the Agile Single Signon portlet. Portal users can then personalize the portlet to log into the Agile PLM server. Otherwise, portal users won't be able to use the Agile portlets.

8. Configure each of the Agile portlets, especially those based on the Business Object portlet. For Business Object portlets, you can edit each portlet's XML configuration or use the separate Agile Portlet Configurator application.

Note The WebSphere Portal Server XML configuration interface can be used to transfer the configuration of one portal to another. This is useful when moving from a development environment to a production environment. For more information about the XML configuration interface, see [Exporting and Importing Portal Configurations using the XML Configuration Interface](#) (on page 46), as well as the IBM WebSphere Portal InfoCenter.

Installing IBM WebSphere Portal

Because WebSphere Portal ships with multiple software components and works with other database, Web server, and LDAP server products, there are many different installation scenarios. For complete installation instructions, please see the IBM WebSphere Portal InfoCenter.

To install WebSphere Portal:

Insert the WebSphere Portal Setup CD and follow the onscreen instructions.

Important Do not install WebSphere Portal Server into a path with spaces (such as "d:\Program Files\WebSphere").

Updating to WebSphere Portal 5.1.0.4

If you are running WebSphere Portal 5.1, you should run two separate fix packs from IBM to update to WebSphere Portal 5.1.0.4. Click the following links to download the fix packs:

- [WebSphere Portal 5.1 Cumulative Fix 1](#)
- [WebSphere Portal 5.1 Cumulative Fix 2](#)

You can also download these fix packs by going to the IBM web site (<http://www.ibm.com/us/>). Search for "WebSphere Portal 5.1 Cumulative Fix 1" and "WebSphere Portal 5.1 Cumulative Fix 2" (both in quotes).

Installing WebSphere Application Server and IBM HTTP Server as a Windows Service

If you are going to run WebSphere Application Server and IBM HTTP Server (if you are installing it) as a Windows service, you must install the product as a user with the following local policy rights:

- Act as part of the operating system
- Log on as a service

The WebSphere Portal installer assigns these local policy rights to your account automatically, but

you will need to log out and log in again before continuing the installation.

Web Server Considerations

You can install the Web server on the portal machine or on a separate machine. If you install the Web server on a remote server, you should also consider installing the WebSphere Application Server plug-in, which takes care of load balancing between remote Application Server instances in a clustered environment. The plug-in will also allow you to change the WebSphere Portal URI.

For more information about WebSphere Application Server plug-in, see the IBM WebSphere Portal InfoCenter.

WebSphere Application Server Tuning

After you install WebSphere Portal Server, you should tune the installation of WebSphere Application Server to optimize performance.

Use the WebSphere Application Server administrative console to tune the server.

To access the WebSphere Application Server administrative console:

1. Stop the WebSphere Portal Server.
2. Start the WebSphere Application Server.
3. In a Web browser, type the following URL:
`http://<fully_qualified_hostname>:9090/admin`
 where *<fully_qualified_hostname>* is the fully qualified host name of the server running the WebSphere Application Server.
4. Log in using the administrative user ID and password.
5. Tune the WebSphere Application Server using the recommended settings in the table below.
6. Save the WebSphere Application Server settings.
7. Stop the WebSphere Application Server.
8. Start the WebSphere Portal Server.

Category	Parameter	Recommended Setting	How to Configure in the Admin Console
Java Virtual Machine	Maximum Heap Size	1 Gb or more	Servers > Application Servers > WebSphere_Portal > Process Definition > Java Virtual Machine
	Generic JVM Arguments	-Xnoclassgc 1	Servers > Application Servers > WebSphere_Portal > Process Definition > Java Virtual Machine

Category	Parameter	Recommended Setting	How to Configure in the Admin Console
Servlet Caching	Enable Servlet Caching	Enabled (make sure the box is checked)	Servers > Application Servers > WebSphere_Portal > Web Container > Servlet Caching
Dynamic Cache Service	Enable Service at Server Startup	Enabled (make sure the box is checked)	Servers > Application Servers > WebSphere_Portal > Dynamic Cache Service > Startup State
Session Management	Session Timeout	10 minutes	Servers > Application Servers > WebSphere_Portal > Web Container > Session Management
Thread Pool	Maximum Size	70	Servers > Application Servers > WebSphere_Portal > ORB Service > Thread Pool
JDBC Providers	Statement Cache Size	500-1000 2	Resources > JDBC Providers > JDBC_provider > Data Sources > data_source
	Max Connections	25 or more 3	Resources > JDBC Providers > JDBC_provider > Data Sources > data_source > Connection Pool

-
- Note** Disables class garbage collection, making class reuse more available, and slightly improving performance.
- Note** You can monitor the cache size in Tivoli Performance Viewer to see if it's large enough.
- Note** Applies only if you migrate from the default Cloudscape database to an Oracle database. Otherwise, use the default setting.
-

Launching and Verifying the WebSphere Portal

The best way to verify that WebSphere Portal has been installed and is working properly is to launch your portal and sign in.

To launch WebSphere Portal:

1. Make sure the Web server and WebSphere Portal server are running.

2. Open a browser and go to the WebSphere Portal URL:

`http://<hostname>:<port>/<baseURI>/<homepage>`

For example, if you accepted the default values during installation, enter the following URI:

`http://<hostname>:9081/wps/portal`

The portal should load in the browser.

3. Click Log In. Enter the administrative user ID and password. Click Log In.

If you have trouble either loading the WebSphere Portal in the browser or logging in as the administrator, see the IBM WebSphere Portal InfoCenter for troubleshooting information.

Configuring the WebSphere Portal for LDAP

If you install an LDAP server to manage users for the Agile Application Server, you can also use it for authentication on the WebSphere Portal. The same LDAP users can then access both systems.

If the portal server will be integrated with LDAP, install the software as a user that exists within the LDAP environment. Note the user ID and password so that you can install WebSphere Fix Packs when necessary.

For more information about setting up LDAP for the WebSphere Portal, see the IBM WebSphere Portal InfoCenter.

Creating Portal Users and User Groups

On a production server, WebSphere Portal supports authentication using an LDAP accessible directory. Ordinarily, you would use the same LDAP server to maintain users for both the Agile Application Server and the WebSphere Portal, thereby simplifying authentication for both systems. If you install WebSphere Portal for the purposes of portlet development, an LDAP directory is not required. In such an installation scenario, the portal administrator must define the users and user groups that use Agile Portlet Services. On a development server, users and user groups are stored in the WebSphere Portal database.

The portal administrator can use the Access Control List portlet to control the access rights that users and user groups have for all portal resources, such as pages, and portlets. You can assign different access rights to each user or user group for each type of resource. Users in a group inherit the access rights assigned to the group.

For more information about WebSphere access control, see the IBM WebSphere Portal InfoCenter.

To create a portal user:

1. Select Administration > Access > Users and Groups.
2. Click the link for All Authenticated Portal Users.
3. Click New User.
4. Enter values for User ID, Password, Confirm Password, First Name, and Last Name, which are all required fields. For Preferred Language, select English. Optionally, specify the user's email address. Click OK.

To create a user group:

1. Select Administration > Access > Users and Groups.
2. Click the Root link if it is not already selected.
3. Click New Group.
4. Type a name in the Group Name field, and then click Create Group.
5. In the User Groups list, click the name of the group you just created. Click Add Member.
6. Select users by checking the Select box to the left of the user name. Click OK.

To assign access rights to users and user groups:

Select Administration > Access > User and Group Permissions. See User and Group Permissions portlet help for detailed instructions on using the portlet.

Note	If you do not assign access rights to users, they will not be able to view Agile portlets and pages. Only the portal administrator will have rights to those resources.
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Installing Agile Portlet Services

Based on the license key you used to install Agile PLM 9.2.2.3 and its service packs, Agile Portlet Services are automatically installed on the Agile Application Server. All Agile portlets are contained in one file, AgilePortletPack2.war. Once you install the file, you must use WebSphere Portal Administration to install the portlets on the portal.

To install Agile Portlet Services on WebSphere Portal Enable 5.1.0.4:

Install Agile PLM 9.2.2.3. For installation instructions, refer to the separate Agile PLM installation guide.

Agile Portlet Services files are installed into the agile_home\Portlet_51 folder on the Agile Application Server.

1. On the Agile Application Server, open a browser window and go to the WebSphere Portal URL. The default URL is: `http://<hostname>:9081/wps/portal`
2. Click Log In. Enter the administrative user ID and password. Click Log In.
3. Select Administration > Portlet Management > Web Modules > Install.
4. Click the Browse button to select the AgilePortletPack2.war file located in the agile_home\Portlet_51\war folder on the Agile Application Server.

If the Agile Application Server is hosted on BEA WebLogic Server, select the AgilePortletPack2.war file located in the agile_home\Portlet_51\war\weblogic folder.
5. Click Next.

The page lists the Agile portlets that will be installed from the WAR file you selected.
6. Click Finish.

To install Agile Portlet Services on WebSphere Portal Express 6.01:

1. Install Agile PLM 9.2.2.3. For installation instructions, refer to the separate Agile PLM

installation guide.





Agile Portlet Services files are installed into the agile_home\Portlet_51 folder on the Agile Application Server.

2. On the Agile Application Server, open a browser window and go to the WebSphere Portal URL. The default URL is: <http://hostname:10038/wps/portal>
3. Click Log In. Enter the administrative user ID and password. Click Log In.
4. Select Administration > Portlets > Install.
5. Click the Browse button to select the AgilePortletPack2.war file located in the agile_home\Portlet_50\war folder on the Agile Application Server.
If the Agile Application Server is hosted on BEA WebLogic Server, select the AgilePortletPack2.war file located in the agile_home\Portlet_51\war\weblogic folder.
6. Click Next.
The page lists the Agile portlets that will be installed from the WAR file you selected.
7. Click Install.

Setting Agile Portlet Services Application Parameters

Agile Portlet Services has several application parameters that are crucial to the successful operation of all Agile portlets. If any one of the application parameters is configured incorrectly, it can cause the portlets to malfunction or fail to connect to the Agile PLM server.

To set Agile Portlet Services application parameters on WebSphere Portal Enable 5.1.0.4:

1. After Agile portlets are installed, log into the WebSphere Portal as an administrative user.
2. Select Administration > Portlet Management > Applications.
3. Search for “AgilePortlets 2.1”.
4. Click the  Edit Portlet Application icon.
5. Specify parameters shown in the table below.
 - The parameter values are read-only. To change a parameter value, do this:
 - Copy the parameter name, and paste it into a text editor (such as Notepad).
 - Click the  Delete Parameter icon to remove the parameter. Click OK to confirm.
 - Click OK to save changes.
 - Click the  Edit Portlet Application icon again.
 - Copy the parameter name from the text editor, and paste it into the New Parameter text box.
 - Enter the new value for this parameter in the New Value text box.
 - Click  Add to add the new parameter.
6. When you are finished modifying parameters, click OK.

To set Agile Portlet Services application parameters on WebSphere Portal Express 6.01:

1. After Agile portlets are installed, log into the WebSphere Portal as an administrative user.
2. Select Administration > Portlets > Manage Applications.

3. In the Web Modules list, select AgilePortletPack2.war. You can search for it if it's not listed.
4. In the Portlet Applications Belonging to the Selected Web Module list, select AgilePortlets 2.1 and click Modify Parameters.
5. Specify parameters shown in the table below.
6. Click Save. Agile portlets are now configured to connect to your Agile server.

Parameter	Description
VaultSlotName	<p>This is the name of the Credential Vault slot. Agile's Single Signon Portlet creates a slot with this name in the Credential Vault automatically. The default slot name is AgilePLMSlot.</p> <p>Note: Generally, you should not modify the value for VaultSlotName. If you specify a different slot name, you will need to create all user credentials again.</p>
download.javaPlugin.url	<p>Enter the location of the Java plugin to use for client-side browsers. The Gantt Chart applet uses this URL to download Java Runtime Environment (JRE) version 1.4.2 if the client computer does not have the proper version installed.</p> <p>Default: http://java.sun.com/j2se/1.4.2/download.html</p>
UnzipFilesOnUpload	<p>If you upload a ZIP file to the Agile File Management server, this parameter determines whether a checkbox option will appear in the portlet to allow you to unzip the file automatically. Enter true (the default) or false.</p>
portletConfiguratorURL	<p>Enter the URL for the Portlet Configurator JNLP file. This URL makes it possible to launch the Portlet Configurator applet from the Business Object portlet configuration page to configure Agile portlets. Otherwise, you can configure Agile portlets by editing the XML configuration file.</p> <p>Example:http://plm.company.com/configurator/configurator.jnlp</p>
portalAdministratorEmail	<p>Enter the email address of the portal administrator. This address is used to notify the portal administrator of any errors that occur with Agile portlets.</p>
createMultipleFileFoldersOn-Upload	<p>If you upload files to the Agile File Management server, this parameter determines whether a checkbox option will appear in the portlet to allow you to add the files to one file folder or multiple file folders. Enter true (the default) or false.</p>
help.base.url	<p>Enter the base URL for the Web server location where Agile portlets access online help files. Each portlet can be configured to access a specific help file located relative to this base URL.</p> <p>Example:http://portalserver/PortletsHelp</p>

Parameter	Description
ppm.weekendDays	<p>Enter two comma-delimited integers that represent the days of the week that are considered weekends by the Agile Product Portfolio Management (PPM) solution. Weekend days are not counted when Agile PLM calculates start and end dates based on the number of business days estimated for a task.</p> <p>Here is the list of integers for the days of the week:</p> <p>0=Sunday 1=Monday 2=Tuesday 3=Wednesday 4=Thursday 5=Friday 6=Saturday</p> <p>Default: 0,6</p>
proxy.server.url	<p>Enter the URL used to connect to the Agile server. Enter the URL in this format:</p> <p>Format: <protocol>://<serverName>:<port>/<virtualPath></p> <p>where</p> <ul style="list-style-type: none"> ▫ <i>protocol</i> is HTTP or HTTPS. ▫ <i>serverName</i> is the name of the Agile PLM server computer, not the proxy server. ▫ <i>port</i> is the port number used for the specified server. Default ports are: IBM WebSphere Application Server = 9080 Oracle Application Server = 7777 BEA WebLogic Server = 7001 ▫ <i>virtualPath</i> is the virtual path for your Agile server. The virtual path is specified when the Agile system is installed. By default, the virtual path is "Agile". <p>Examples:</p> <p>Oracle Application Server: http://plm.company.com:7777/Agile BEA WebLogic Server: http://plm.company.com:7001/Agile</p>

Parameter	Description
server.timeout	<p>The Agile PLM server session timeout value. Do not confuse this with the portal session timeout. The Agile PLM server will timeout after a specified number of minutes. The portal administrator can use this parameter to align the session timeout from Agile portlets with that of the Agile PLM server.</p> <p>To specify a timeout value, enter a positive number in minutes. To use the same timeout setting as the application server, specify a negative value. To never timeout, enter zero (0).</p> <p>Default: 60 (minutes)</p>

Setting Application Parameters for Copies of Agile Portlets

When you make a copy of a portlet, such as the Business Object portlet or Advanced Search portlet, WebSphere Portal Server also makes a copy of the portlet application, along with its application parameters. If you subsequently make a change to the portlet application parameters, you must make the same change to every copy of the portlet application.

Note When you copy a portlet and consequently make a copy of the AgilePortlets application, you can rename the new application to identify the portlet it is associated with.

Setting Up the Agile Portlet Configurator

The Agile Portlet Configurator provides an easy-to-use graphical user interface for configuring the Business Object portlets, which has many configuration options. When you install Agile Portlet Services, the Agile Portlet Configurator files are installed into the following folder:

- WebSphere Portal Enable 5.1.0.4: agile_home\Portlet_51\configurator
- WebSphere Portal Express 6.01: agile_home\Portlet_51\configurator

Before you can launch the Agile Portlet Configurator applet, you need to add the files to your Web server and perform some configuration steps. You can use the Agile Portlet Configurator to configure only Agile Business Object and User Profile portlets. It cannot be used to configure other portlets.

To set up the Agile Portlet Configurator:

1. Configure your Web server so that it handles JNLP files. This is necessary so that Java Web Start can successfully download the application classes from the network and install it on your computer. For instructions on setting the JNLP MIME type for both IIS and Apache Web servers, see "Configuring the JNLP MIME Type" below.

Web Server	Default docroot directory
Internet Information Server (IIS)	c:\inetpub\wwwroot
IBM HTTP Server	c:\IBMHttpServer\htdocs

Web Server	Default docroot directory
Apache Web Server	c:\Apache\htdocs

2. In the `<docroot>\configurator` folder, open the `configurator.jsp` file, and change the `codebase` and `href` parameters in the `jsp` tag to reference the correct locations on your Web server. See the text in bold below. After you edit the file, save it.

```
<?xml version="1.0" encoding="utf-8"?>
< jsp spec="1.0+" codebase="http://webserver/configurator"
href="http://webserver/configurator/configurator.jsp">
  <information>
    Product CollaborationAgile Portlet Configurator</title>
    <vendor>Agile Software Corporation</vendor>
    <description>Agile Portlet Configurator</description>
    <description kind="tooltip">Agile Portlet
Configurator</description>
    <!--<icon href="photonpc64.gif"/>-->
    <offline-allowed/>
  </information>
  <security>
    <all-permissions/>
  </security>
  <resources>
    <j2se version="1.3+" max-heap-size="640m"/>
    <jar href="configurator.jar"/>
    <jar href="AgileAPI.jar"/>
    <jar href="crimson.jar"/>
    <jar href="jaxp.jar"/>
    <jar href="xalan.jar"/>
  </resources>
  <application-desc main-class=
"com.agile.ui.portal.portlets.bizObject.configure.PortletConfiguration
Applet">
    </application-desc>
</jsp>
```

3. Set the `portletConfiguratorURL` parameter for Agile Portlet Services to the same URL you used in the previous step. For instructions on how to change the `portletConfiguratorURL` application parameter, see "[Setting Agile Portlet Services Application Parameters](#) (on page 11)".
4. Test whether the Agile Portlet Configurator is working by opening a browser and typing the following URL:

<http://Web Server/configurator/configurator.jsp>

The Portlet Configurator login dialog box appears.

Note	If the Portlet Configurator doesn't load successfully, make sure the URLs specified in the configurator.jnlp file and the portletConfiguratorURL parameter match one another and are correct. Also, make sure Java Runtime Environment (JRE) 1.4.2 or later is installed on the client machine. For more troubleshooting information about the Portlet Configurator, see "Troubleshooting".
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5. To log in, enter a valid Agile PLM user name and password. For the Server URL, type the same URL used for the serverURL application parameter (for example, <http://plm.company.com:7777/Agile>). Click OK.

The Portlet Configurator window appears.

Configuring the JNLP MIME Type

A JNLP file is an XML document that describes a Java application to be launched by Java Web Start. To successfully download and install applications using Java Web Start, you must configure the JNLP MIME type for your server.

To configure the JNLP MIME type on Windows:

1. Choose Start > All Programs > Administrative Tools > Internet Information Services (IIS) Manager.
The Internet Information Services (IIS) Manager window appears.
2. Expand the folder for Internet Information Services > servername.
3. Select the Web Sites > Default Web Site folder, right-click, and choose Properties from the shortcut menu.
The Default Web Site Properties dialog box appears.
4. Click the HTTP Headers tab.
5. Click the MIME Types button.
The MIME Types dialog box appears.
6. Click the New button.
7. In the Extension field, type `jnlp`. In the MIME Type field, type `application/x-java-jnlp-file`. Click OK.
8. The new file type appears in the Registered MIME Types box. Click OK to close the MIME Types dialog box.
9. Click OK to close the Default Web Site Properties dialog box.
10. Restart IIS.

To configure the MIME type on Solaris:

1. Locate the `mime.types` file in the `conf` directory of the Apache Web server.
2. Add the following line to the `mime.types` file:
`application/x-java-jnlp-file JNLP`
3. Restart the Apache Web server.

Upgrading Agile Portlet Services to Agile PLM 9.2.2.3

To upgrade an existing installation of Agile Portlet Services to 9.2.2.3, follow these steps:

1. Upgrade your Agile PLM application server and database to Agile PLM 9.2.2.3.
2. (Optional) Upgrade from WebSphere Portal Express 5.022 to WebSphere Portal Enable 5.1.0.2.
3. Log into the WebSphere Portal as an administrator and uninstall any existing Agile PLM 9.0 or 9.1 portlets.
4. Install new Agile PLM 9.2.2.3 portlets. For instructions, see [Installing Agile Portlet Services](#) (on page 10).
5. Set application parameters for Agile Portlet Services. See [Setting Agile Portlet Services Application Parameters](#) (on page 11) for more details.
6. Update Agile PLM portlet pages for your portal.
7. If you configured the Business Object Portlet for your portal, you can update XML configuration files to the Agile PLM 9.2.2.3 format using the XML Upgrade Tool.

Using the XML Upgrade Tool

The XML Upgrade Tool is a simple command-line Java utility for upgrading Business Object Portlet XML configuration files from earlier versions to 9.2.2.3. The main difference in the Business Object Portlet configuration is that it now supports configurations for multiple classes. You can use the XML Upgrade Tool to convert an old XML configuration file to the new format. You can also concatenate multiple XML configuration files together into one new XML file.

To update an existing Business Object Portlet XML configuration file to Agile 9.2.2.3 format:

1. On the computer where Agile Portlet Services are installed, open a command prompt window.
2. Change to the XML Upgrade Tool folder:
 - WebSphere Portal Enable 5.1.0.4: agile_home\Portlet_51\xmlupgradetool
 - WebSphere Portal Express 6.01: agile_home\Portlet_51\xmlupgradetool
3. Run the following command:

```
java -classpath ./XMLUpgradeTool.jar;./jdom.jar
com.agile.ui.portal.portlets.bizObject.configure.tools.XMLU
pgradeTool file1 [ file2...filen]
```

At least one input file argument is required. Files must use fully qualified paths, such as c:\temp\bop1.xml. Separate multiple files with spaces. If you specify multiple files, the XML Upgrade Tool combines them into one output file.

The output file is created in the same directory where you ran the XML Upgrade Tool. The name of the output file is the concatenation of the input filenames plus “_<release version>.xml”.

The following example shows how to combine two files named bop1.xml and bop2.xml into a new output file named bop1.xml_bop2.xml_9222.xml.

```
java -classpath ./XMLUpgradeTool.jar;./jdom.jar
com.agile.ui.portal.portlets.bizObject.configure.tools.XMLU
pgradeTool c:\temp\bop1.xml c:\temp\bop2.xml
```


After you create the new Agile 9.2.2.3 XML configuration file, you can copy it into the Portlet

Configurator to configure an Agile 9.2.2.3 Business Object Portlet.

Updating Agile Portlet Services

If you receive an updated Agile Portlet Services WAR file and you have already installed Agile portlets on the WebSphere Portal, you do not need to reinstall them. Instead, follow these steps to update Agile portlets.

To update the Agile Portlet Services WAR file on WebSphere Portal 5.1.0.4:

1. Open a browser window and go to the WebSphere Portal URL. The default URL is `http://<hostname>:9081/wps/portal`.
2. Click Log In. Enter the administrative user ID and password. Click Log In.
3. Select Administration > Portlet Management > Web Modules.
4. Find AgilePortletPack2.war, and then click the  Update Web Module icon.
5. Click the Browse button to select the updated AgilePortletPack2.war file. Click Next.
6. The Manage Web Modules page lists the portlets that will be updated from the WAR file you selected. Click Finish to begin updating them.
7. After installation is finished, stop the WebSphere Portal and clear the Agile SDK cache on the portal server. See the next section.

To update the Agile Portlet Services WAR file on WebSphere Portal 6.01:

1. Open a browser window and go to the WebSphere Portal URL. The default URL is `http://<hostname>:10038/wps/portal`.
2. Click Log In. Enter the administrative user ID and password. Click Log In.
3. Select Administration > Portlets > Manage Applications.
4. In the Web Modules list, select AgilePortletPack2.war and then click Update.
5. Click the Browse button to select the updated AgilePortletPack2.war file. Click Next.
6. The Manage Portlet Applications tab lists the portlets that will be updated from the WAR file you selected. Click Install.
7. After installation is finished, stop the WebSphere Portal and clear the Agile SDK cache on the portal server.

Clearing the Agile SDK Cache

Whenever you update the Agile Portlet Services WAR file by installing a new version, you must clear the Agile SDK cache on the WebSphere Portal computer. When you delete the Agile SDK cache, it forces Agile portlets to use the network class loader to download the latest classes, which allow Agile portlets to connect to the updated Agile 9.2.2 server.

To clear the Agile SDK cache:

1. Stop the WebSphere Portal.
2. Open a Command Prompt window.



3. Change to the %temp% directory:
`cd %temp%`
4. Delete the Agile SDK cache subdirectory:
`del AgileSDK.cache`
5. You are prompted “Are you sure?” Enter Y for Yes.
6. Restart the WebSphere Portal.

Setting Agile Portlet Parameters

Before placing Agile portlets on a page to define the layout of your portal, you should set the parameters for each portlet you intend to use.



To modify portlet parameters for WebSphere Portal 5.1.0.2:

Select Administration > Portlet Management > Portlets.

1. Click the  Configure Portlet icon for an Agile portlet. The Manage Portlets page appears.
2. For the parameter you want to change, click the  Edit Parameter icon.
3. In the Value field, enter a new value.
4. Click OK.

To modify portlet parameters for WebSphere Portal 5.022:

1. Select Administration > Portlets > Manage Portlets.
2. Select a portlet, and click Modify Parameters. The configuration parameters window opens.
3. Edit the parameter values.
4. Click Save.

Note	Several portlet parameters are designed to be modified only from the portal page when the portlet is in Configure mode. To enter configure mode, go to the portal page and click the portlet's  wrench icon. Other users can personalize the portlet by clicking the  pencil icon in the portlet's title bar.
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Parameter	Description	Agile Portlets
clearPortletContentsIfMes	If set to true , this parameter clears the portlet of its contents if a message received from another portlet (such as a Search portlet) is not supported. Default: false	Business Object
customTitle	An optional custom title for the portlet that appears in the portlet's title bar.	All
disableTableStatusFlags	If set to true , the portlet disables status flag attributes such as Has Attachments and Has Action Items. Default: false (status flag attributes are enabled)	Business Object Saved Search Search Results
help.relativePath	The relative path of this portlet's help file. The relative path is combined with the help.base.url value to create the complete URL for the help file.	All
help.url	The complete URL for an online help file for this portlet. This URL overrides the URL specified by the help.relative.path portlet parameter and the help.base.url application parameter.	All
mTTConfiguredViews	Specify the comma-delimited series of selected views for the portlet. Default: 1,0,2 0 = My Workflow Routings 1 = My Action Items 2 = My Activities	My Things To Do
mTTPossibleViews	Specify the comma-delimited series of possible views for the portlet. Default: 1,0,2 0 = My Workflow Routings 1 = My Action Items 2 = My Activities	My Things To Do

notifConfiguredViews	Specify the comma-delimited series of selected views for the portlet. Default: 0,1 0 = My Notifications 1 = My Requests	My Notifications and Requests
notifPossibleViews	Specify the comma-delimited series of possible views for the portlet. Default: 0,1 0 = My Notifications 1 = My Requests	My Notifications and Requests
objectType	The currently selected Agile object type used in the Advanced Search portlet. Not Supported. Use the portlet's Configure mode to configure it.	Advanced Search
<i>pageid_Report_cstRptCfgEnabled</i>	Equivalent to the Enable Customer External Reports checkbox in the portlet's Configure mode. A separate <i>cstRptCfgEnabled</i> parameter is provided for each portal page on which the Report Folder Browser portlet has been added. Possible values for the parameter are 0 (false) and 1 (true). Default: 0	Report Folder Browser
<i>pageid_Report_rootFolderId</i>	Select a report folder by specifying its numeric ID. To find the ID number of a report folder, move the mouse over a folder in the Report Folder Browser portlet. The ID number appears in the browser's status bar. A separate <i>rootFolderId</i> parameter is provided for each portal page on which the Report Folder Browser portlet has been added. The portlet's Configure mode offers a much easier graphical user interface for selecting a report folder.	Report Folder Browser

queryCriteria	<p>Defines the search criteria used for the Advanced Search portlet.</p> <p>Not Supported. Use the portlet's Configure mode to configure it.</p>	
quickLinksXml	<p>Defines the XML configuration for the Quick Links portlet.</p> <p>Not Supported. Use the portlet's Configure mode to configure it.</p>	Advanced Search
quickSearchInfoText	<p>Sample query information to help users enter a value to search for in the Quick Search portlet. This sample query text appears when you click the Show Sample Queries link in the portlet.</p>	Quick Links
ReportServerSettingKeys	<p>Aggregates the keys that have been set for all portal pages on which the Report Folder Browser has been added.</p> <p>Not Supported. Use the portlet's Configure mode to configure it.</p>	Quick Search
savedSearchId	<p>The ID number of a saved search. The results of the search will appear in the Quick Navigation portlet.</p> <p>Not Supported. This parameter is obsolete and does not affect the Quick Navigation portlet.</p>	Report Folder Browser
scrollBarHeightLimit	<p>The height of portlet data. If portlet data exceeds the specified height, a vertical scroll bar appears.</p> <p>This parameter does not set the height of the portlet. To do that, you must edit the page layout.</p>	Quick Navigation
scrollBarWidthLimit	<p>The width of portlet data. If portlet data exceeds the specified width, a horizontal scroll bar appears.</p> <p>This parameter does not set the width of the portlet. To do that, you must edit the page layout.</p>	Quick Navigation Report Folder Browser Search Folder Browser

searchableAttributes	<p>The list of available attributes that can be used in search criteria.</p> <p>Not Supported. Use the portlet's Configure mode to configure it.</p>	<p>Quick Navigation</p> <p>Search Folder Browser</p>
searchConfigurationXML	<p>Defines the XML configuration for the Advanced Search portlet.</p> <p>Not Supported. Use the portlet's Configure mode to configure it.</p>	Advanced Search
Search_savedSearchId	<p>Select a saved search by specifying its numeric ID.</p> <p>To find the ID number for a saved search, move the mouse over a saved search in the Search Folder Browser portlet. The ID number appears in the browser's status bar.</p> <p>The portlet's Configure mode offers a much easier graphical user interface for selecting a saved search.</p>	Advanced Search
searchDisplayAttributes	<p>The list of available attributes that can be used in search results.</p> <p>Not Supported. Use the portlet's Configure mode to configure it.</p>	Saved Search
simpleSearchInfoText	<p>A brief message that provides information about a Simple Search to help users of this portlet.</p> <p>Not Supported. Simple Search is no longer an option of the Advanced Search portlet.</p>	Advanced Search
supportedSearchTypes	<p>Specify the Agile object types that can be searched for in the Advanced Search portlet.</p> <p>Not Supported. Use the portlet's Configure mode to configure it.</p>	Advanced Search

tableHeight	<p>The height of the table that appears in the portlet. If the table exceeds the specified height, a vertical scroll bar appears.</p> <p>To enable tableHeight and tableWidth parameters, both must be set to nonzero values.</p> <p>Default: 0 (disabled)</p> <p>This parameter does not set the height of the portlet. To do that, you must edit the page layout.</p>	Advanced Search
tableWidth	<p>The width of the table that appears in the portlet. If the table exceeds the specified width, a horizontal scroll bar appears.</p> <p>To enable tableHeight and tableWidth parameters, both must be set to nonzero values.</p> <p>Default: 0 (disabled)</p> <p>This parameter does not set the width of the portlet. To do that, you must edit the page layout.</p>	Business Object Saved Search Search Results
		Business Object Saved Search Search Results

Creating Portal Pages

The WebSphere Portal has a hierarchical structure of nodes. Each node is an element in the portal navigation tree. There are three types of nodes:

- page — Displays content in the form of portlets.
- label — Container for other nodes. Labels are used to group nodes in navigation.
- URL — An addressable resource, such as external Web pages or pages within the portal site.

The topmost node in the portal navigation tree is the content root. After you install WebSphere Portal, the following nodes appear under the content root:

- **My Portal** — a label containing portlets for general use. This is the default page displayed after login.
- **Administration** — a label used containing pages with portlets used to administer the WebSphere Portal.
- **Page Customizer** — a label with child pages used to manage page content and layout.
- **Page Properties** — a page used to edit the properties of portal page.
- **Organize Favorites** — a page containing the Organize Favorites portlet, which lets portal users organize their favorite labels and URLs. You can access the Organize Favorites page using the My Favorites list in the banner.

Users without administrative privileges can access only the My Portal node. Administrators can use links in the banner to switch between Administration and My Portal.

A page displays content, or portlet applications. Each page can contain one or more portlets. To view a page, first select the place. Once the place is selected, you can click a page within the place.

To create an Agile label in My Portal:

1. Select Administration > Portal User Interface > Manage Pages.
2. Click the My Portal label.
3. Click New Label.
4. Type Agile and click OK.
5. The Properties page appears. Click OK.

To add a page to the Agile label:

1. Select Administration > Portal User Interface > Manage Pages.
2. Select Content Root > My Portal > Agile.
3. Click New Page.
4. Type the name of the page and click OK. For example, type Programs to create a page showing Agile programs.
5. The Properties page appears. Click OK.

Note	Portal pages can be imported from a portal configuration file using IBM's XML Access tool. For more information, see " Exporting and Importing Portal Configurations using the XML Configuration Interface (on page 46)".
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Editing the Layout of a Page

WebSphere Portal lets you control the layout of portal pages, select and arrange portlets on a page, and edit portlets that require configuration.

Pages can contain columns, rows, and portlets. You can fill the columns and rows with portlets or other columns and rows. You can also create nested pages.


To create a page with Agile portlets, you must select a logical group of portlets to display Agile content. A page you create might include:

- the Single Signon portlet, which connects a user to the Agile PLM server. Only one Single

Signon portlet is needed for your portal. The same connection is used for all Agile portlets on multiple pages.

- a Search portlet to locate Agile PLM content. Quick Search and Advanced Search are examples of Search portlets.
- a Content portlet, such as a copy of the Business Object portlet, to display data for a selected object.

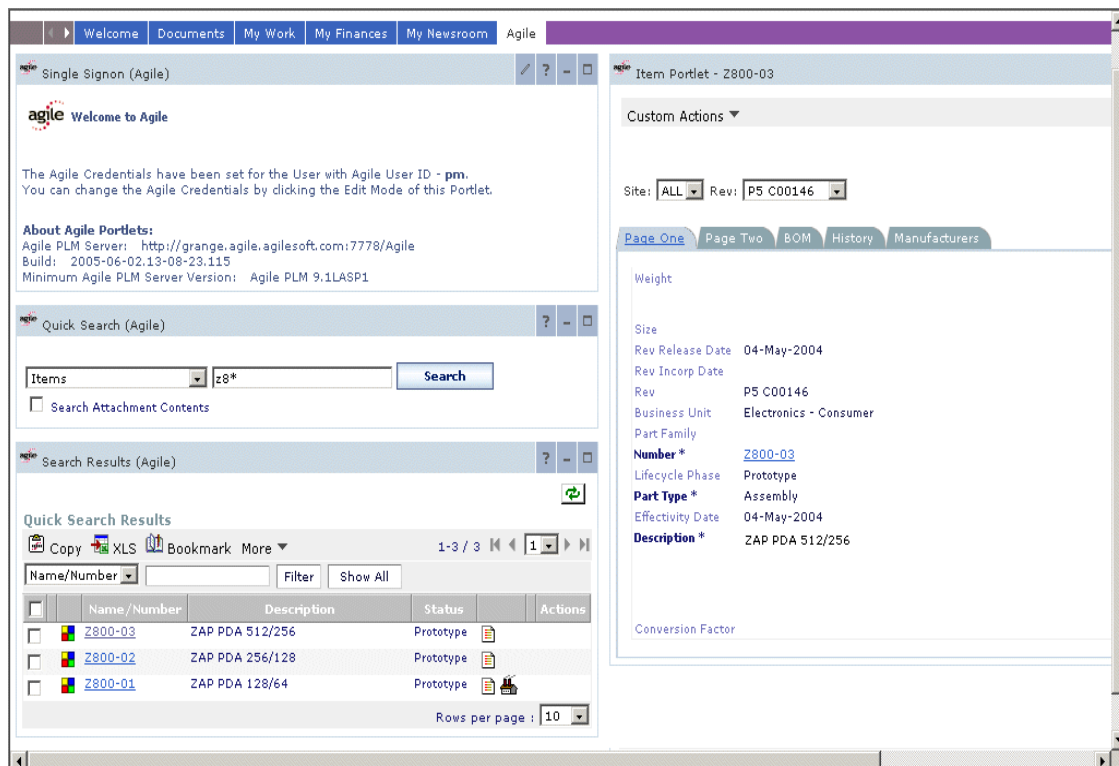
To edit the layout of a portal page:

1. Select Administration > Portal User Interface > Manage Pages.
2. Select a portal page to edit.
3. Click the  Edit Page Layout icon.


Some of the options you can select on the page include:

- Layout template: Select from several preconfigured page layouts.
- Add portlets: Select portlets to add to the page.
- Show layout tools: Shows advanced layout tools for creating and editing page containers. This option overrides the preconfigured layout templates. For example, you can set the column width.

The following figure shows an example of a two-column layout for a page that includes the Single Signon, Quick Search, Search Results, and Item (Business Object) portlets.



Administering Pages

The portal administrator can permit specified users to change the layout of a page. If you have authority to change a page, you can use Administration > Manage Pages to modify the layout. For each page, you can click the  Set Page Permission icon to specify the permissions that users have to edit the page.

For more detailed information about creating and modifying places and pages, see the “Managing Pages, Layout, and Content” topic in the IBM WebSphere Portal InfoCenter.

Setting Resource Permissions

In addition to creating users and user groups, the portal administrator can specify permissions for all types of portal resources, including pages and individual portlets. This allows the portal administrator to set the level of personalization for each page or each portlet.

To access Resource Permissions for your portal, use one of these methods:

- Choose Administration > Access > Resource Permissions.
- Click Assign permissions in the page banner.
- Click the Set Permission icon in the Manage Pages portlet.

For more detailed information about setting resource permissions, see the “Authorization” topic in the IBM WebSphere Portal InfoCenter.

Using Custom Themes and Skins

Portal pages also have themes and skins, which are usually created by the Web designer of the portal. Themes control the look and feel of the portal, including colors and fonts. For each theme, there are one or more skins that define the style of the area surrounding individual portlets.

To set the default theme and skin for the portal:

Select Administration > Portal User Interface > Themes and Skins.

If you create custom themes or skins, you can test them on a development system. After the themes and skins are fully developed and tested, you must update and redeploy the WebSphere Portal EAR file with the new themes and skins.

For more information about custom themes and skins, see the IBM WebSphere Portal InfoCenter.

Agile PLM Administration Settings Related to Portlets

After Agile Portlet Services are successfully installed and configured, the Agile PLM administrator must configure the application server to interface with the portal properly. The administrator must perform the following tasks to ensure that Agile PLM users can launch the portal Web site from email notifications they receive.

The Preferred Client user preference specifies which Agile PLM client to launch from email notifications. The available choices are Java Client, Web Client, or Portal Client. The Preferred Portal URL user preference specifies which portal URL to go to if the user selected Portal Client as

his preferred client.

For more information about Agile PLM administration, see the *Agile PLM Administrator Guide*.

To add a portal URL to the Agile PLM server:

1. Log into the Agile Java Client as an administrator.
2. Choose Admin > Server Settings > Locations > Portals.
3. Click the New toolbar button to add a portal URL.
4. In the Name field, type the name of the portal.
5. In the Portal field, type the portal URL.
6. In the Enabled list, select Yes.
7. Click OK.

To configure the Agile PLM portal as your preferred Agile PLM client for email notifications:

1. Log into the Agile Web Client.
2. Choose Admin > User Settings > Users.
3. Choose Tools > My Settings.
4. Click User Profile.
5. Click the Preferences tab.
6. Click Edit.
7. Click the Preferred Client list and select Portal Client.
8. Click the Preferred Portal URL list and select a portal.
9. Click Save.

Note	If the Preferred Portal URL list reads "No Privilege," make sure the Modify Users privilege for Agile PLM applies to the "users.Preferences.Preferred Portal URL" attribute.
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Configuring Agile Portlets

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About Portlet Configuration

This section describes how to configure Agile portlets. For most portlets, configuration is simple and requires selecting just a few options. The Business Object and User Profile portlets, however, are more complicated and have many more options for content and layout. You can configure those portlets by editing the XML configuration or using the Portlet Confurator.


Once an Agile portlet is placed on a page, it can be used by people connecting to the portal. However, the following Agile portlets must be configured before they can be used:

- Advanced Search
- Business Object
- Quick Links
- Saved Search
- Search Folder Browser
- User Profile

To configure a portlet from the page layout:



1. Select Administration > Portal User Interface > Manage Pages.
2. Select a portal page that uses Agile portlets.
3. Click the  Edit Page Layout icon.
4. Select an Agile portlet, such as one based on the Business Object portlet, and click the  Edit Portlet icon.

To configure a portlet from a portal page:

1. Select a portal page.
2. Click the Configure icon  (a wrench) for a portlet.

Portlet Modes




Each portlet has up to four possible display modes:

- View — Shows the portlet's normal user interface.
- Help — Shows a help window with information about the portlet. Although Agile Portlet Services does not include online help, you can create your own custom online help for each Agile portlet.
- Edit — Shows a page that lets users personalize a portlet. Portlets that support Edit mode have a  pencil icon.
- Configure — Shows a page that allows portal administrators to configure a portlet. Portlets that support Configure mode have a  wrench icon.

Configuring the Advanced Search Portlet

The Advanced Search portlet has a graphical user interface for specifying its configuration, but it is more complex than other Agile portlets, partly because it also requires that you are familiar with the Agile API query language. This section steps you through the somewhat tricky process of configuring an advanced search.

To configure the Advanced Search portlet:

1. Select a portal page with the Advanced Search portlet, and click the  wrench icon to enter Configure mode.
2. In the Select Class To Search drop-down list, select the class or subclass to search for.
If you select a base class (such as Items), a different set of search and display attributes can be configured for each class. If you select a class (such as Parts), a different set of search and display attributes can be configured for each subclass.
3. In the Define Search For drop-down list, select a class.
4. Select one or more attributes to include in the search parameters, and then click  to move them into the Selected Attributes box.
5. Select attributes to display in the search results, and then click  to move them into the Selected Attributes box.
6. To exclude inactive list values from searches, make sure the Exclude inactive values for List Attributes box is checked.
7. Click Update to update the search.
8. Click Save.
9. Click Return to return to the portlet.

Configuring a Quick Links Portlet

The Quick Links portlet lets you set up a portlet with links to portal pages and external Web sites, including other Web applications. The portlet uses the XML Configuration window to configure the links.

The XML configuration for a Quick Links portlet has the following tags:

Tags	Description	Example
Product Collaboration	Portlet header	Product CollaborationExternal Quick Links</title>
<links>	Container for links.	<links> <!--links go here--> </links>
<link name= <i>name</i> openInNewWindow= <i>boolean</i> >	Link tag. If you are referencing a portal URL, the openInNewWindow parameter should be set to false (the default). If you are referencing an external URL, the openInNewWindow parameter should be set to true .	<link name="ViewMyPrograms" openInNewWindow="false"> </link> <link name="Yahoo" openInNewWindow="true"></link>
<label>	Label or description of the link.	<label>Yahoo</label>
<href>	A Web location (URL)	<href>http://www.agile.com</href>

Here is an example of a Quick Links XML configuration file with links to several portal URLs:

```
<?xml version="1.0" encoding="UTF-8"?>
  <links>
    Product CollaborationProgram Quick Links...</title>
    <link name="ViewMyPrograms">
      <label>View My Programs</label>
      <href>/wps/myportal/viewmyprograms</href>
    </link>
    <link name="UpdateTasks">
      <label>View My Tasks</label>
      <href>/wps/myportal/updatemytasks</href>
    </link>
    <link name="UpdateActionItems">
      <label>View My Action Items</label>
      <href>/wps/myportal/myactionitems</href>
    </link>
    <link name="CreateProgram">
      <label>View New Program Creation</label>
      <href>/wps/myportal/createprogram</href>
    </link>
```

</links>

Note	In the previous example, “viewmyprograms,” “updatemytasks,” “myactionitems,” and “createprogram” are names that have been mapped internally to portal URLs. For information on how to use URL mapping on your portal, see “Setting Up Quick Links to Portal Pages” (on page 32) below.
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Here is another example of a Quick Links XML configuration file, this time with links to several external URLs:

```
<?xml version="1.0" encoding="UTF-8"?>
<links>
  Product Collaboration Handy Web Links...</title>
  <link name="Agile" openInNewWindow="true">
    <label>Agile Software</label>
    <href>http://www.agile.com</href>
  </link>
  <link name="Yahoo" openInNewWindow="true">
    <label>Yahoo</label>
    <href>http://www.yahoo.com</href>
  </link>
  <link name="Google" openInNewWindow="true">
    <label>Google</label>
    <href>http://www.google.com</href>
  </link>
  <link name="CNN" openInNewWindow="true">
    <label>CNN</label>
    <href>http://www.cnn.com</href>
  </link>
</links>
```

Setting Up Quick Links to Portal Pages

To set up Quick Links to portal pages, you must first create a URL mapping. URL mapping is a feature of WebSphere Portal Server that allows portal administrators to define simple, easy-to-remember URLs and map them to portal pages. The URL mapping creates a relationship on the portal between a name and a portal page. To create a URL mapping, select Administration > Portal Settings > URL Mapping.


Important The URL mapping must be all lower case.

For more information on how to use URL mapping, see the [IBM WebSphere Portal InfoCenter](#) (see "IBM WebSphere Portal Server" on page 3).

Configuring the Report Folder Browser Portlet

The Report Folder Browser portlet lets you generate reports from one of the Report folders. You can configure the portlet to select a particular folder. Once you select a folder, the portlet allows users to navigate to any reports in that folder and any subfolders.

To configure a Report Folder Browser portlet from a portal page:

1. Select a portal page that has the Report Folder Browser portlet.
2. Click the Configure icon  (a wrench) for the Report Folder Browser portlet.

3. Select a report folder from the Report Tree.

Note This folder becomes the topmost folder that users can navigate to when they personalize the portlet.

4. To enable customer external reports to be launched from the portlet, make sure the Enable Customer External Reports box is checked.
5. Click Save to save the configuration.
6. Click Return to return to the portal page.

Using the Portlet Configurator

For Business Object or User Profile portlets, when you configure the portlet an XML Configuration window appears. If you're familiar with XML and XSL (extensible stylesheet language for XML), you may find it easy to edit the XML directly. However, if the XML seems too complicated, use the Portlet Configurator to modify the configuration.

Business Object Portlet (Agile) - 1000-02

Edit the XML Configuration:

[Copy](#) [Paste](#) [Upload File](#) [Launch Configurator](#)

```
<?xml version="1.0" encoding="UTF-8"?>
<uiconfigs xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <uiconfig id="0" name="Items">
    <agile-entity baseclassId="901">
      <subclass id="9141" />
      <subclass id="10141" />
    </agile-entity>
    <attribute-groups>
      <attribute-group collapseGroupByDefault="false" column-count="1"
        displayNameAsHeading="true" id="0" name="Title Block" ref-id="0">
        <attribute-unit classId="901" id="1001" name="Number" />
        <attribute-unit classId="901" id="1002" name="Description" />
        <attribute-unit classId="901" id="1081" name="Item Type" />
        <attribute-unit classId="901" id="1014" name="Rev" />
        <attribute-unit classId="901" id="2000004416" name="Part
        Family" />
        <attribute-unit classId="901" id="1084" name="Lifecycle Phase" />
        <attribute-unit classId="901" id="1004" name="Product Line(s)" />
      </attribute-group>
    </attribute-groups>
    <tables>
      <table collapseByDefault="false" displayNameAsHeading="true"
        id="807" name="Attachments" ref-id="0">
        <attribute-unit classId="9141" id="1046" name="Filename" />
        <attribute-unit classId="9141" id="1045" name="File
        Description" />
        <attribute-unit classId="9141" id="1142" name="Checkout User" />
        <attribute-unit classId="9141" id="1144" name="Checkout
        Location" />
        <attribute-unit classId="9141" id="1143" name="Checkout Date" />
      </table>
    </tables>
  </uiconfig>
</uiconfigs>
```

[Save](#) [Return](#)

☐ Use default configuration

Note	Configuration of the Business Object portlet should be done only by the portal administrator. Consequently, the portal administrator should set resource permissions so that ordinary users do not have permission to personalize the Business Object portlet. For more information about resource permissions, see “Setting Resource Permissions” (on page 27).
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The Portlet Configurator is a Java application that lets you configure Business Object and User Profile portlets using a graphical user interface. Other portlets have simple configuration options, so the Portlet Configurator isn't needed for them.

The Portlet Configurator connects to the Agile PLM server to read business object classes, attributes, tables and actions. After you specify general portlet properties, the content to use (attribute groups, tables, and actions), and the layout, you can copy the XML configuration data from the Portlet Configurator to the portlet's XML Configuration window.

Roles and Privileges Needed to Use Agile Portlet Configurator



The Agile Portlet Configurator requires read-access to metadata tables for all Agile PLM classes and subclasses to configure Business Object portlets. Therefore, you should have Administrator privileges to use it. If you do not have Administrator privileges, see your Agile PLM administrator.

Launching the Agile Portlet Configurator

When you connect to the Agile Portlet Configurator Web site, it uses Java WebStart technology to deploy the application to your computer. After that, you can launch the Portlet Configurator from your computer's desktop.





You can also launch the Portlet Configurator from the XML Configurator window of a Business Object or User Profile portlet.

To launch the Portlet Configurator from a portlet:

1. Select Administration > Portal User Interface > Manage Pages.
2. Select a portal page that uses Agile portlets.
3. Click the  Edit Page Layout icon.
4. Select an Agile portlet, such as one based on the Business Object portlet, and click the  Edit Portlet icon.
5. Instead of editing the XML configuration file for the portlet, click the Launch Configurator link. The Portlet Configurator login dialog box appears. After you log in, the Portlet Configurator appears in its own window.

Portlet Configurator Toolbar

The Portlet Configurator has the following toolbar buttons:

Button	Command Equivalent	Description
	File > New	Clears any current configuration to create a new configuration. If the previous configuration was not saved, you will be prompted whether to save it.
	File > Open	Opens an existing XML configuration file.
	File > Save	Saves the current configuration to an XML file.
	Edit > Copy XML	Copies the XML from the current configuration to the user's Clipboard.
	Edit > Paste XML	Pastes XML from the Clipboard to the current configuration. If there is a current configuration, you will be prompted whether to overwrite it.

Portlet Configurator Tabs

The Portlet Configurator has three tabs:

- Classes – Lets you select the classes and subclasses for the portlet, as well as specify the portlet title
- Configure – Lets you define the content and layout of the Business Object portlet.
- XML – Lets you view or edit the XML for the portlet configuration.


Portlet Configurator Navigation

The Configure tab of the Portlet Configurator has a navigation pane on the left side of the window that lets you quickly switch between the different panes. To switch to a different pane, just click its name in the navigation pane.



Using Portlet Configurator to Modify a Configuration


If a Business Object portlet has already been configured, you may want to modify the existing configuration rather than starting over with a new configuration. Use the Copy and Paste buttons to edit the existing configuration in the Portlet Configurator.

To modify an existing portlet configuration:

1. Select a portal page.
2. Click the Configure icon  (a wrench) for a Business Object or a User Profile portlet that has already been configured. The XML Configuration window appears.

Note If the portlet has not been configured yet, the XML Configuration window is empty. If the portlet has been configured, click Copy to copy the configuration to the clipboard.
3. Click Launch Configurator to start the Portlet Configurator.
4. In the Login dialog box, enter your username, password, and Agile PLM server URL. Click OK.

5. Click  Paste.
6. Click the Configure tab.
7. Specify the Content and Layout of the portlet.
8. Click  Copy.

Note Optionally, you can click  Save to save the portlet configuration to an XML file so that you can open it later.

9. Switch to the portlet's XML Configuration window.
10. Click Paste.
11. Click Save.
12. Click Return to return to the portal page.

Using the Classes Tab

For each Business Object portlet, you must specify the classes and subclasses supported by the portlet. You can also specify a title for the portlet. To set portlet classes and its title, click the Classes tab (by default, the first tab selected). The following options appear:

- **Portlet Title** — The title that appears within the skin of the portlet window. It should identify the type of business object that appears within the portlet.
- **Object Class** — The Agile PLM class used by the portlet. After you select a class, click **Add** to add it to the Defined Class Views list.

The Business Object portlet supports the following Agile PLM classes:

- Changes
- File Folders
- Items
- Manufacturer Parts
- Manufacturers
- Programs
- Reports
- User Groups

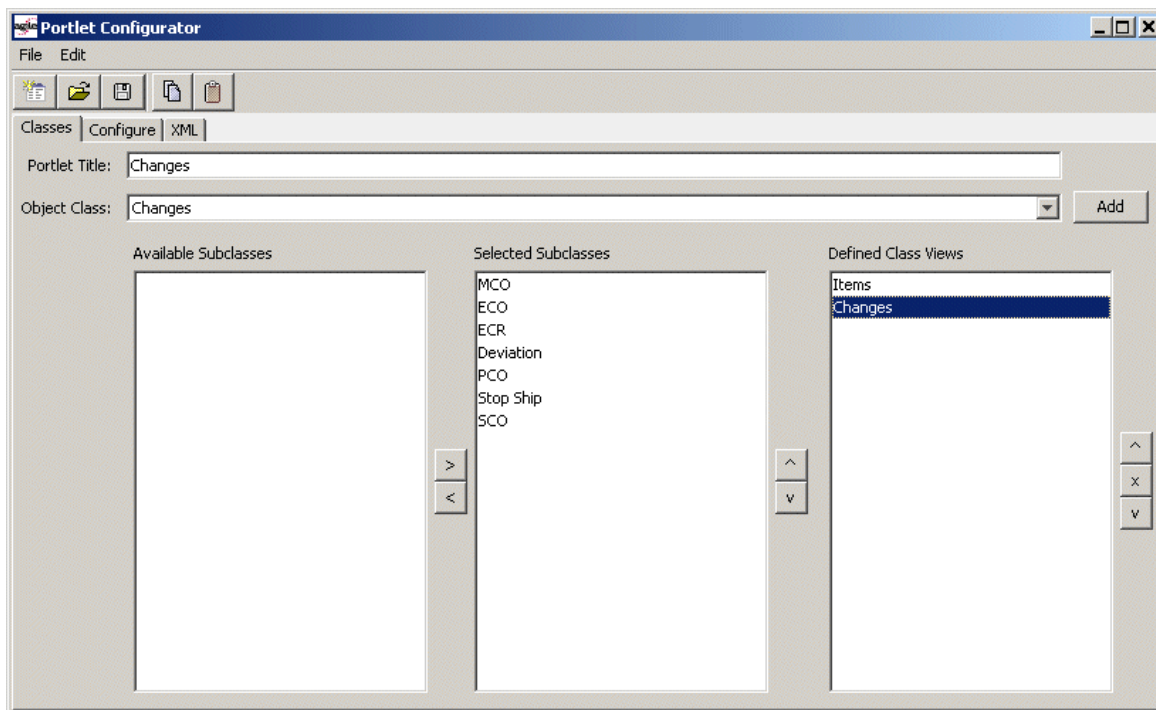
Additionally, the Portlet Configurator allows you to configure the Users class to support the User Profile portlet.

Note The actual base classes supported by your Agile PLM system depend on the Agile PLM solutions your company has purchased. However, only the above classes have been certified to be used with Agile portlets.

- **Available Subclasses** – Based on the selected object class, this list shows the available subclasses that can be selected.

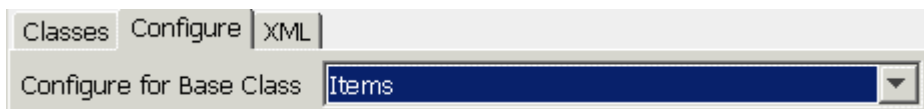
- **Selected Subclasses** – Subclasses selected for this portlet. By default, all subclasses are selected. However, you can disable a subclass for the portlet by deselecting it.
- **Defined Class Views** – Lists the object classes that have been added to the portlet configuration.

The following figure shows a portlet that has been configured to support all the subclasses of the Changes class.



Using the Configure Tab

The Configure tab is where you specify the content and layout of the portlet for a particular base class. Before you can specify the content and layout, you must select a class in the Configure for Base Class list.



There are three types of content you can specify for the portlet:

- **Attribute Groups** — Sets how Page One, Page Two, and Page Three attributes are grouped within the portlet.
- **Tables** — Sets which tables are used in the portlet, and the columns that appear in each table.
- **Action Groups** — Sets the action buttons that appear in the portlet.

Attribute Groups

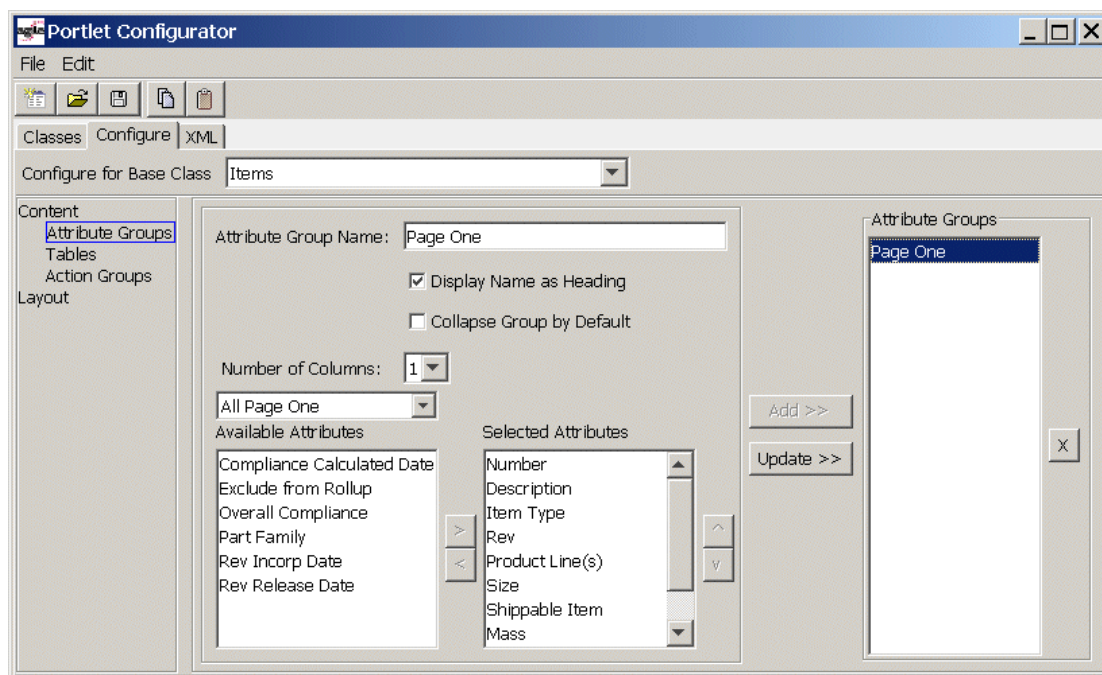
Business object classes and subclasses can have many attributes visible on Page One, Page Two,

and Page Three. Therefore, to provide a more usable portlet interface you should assign the attributes to meaningful groups. The same attribute can appear in multiple groups, if you prefer. To set attribute groups, click Attribute Groups in the navigation pane of the Portlet Configurator. The following options appear:

- Attribute Group Name – Name of the group of attributes.
- Display Name as Heading – Check this box to display the attribute group name as a heading for that area of the portlet.
- Collapse Group by Default – Check this box to collapse the attribute group and show only its name. By default, the group is fully expanded.
- Number of Columns – Specifies the number of columns used to display the attributes. Select one or two.
- Filter – Displays a subset of attributes. Available filters are:
 - All Page One
 - All Page Two
 - All Page Three
 - <Subclass> (includes all Page One, Page Two, and Page Three attributes for a particular subclass)
- Available Attributes – Displays the list of available attributes based on the currently selected filter.

Note	Although the User Group > Assignment > Date Group Table attribute is listed in the Available Attributes list, it's not supported by Agile portlets.
------	-----------------------------------------------------------------------------------------------------------------------------------------------------
- Selected Attributes – Select attribute to add to the attribute group.
- Add button – Adds the new attribute group.
- Update button – Updates the selected attribute group with the current settings.
- Delete (X) button) – Deletes the selected attribute group.



The following figure shows an attribute group that has been defined for Page One attributes.



Tables

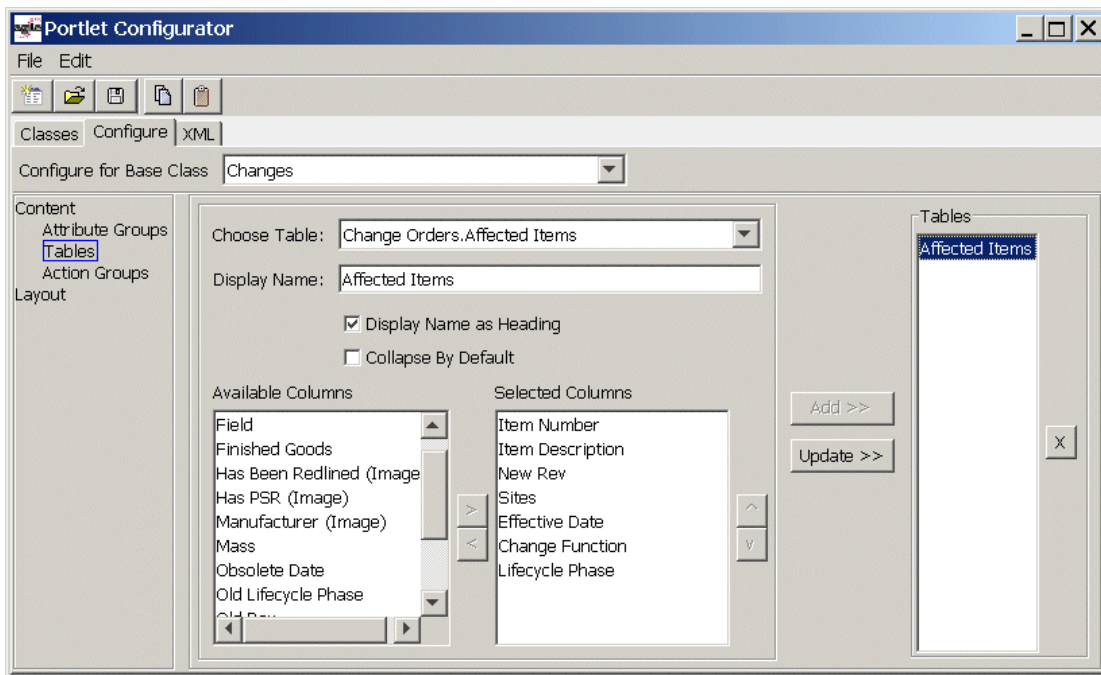
Based on a portlet's object class, there are several tables you can choose to display in the portlet. You can specify which tables should appear in the portlet and the columns or fields that appear in each table. To configure the content of tables, click Tables in the navigation pane of the Portlet Configurator. The following options appear:

- Choose Table – Select a table from the list.
- Display Name – Name of the table.
- Display Name as Heading – Check this box to display the table name as a heading for that area of the portlet.
- Collapse by Default – Check this box to collapse the table and show only its name. By default, the table is fully expanded.
- Available Columns – Displays the list of available columns based for the selected table.
- Selected Columns – Selects columns to add to the table configuration. Columns appear in the portlet in the order they are listed.

Note To change the order of columns, select a column and click  or  to move it up or down.

- Add button – Adds the new table configuration.
- Update button – Updates the selected table configuration with the current settings.
- Delete (X) button – Deletes the selected table configuration.

The following figure shows how the Change Orders.Affected Items table has been configured.



Action Groups

When you configure a Business Object portlet, you can enable an Actions toolbar with buttons and menu commands for object-level actions. These actions apply to the entire object. You can select which actions are available in the portlet and organize them into functional groups.

The actions that you can select for the portlet depend on the object class. They can include:

- Common actions (Bookmark, Delete, New, Print, SaveAs, Send, Subscribe, Edit, CopyToClipboard)
- Workflow actions (Approve, Audit Release, Audit Status, Comment, Change Status, and Reject)
- File Folder actions (Check In, Check Out, Cancel CheckOut, and Download)
- Class-specific actions (such as Incorporate and Unincorporate for Items)
- Process extensions



Many of these actions can be grouped together. Two of them, Change Status and New, can only exist in their own action groups.

To define action groups, click Action Groups in the navigation pane of the Portlet Configurator. The following options appear:

- Action Group – Enter the name of the action group.
- Number of Actions to Display as Buttons – Specifies how many actions to display as buttons. If you select 0, all actions will appear in a menu with the same name as the action group. If you select a number greater than 0 but less than the number of actions in the group, the additional actions

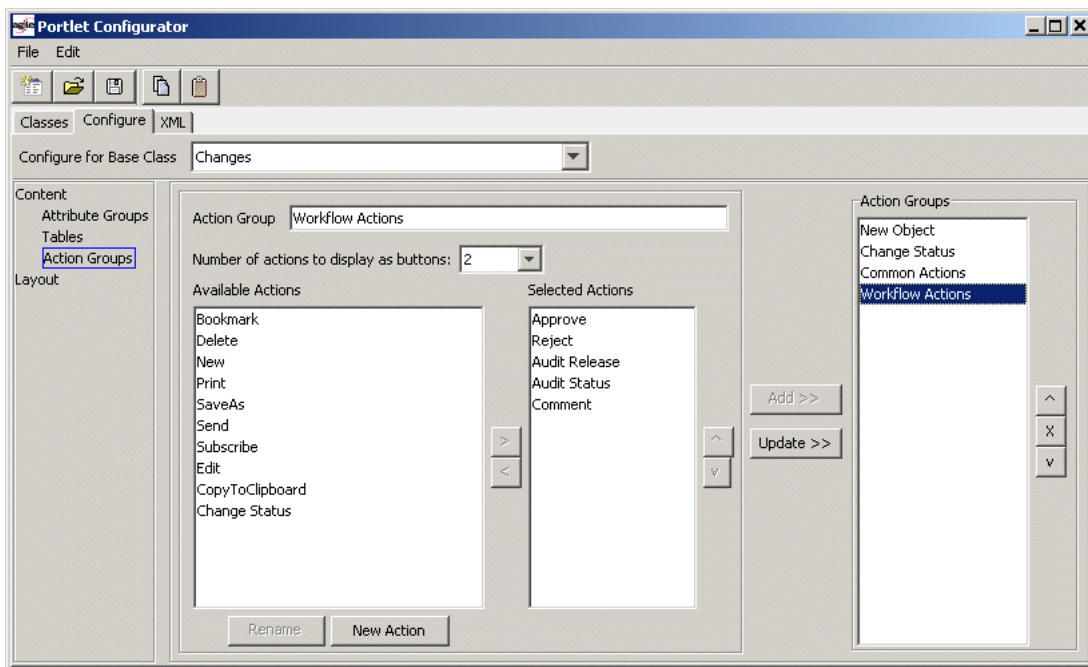
will be listed in a menu with the name “More.”

- Available Actions – Displays the list of available actions for the object class.
- Selected Actions – Select actions to add to the group. Actions appear in the portlet in the order they are listed.

Note To change the order of actions, select a column and click  or  to move it up or down.

- Rename – Renames the selected action. If you change the name of an action, the original Agile name appears to the right of it in parentheses.
- New Action – Adds a new process extension action to the Available Actions list. For more information, see [“Using Process Extensions from within Portlets”](#) (on page 47).
- Add button – Adds the new actions group.
- Update button – Updates the selected action group with the current settings.
- Delete (X) button) – Deletes the selected action group.

The following figure shows an actions group that has been defined for Workflow Actions.



The following figure shows how the Actions toolbar looks in the portlet. Notice that New Object, Change Status, and Common Actions display as drop-down menus, and Workflow Actions only shows two buttons because the Number Of Actions to Deploy As Buttons option has been set to 2. The remaining actions in the Workflow Actions group, Audit Release, Audit Status, and Comment, appear on the More drop-down menu.



Adding the Edit Action to an Actions Group

The Edit action is important because it allows users to edit an object that appears in the Business Object portlet. If you do not add the Edit action to any Actions Groups, the Business Object portlet will be read-only for all users.

Even if the Edit action has been added to Business Object portlet, it may be read-only for some users. Agile PLM privileges determine whether a user has rights to modify an object. If you do not have the Modify privilege for a particular object, the Edit action is disabled.

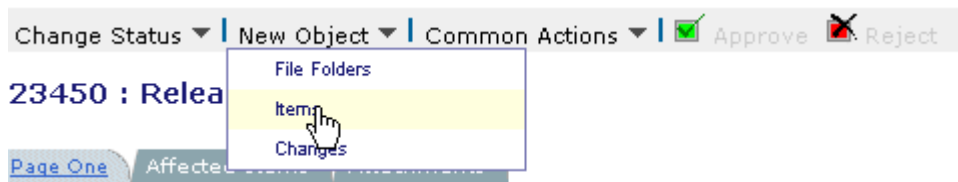
Adding the Change Status Action to an Actions Group

The Change Status action for routable objects is a special action that behaves differently from other actions. If you add the Change Status action to an action group, it dynamically generates the list of status types from the object class and adds them to the Actions toolbar. However, the workflow status actions replace all other actions you may have selected for that actions group.

If you choose to use the Change Status action, make sure it is the only action in the group. You can call the group Change Status.

Adding the New Action to an Actions Group

The New action allows you to create any of the objects that the portlet supports. The New action appears as a drop-down menu in the Business Object portlet.



The New action cannot be grouped with other actions. It must be the single action added to a group. If you add the New action to a group with other actions, it won't appear in the portlet.

Note	The New action is not supported by User Profile portlet and Report objects. Consequently, you cannot use Agile portlets to create users or reports.
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When you create a new object within the Business Object portlet, the portlet usually displays a New Object dialog box with the fields needed to define the new object (such as the subclass and object number).

Business Object Portlet (Agile)

SubClass: ECO

Number/Name: C00001 123

Create Cancel

If the portlet supports only one subclass and one autonumber sequence and an autonumber is required, the New Object dialog box does not appear and the object is created using the next autonumber.

Portlet Layout

After specifying the properties and content of a Business Object portlet, you can configure the portlet layout. To define the layout, click Layout in the navigation pane of the Portlet Configurator. The Layout window allows you to:

- Construct a portlet header.
- Select the layout template to be used.
- Arrange the attribute groups and tables within the layout.

The following options appear in the Layout window:

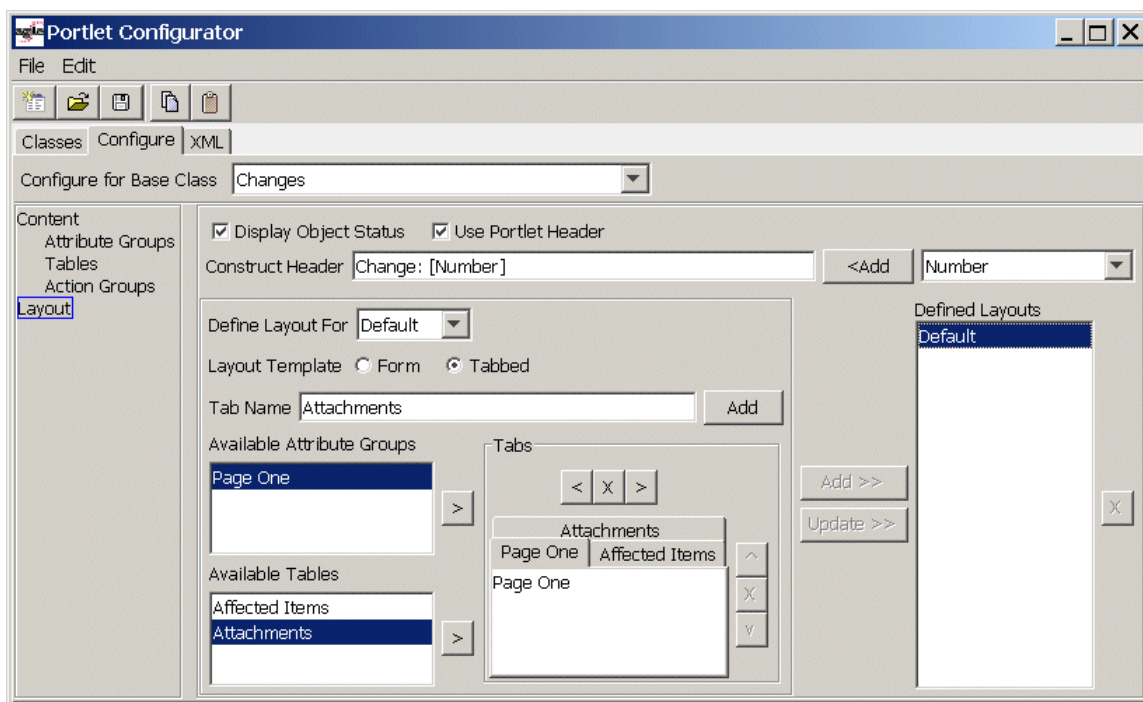
- Display Object Status – Check this box to display the object's status at the top right of the portlet. If the Actions toolbar is shown, the status appears below it.
- Use Portlet Header – Check this box to display a custom header at the top left of the portlet. If the Actions toolbar is shown, the portlet header appears below it.
- Construct Header – Use the list of attributes to the right to add Page One attributes to the header. In that way, you can display the object's Number, Description, Status, or other Page One attributes in the header. You can also type attributes directly in the field, such as [Number]: [Description of Change].
- < Add – Adds the selected Page One attribute to the portlet header.
- Define Layout For – Select the object class for which you wish to define a layout. The Default layout applies to the object class and all its subclasses. You can also define layouts that are subclass-specific. For example, you can define a Default layout for the Changes object class, but define a separate layout for the ECO subclass.
- Layout Template – Select either the Form or Tabbed layout template.
- Available Attribute Groups – Select an attribute group and click > to add it to a form or tab.
- Available Tables – Select a table and click > to add it to a form or tab.
- Form – If you chose the Form layout template, use the form to arrange attribute groups and tables.
- Tab Name – Type the name of a tab name to use, and click Add to add it to the Tabs box.
- Tabs – If you chose the Tabbed layout template, use the different tabs to arrange attribute

groups and tables.

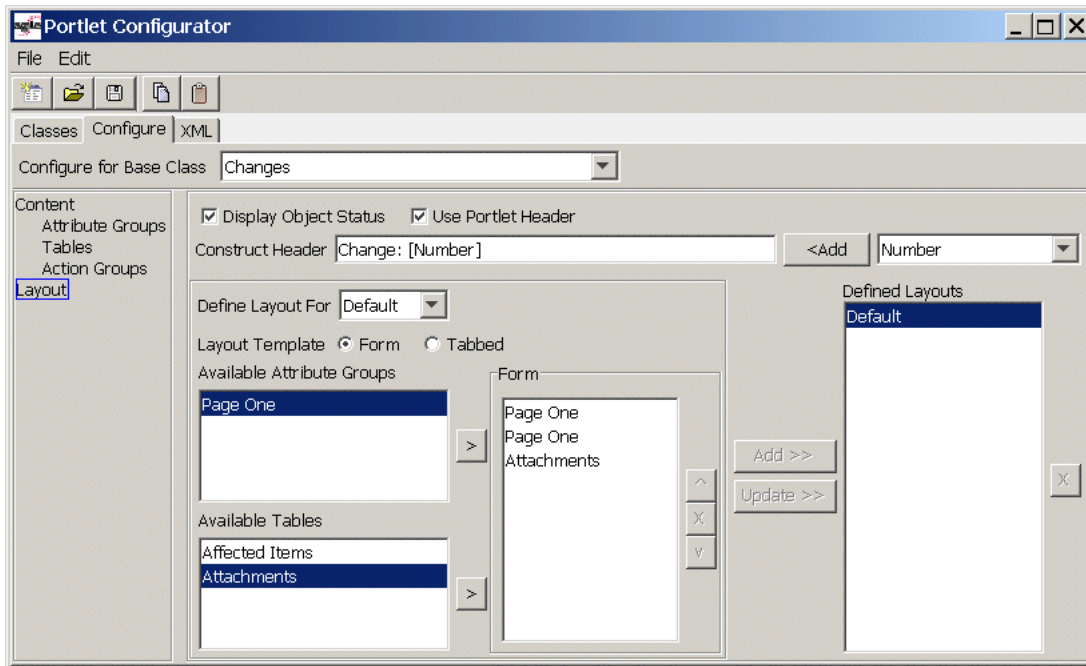
- Add >> – Adds the configuration to the layout.
- Update >> – Updates the configuration of the layout.
- Defined Layouts – Displays the layouts that have been defined for each object class. Select one to edit it.

Note Attribute groups always display first, followed by tables, in both the Form or Tabbed layout. This is true even if you move a table above an attribute group in the list.

The following figure shows the configuration for a tabbed layout.



The following figure shows the configuration for a form layout.



Messaging Between Portlets

The `portlet.messaging` parameter of a portlet allows you to define how a portlet updates itself, the page, or other portal pages. Objects that are listed in Agile portlets—such as in a Search Results portlet—appear as standard links. When you click an object link, the portlet sends a message to its intended target. The target can be the same portlet, the page on which the portlet appears, or another page specified by its URL mapping. The context of the object that you've clicked is sent to the target, which causes it to be updated.

When you modify a portlet's `portlet.messaging` parameter, you can specify the following values:

- an empty string ("") – uses the default portlet messaging.
- `page` – updates the current page.
- `none` – does not send a message to other portlets. In other words, object links in the portlet appear as normal text.
- an internal portal URL – updates another page specified by URL mapping. The URL must be all lower case.

Important Changes to the `portlet.messaging` parameter do not take effect until you log out of the portal and log in again (to clear the cache).

If the `portlet.messaging` parameter is missing from a portlet or the parameter value is a null string, the portlet uses the default portlet messaging behavior. For objects supported by the Business Object portlet, the portlet overrides the `portlet.messaging` parameter and always messages to itself. For objects that are not supported by the Business Object portlet, the default behavior is for the portlet to send a message to the page.

If you want the Business Object portlet to message to other portlets on the same page when you click a link for a particular class of objects, make sure

- the portlet.messaging parameter for the Business Object portlet is set to page
- the Business Object portlet is NOT configured to support the class. If the Business Object portlet supports a class, it will always message to itself when you click a link for an object of that class.

For more information on how to set portlet parameters, see “[Setting Agile Portlet Parameters](#) (on page 19)”.

Clearing Portlets If Messaging Is Not Supported

The clearPortletContentsIfMessageNotSupported parameter can be used to clear the contents of a portlet if a message received from another portlet (such as a Search portlet) is not supported. Use the clearPortletContentsIfMessageNotSupported parameter in conjunction with the portlet.messaging parameter to determine how portlets get updated when you click a link in them.

For example, let us create a portal page with the following portlets:

- Advanced Search
- Search Results
- Business Object Portlet - Changes (a copy of the Business Object portlet that supports only Changes)
- Business Object Portlet - Items (a copy of the Business Object portlet that supports only Items)

Specify the following portlet parameters:

Portlet	Parameter	Value
Search Results	portlet.messaging	page
Business Object Portlet - Changes	portlet.messaging	page
	clearPortletContentsIfMessageNotSupported	true
Business Object Portlet - Items	portlet.messaging	page
	clearPortletContentsIfMessageNotSupported	true

Exporting and Importing Portal Configurations using the XML Configuration Interface

WebSphere Portal Server provides an XML configuration interface that allows you to configure the portal remotely. The XML configuration interface is a command line tool that connects to the server using an HTTP connection. You can use the tool to export the portal settings from a test server and import them to a production server. The command line client is located in the <wps_root>\bin folder. To invoke the client, use the xmlaccess.bat script.

The syntax for the `xmlaccess` command is as follows:

```
xmlaccess -in XML_file -user user -pwd password -url PortalConfigURL -out filename.xml
```

Note You can specify the command options in any sequence.

The `xmlaccess` command can be used to:

- Transfer a complete portal configuration
- Transfer a portal page
- Transfer a portal page and its portlets
- Create and modify resources
- Perform administration tasks

For more information about the WebSphere Portal Server XML configuration interface, see the IBM WebSphere InfoCenter.

To export the WebSphere Portal Server configuration:

1. In a command prompt window, go to the location of the XML Configuration Interface:

```
cd <drive>:<wps_root>\bin
```
2. Run the following `xmlaccess` command to export the entire portal configuration to a file called `Complete.xml`:

```
xmlaccess.bat -in ../doc/xml-samples/Export.xml -user wpsadmin -pwd wpsadmin  
-url http://hostname:9081/wps/config -out Complete.xml
```

You can use the resulting output file as the input parameter for the `xmlaccess` command to import the portal configuration on another portal server.

To import the WebSphere Portal Server configuration on another server:

1. Copy the latest `AgilePortletPack2.war` file to the `<wps_root>\installableApps` folder of the target server.
2. In a command prompt window, go to the location of the XML Configuration Interface:

```
cd <drive>:<wps_root>\bin
```
3. Run the following `xmlaccess` command to import the portal configuration from the `Complete.xml` file that you previously exported:

```
xmlaccess.bat -in Complete.xml -user wpsadmin -pwd wpsadmin  
-url http://hostname:9081/wps/config -out Out.xml
```

Note If the target server has a different portal administrator than the one used to export the `Complete.xml` file, edit the file and change the user and pwd parameters.

Using Process Extensions from within Portlets

Agile PLM 9.2.2.3 includes a special web service that lets you invoke Agile PLM process extensions from within a portlet. The web service is contained in a file named `PXWebService.jar`, which is installed in the following folder on the Agile PLM server:

```
agile_home\integration\sdk\extensions
```

For more information about how to develop and deploy process extensions, see the *Agile SDK Developer Guide*.

To configure your portal to use process extensions:

1. Before using a process extension from within a portlet, check to make sure PXWebService is working. Open a browser and type the following URL:

`http://<server>:<port>/<virtualPath>/integration/ws/InvokePX?wsdl`

For example, if you installed Agile PLM on a server named plmserver, you're hosting Agile PLM on Oracle Application Server using port 7777, and you're using a virtual path named "Agile," type the following URL:

<http://plmserver:7777/Agile/integration/ws/InvokePX?wsdl>

You should see a WSDL response in the browser. If you don't, the web service may not have been deployed properly. Make sure you installed the latest Agile PLM service packs. For more information about how to check whether Agile PLM web services are working, see the Agile PLM installation guide.

2. Make sure that the webClientVirtualPath portlet application parameter has been configured correctly. This should be the same as the URL used to access the Agile Web Client, but without the trailing "/PLMServlet". For more information, see "[Setting Agile Portlet Services Application Parameters](#)" (see "Setting Agile Portlet Parameters" on page 19).
3. Portlets use Basic Authentication to invoke the PXWebService on the Agile PLM server. Make sure the Web server used by your WebSphere Portal has Basic Authentication enabled. In Internet Information Server, you can enable Basic Authentication from the Directory Security tab.


Configuring a New Process Extension Action for a Portlet

When you use the Portlet Configurator to configure a portlet, you can select the actions that appear at the top of the portlet. In addition to standard actions, like Bookmark, Delete, Print, and SaveAs, you can add custom actions that invoke process extensions.

To configure a new process extension action:

1. Configure a portlet based on the Business Object portlet.
2. In the XML Configurator window, click the Copy button to copy the configuration to the Clipboard.
3. Click the Launch Configurator link to open the Portlet Configurator window.
4. In the Portlet Configurator Login dialog box, enter your username, password, and the Agile PLM server URL. Click OK to log in.

The Portlet Configurator window appears.

5. Click  Paste.
6. Click the Configure tab.
7. In the navigation pane, click Action Groups.
8. Click the New Action button.

9. In the Action Name field, type a name for the custom action.
10. In the Process Extension field, select a valid process extension.

Note	The Portlet Configurator displays all process extensions, not just the ones that have been assigned to a particular class. Only process extensions that have been assigned to the class are valid.
------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

11. If you selected a URL-based process extension (one that links to another Web page or a Web-based application), check the Refresh Parent box if you want the parent portlet to be refreshed after you close the process extension page. If the process extension updates the object that launched the page, you can use this option to refresh the portlet.
12. You can now include the custom action in any Action Group.

Note	In the XML, the process extension action looks like any other action but has the ref-id "%common.invokePX". Do not modify the ID of this process extension action.
------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------

Testing a Sample Process Extension within a Portlet

The Agile SDK includes a sample process extension, SamplePXes.jar. To obtain the source code for SamplePXes.jar and other Agile SDK sample programs, download the Developer Documentation Installer from the Agile Documentation Web Site (<http://docs.agile.com>). Follow the instructions in the *Agile SDK Developer Guide* to build and deploy SamplePXes.jar in the agile_home\integration\sdk\extensions folder. You also need to configure the "Set Description" process extension using the Agile Java Client.



To test the Set Description process extension from within a portlet:

1. Build and deploy the sample process extensions included with the Agile SDK.
 - a. Download the Java SDK from <http://java.sun.com/> and install it on your development machine.
 - b. Set the system variable JAVA_HOME to point to the home directory of your Java SDK installation.
 - c. Download the Ant build tool from <http://ant.apache.org/> and install it on your development machine.
 - d. Set the system variable ANT_HOME to point to the home directory of your Ant installation.
 - e. Open a command prompt window and go to the Process Extensions samples folder located in agile_home\integration\sdk\samples\px.
 - f. Type the following command to build the samples:

```
%ANT_HOME%\bin\ant all
```

Ant uses the build.xml file to build the SamplePXes.jar file and then deploy it to the agile_home\integration\sdk\extensions folder, where all process extensions and web service extensions are automatically deployed for clients that invoke them.

2. Enable the Set Description process extension.
 - a. Log into Java Client as an administrator.
 - b. Choose Settings > Data Settings > Process Extensions.
 - c. Click the New toolbar button. The Add Process Extension dialog box appears.

- d. For Type, select Internal Custom Action.
 - e. For Internal Custom Action, select samplex.SetDescription.
 - f. Enter values in the following fields:
 - Name – Enter “Set Description.”
 - Description – Enter “Sets the description of the object.”
 - Initiate From – Select “Actions menu.”
 - Roles – Select one or more roles to use for the process extension. To use the roles and privileges of the current user, leave the field blank.
 - Timeout – Use the default value (60 seconds).
 - Enabled – Select Yes.
3. Click OK.
4. Add the Set Description process extension to the Item class.
 - a. In Java Client, choose Settings > Data Settings > Classes.
 - b. Open the Items class.
 - c. Click the Process Extensions tab.
 - d. Click the Assign toolbar button.
 - e. Select the “Set Description” process extension, and then click > to move it into the selected list.
 - f. Click OK.
5. In the Portlet Configurator, add the Set Description process extension as a custom action and assign it to the Item class.
 - a. Edit a portal page that has an Item Portlet, that is, a Business Object portlet configured for the Items class.
 - b. In the XML Configurator window, click the Copy button to copy the configuration to the Clipboard.
 - c. Click the Launch Configurator link to open the Portlet Configurator window.
 - d. In the Portlet Configurator Login dialog box, enter your username, password, and the Agile PLM server URL. Click OK to log in. The Portlet Configurator window appears.
 - e. Click  Paste.
 - f. Click the Configure tab.
 - g. In the navigation pane, click Action Groups.
 - h. In the Action Groups field, type “Custom Actions”.
 - i. Click the New Action button.
 - j. For Action Name, type “Set Description.”
 - k. For Process Extension, select “Set Description.”
 - l. Click OK.
6. Select the “Set Description” action, and then click the > button to move it into the Selected Actions list.
 - a. Click the Add button to move “Set Description” into the Custom Actions action group.
 - b. Click  Copy.

- c. Switch to the XML Configuration window, and click Paste.
 - d. Click Save to save the configuration.
 - e. Click Return to return to the portlet page.
7. Invoke the Set Description process extension and verify that the Item Description is now assigned to a random value.
 - a. Open a portal page that has the Item Portlet.
 - b. Search for or select an item to display data in the Item Portlet.
 - c. Choose Custom Actions > Set Description.You should see the new value in the Description field.

Creating Custom Help for Agile Portlets

Because Agile portlets are so flexible and customizable, static online help files are not provided with them. However, you can create your own custom online help files. You can choose one of two online help scenarios for each Agile portlet:

Using Relative References to Help Files

With this scenario, all Agile portlets share the same base URL for help files. To specify the base URL, enter the `help.base.url` application parameter. For each portlet, enter a value for the `help.relativePath` portlet parameter, which specifies the relative path to a help file. The help handler for Agile portlets combines the base URL and the relative URL to form the complete URL to the help file.

For example, if the `help.base.url` value is <http://webserver/portlethelp>, the `help.relativePath` for the Advanced Search portlet could be `AdvancedSearch.html`. The complete URL that is used to access the file is <http://webserver/portlethelp/AdvancedSearch.html>.

Using Absolute References to Help Files

With this scenario, each portlet specifies its own help file. You can use the `help.url` portlet parameter to override the `help.base.url` application parameter and the `help.relative.path` portlet parameter.

For example, if you created help for the Advanced Search portlet and deployed it on a Web server named “portal”, the `help.url` value could be <http://portal/docfiles/AdvancedSearch.html>.

Note	If there is a value in a portlet’s <code>help.url</code> parameter, it overrides the <code>help.relativePath</code> portlet parameter and the <code>help.base.url</code> application parameter.
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Downloading Online Help Files for Agile Portlets

Agile provides HTML help files for Agile portlets. To download portlets help, open a Web browser and go to the Agile Documentation Web site: <http://docs.agile.com>.

To configure Agile portlets to use the downloaded online help files:



1. Download the help archive file for Agile portlets.
2. Extract all files from the help archive file.
3. Create a folder called `AgilePortletHelp` in your Web server's docroot directory.

4. Copy the portlet help files to the AgilePortletHelp folder.
5. Set the help.base.url application parameter for AgilePortlets 2.1 to the URL for the AgilePortletHelp folder (for example, <http://Web Server/AgilePortletHelp>). For complete instructions, see “[Setting Agile Portlet Services Application Parameters](#) (on page 11)”.


Configuring Online Help for Portlets on WebSphere Portal 5.1.0.4

If you want to create custom online help files for Agile portlets on WebSphere Portal 5.1.0.4, follow these instructions.

To configure Agile portlets to use a base help URL on WebSphere Portal 5.1.0.4:

1. Set the help.base.url application parameter for AgilePortlets 2.1. For complete instructions, see “[Setting Agile Portlet Services Application Parameters](#) (on page 11)”.
2. Click Portlet Management > Portlets.
3. Select an Agile portlet, and click the  Configure Portlet icon.
4. For the help.relativePath parameter, click the  Edit Parameter icon.
5. In the Value box, enter a URL that is relative to the help.base.url setting for Agile portlets. For example, the value could be an HTML filename.
6. Click OK.
7. Select other Agile portlets and configure their help.relativePath parameter in the same way.

To configure an Agile portlet to override the base help URL and use its own help URL on WebSphere Portal 5.1.0.4:

1. Log into the WebSphere Portal Server as a portal administrator.
2. Click Administration.
3. Click Portlet Management > Portlets.
4. For the help.url parameter, click the  Edit Parameter icon.
5. In the Value box, enter a help URL.
6. Click OK.

Configuring Online Help for Portlets on WebSphere Portal 6.012

If you want to create custom online help files for Agile portlets on WebSphere Portal 6.01, follow these instructions.

To configure Agile portlets to use a base help URL on WebSphere Portal 6.01:

1. Set the help.base.url application parameter for AgilePortlets 2.1. For complete instructions, see “[Setting Agile Portlet Services Application Parameters](#) (on page 11)”.
2. Click Portlets > Manage Portlets.
3. Select an Agile portlet, and click Modify Parameters.
4. Enter a URL that is relative to the help.base.url setting for Agile portlets. For example, the value could be an HTML filename.

5. Click Save.
6. Select other Agile portlets and configure their help.relativePath parameter in the same way.

To configure an Agile portlet to override the base help URL and use its own help URL on WebSphere Portal 6.01:

1. Log into the WebSphere Portal Server as a portal administrator.
2. Click Administration.
3. Click Portlets > Manage Portlets.
4. Select an Agile portlet, and click Modify Parameters.
5. Enter a value in the help.url parameter.
6. Click Save.

Using Agile Portlets

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Agile Portlet Features

Each Agile portlet is a small Web-based application that connects to the Agile server and displays data in tabular format. For example, Find portlets like the Quick Search portlet display a table of search results after you click the Search button.

If you click an object's number link in an Agile portlet, you load data in other Agile portlets, like a Business Object portlet.

Many of the Agile portlets have common controls that let you refresh data from the server or view an object in the Agile Web Client. Several Agile portlets let you perform relevant actions—such as Bookmark or Subscribe—for each object listed in the portlet.

To refresh the data in an Agile portlet:

Click .

Using Edit Mode to Personalize Agile Portlets


Portal users can personalize Agile portlets to change the display to their own personal preference. When you personalize a portlet, it affects the portlet only for you, not for other users.

The following Agile portlets can be personalized:

- Advanced Search
- Attachment Files
- Business Object
- My Notifications and Requests
- My Things To Do
- Quick Links
- Report Folder Browser
- Saved Search
- Search Folder Browser
- Single Signon
- User Profile

Most portlets have a simple Edit mode user interface to personalize the portlet. The Business Object and User Profile portlets both use the XML Configuration window for Edit mode, but they also allow you to launch the Portlet Configurator to personalize those portlets. The Quick Links portlet uses only the XML Configuration window for personalization. If you are not proficient at editing XML, do not attempt to personalize the Quick Links portlet.

To use Edit mode to personalize an Agile portlet:

1. Select a portal page.
2. Click the  Edit icon (a pencil) for a portlet.
3. Edit the configuration.

For some portlets, you can click Use Defaults to revert to the default configuration specified by the portal administrator.

4. Click Save.
5. Click Return to return to the portlet.

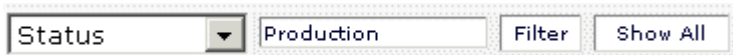
Filtering Data in Portlets

The following Agile portlets provide a filter bar that lets you filter out data from tables:

- My Things To Do
- My Notifications and Requests

- Saved Search
- Search Results

To use the filter bar, select an attribute from the list, type a value, and then click Filter. To show all rows in the table, click Show All.



Advanced Search Portlet

The Advanced Search portlet searches for all objects with fields that match the conditions of the search. The portlet must be configured properly before it can be used on a page. The fields and attributes that you can use in an advanced search depend on the class that the portlet is configured to search. After you specify the search conditions, click Search.

Note Auto Complete will not work if there are more than ONE searchable TEXT attributes configured: This limitation seems to only be an Internet Explorer issue. Auto Complete for the FireFox browser works perfectly.

Using Advanced Search

The Advanced Search portlet can be personalized to search on multiple attributes for a particular class. Each attribute appears in the Advanced Search portlet as a separate search condition. For each search condition, specify a value.

The relational operator used for each search condition depends on the data type of its attribute, as shown in the following table.

Data Type	Relational Operator	Notes
Text	Contains or Like	<p>Specify a text value. When you type a word to search for, it's searched using the Contains relational operator. That means the search finds all objects that contain the word in that field.</p> <p>You can also use wildcard characters (* and ?) in the search value, in which case the Like operator is used. Agile supports two wildcards: the asterisk (*) and the question mark (?). The question mark finds matches with any other single character. For example, ?at finds hat, cat, and fat, but not splat. The asterisk finds matches with more than one character. For example, *at finds cat, splat, and big hat. The asterisk by itself finds all objects of the specified class.</p> <p>Note: If you use wildcards, try to make your search as narrow as possible. Otherwise, the search may not be able to return results because it matches too many rows in the database.</p>


Data Type	Relational Operator	Notes
Date	Greater Than or Equal To, Less Than or Equal To, or Between	Specify starting and ending date values. The relational operator used in the search depends on the range of dates you specify. If you specify only the starting date, the search finds any date values that are <i>greater than or equal to</i> it. If you specify only the ending date, the search finds any date values that are <i>less than or equal to</i> it. If you specify both the starting and ending dates, the search finds any date values that fall within the specified range.
List	Equal To	Select one or more list values. If you select multiple list values, the search constructs multiple search conditions in the background and connects them using the OR logical operator. For example, if you select "Production, Prototype" for the Lifecycle Phase attribute (as shown above), the search returns items whose Lifecycle Phase is equal to "Production" <i>or</i> "Prototype".
Money	Equal To	Specify a numeric value to search, not a currency code. When you run the search, money values are converted to the company's corporate currency to determine if they match the value you specified.
MultiList	Contains	Select one or more list values. The search finds any matches that contain <i>any</i> of the specified list values, not all of them. If you select multiple list values, the search constructs multiple search conditions in the background and connects them using the OR logical operator. For example, if you select "Equipment, PDA" for the Product Line(s) attribute (as shown above), the search returns items whose Product Line(s) field contains "Equipment" <i>or</i> "PDA".
Numeric	Equal To	Specify a numeric value to search.
UOM	Equal To	Specify a numeric value, not a unit of measure. For example, if the value you are searching for is "5.0 Gram", type "5" or "5.0".

The logical operator AND is used between multiple search conditions that you specify. For example, in the Advanced Search screen, the following logic applies:

Search for Items where

```
[Title Block.Number] is Like P0017* AND
  [Title Block.Description] Contains BOARD AND
  ([Title Block.Lifecycle Phase] is Equal To "Production" OR
  [Title Block.Lifecycle Phase] is Equal To "Prototype") AND
  ([Title Block.Product Line(s)] Contains "Capricorn" OR
  [Title Block.Product Line(s)] Contains "Leo") AND
  [Title Block.Rev Incorp Date] is Between 02/01/06 and 05/01/06
```

When you finish specifying values to search for, click Search.

To save your search so you can reuse it later, click  Save Search.

To clear search criteria and start a new search, click Clear.

OR Searches

To do an “or” search, type two words separated by a space. For example, “FUSE TRANSISTOR” will find all objects that contain either “FUSE” or “TRANSISTOR” in that field.

AND Searches

To do an “and” search, type a second word prepended with a plus sign. For example, “INTEL +PENTIUM” will find all objects that contain both “INTEL” and “PENTIUM” in that field.

Note	Do not put a space between the plus sign and the second word. For example, “INTEL + PENTIUM” is not a valid search value.
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AND NOT Searches

To do an “and not” search, type a second word prepended with a minus sign. For example, “INTEL - PENTIUM” will find all objects that contain “INTEL” but not “PENTIUM” in that field.

Matching Exact Phrases

To do an “exact match” search, type a word or phrase surrounded by quotes. For example, “LOAD BALANCER” will find all objects that contain the exact phrase “LOAD BALANCER” phrase in that field.

You can’t combine “exact match” searches with “and” or “or” searches. For example,





“LOAD BALANCER” +IBM

is not a valid search value.

Personalizing the Advanced Search Portlet

The Advanced Search portlet has slightly more complex Edit mode options than other Agile portlets. You can select one of the defined searches, and specify the search fields and output fields.

To personalize the Advanced Search portlet:

1. Select a portal page with the Advanced Search portlet, and click the  pencil icon to enter Edit mode.
2. Select one of the defined searches.
3. Select fields to search, and then click the  right arrow to move them into the Selected Attributes box.
4. Select search output fields, and then click the  right arrow to move them into the Selected Attributes box.
5. To remove a field from either of the Selected Attributes lists, select it and then click the  left arrow.
6. Click Update to update the search.

7. Click Return to return to the portlet.

Edit Mode Options

Option	Description
Select Search	Select one of the predefined searches.
Select Fields to Search	Select search attributes by moving them into the Selected Attributes list.
Select Search Output Fields	Select attributes that appear in the search results. Move attributes from the Available Attributes list to the Selected Attributes list. You can also sort attributes by moving them up or down in the Selected Attributes list.
Update	Saves the configuration.
Return	Returns to the page without saving. To save the configuration, make sure you click Update first.
Use Default Configuration	Uses the default search criteria.

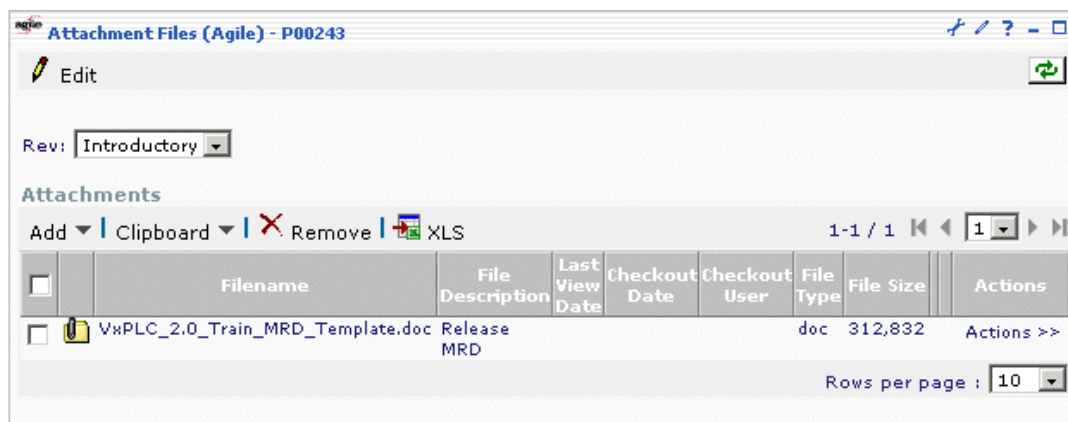
Configure Mode Options

Option	Description
Select Class to Search	Select the class used to search for objects.
Define Search For	Select the class you are defining search criteria for.
Select the Attributes to Include as "Advanced" Search Parameters	Select attributes that users can use to search. Move attributes from the Available Attributes list to the Selected Attributes list. You can also sort attributes by moving them up or down in the Selected Attributes list.
Select Attributes to Display in the Search Results	Select attributes that appear in the search results. Move attributes from the Available Attributes list to the Selected Attributes list. You can also sort attributes by moving them up or down in the Selected Attributes list.
Add or Update	Creates or updates the search definition.
Exclude Inactive Values for List Attributes	To exclude any inactive list values from search results, make sure this box is checked.
Save	Saves the configuration.
Return	Returns to the page without saving.

Attachment Files Portlet

Shows a selected object's Attachments table. To use the Attachment Files portlet, you must first use one of the Search portlets to find an object with an Attachments table, such as an item or

change. You can use the Attachment Files portlet to open, download, add, checkout, cancel checkout or check-in a file, as well as click a file to view it in the Agile Viewer.



To display the attachments table, select values for the Site and Rev. By default, the portlet shows all sites and the Introductory revision.

Edit Mode Options

Option	Description
Available Attributes	Lists available attributes for the table.
Selected Attributes	Lists attributes you selected.
Save	Saves the configuration.
Return	Returns to the page without saving.
Use Defaults	Uses the default configuration.

Configure Mode Options

Configure mode has the same options as Edit mode, except it does not have the Use Defaults option. See [“Edit Mode Options”](#) (on page 60). When you save settings in Configure mode, they become the default settings for the portlet.

Bookmarks Portlet

Shows the current user’s Agile PLM bookmarks. You can define new Agile PLM bookmarks from Agile PLM clients, including the following Agile portlets:

- Business Object
- Saved Search
- Search Results

Agile Bookmarks are also listed in the Quick Navigation portlet.

Business Object Portlet

Shows data for Agile PLM business objects (such as items or change orders). Easily the most powerful and most customizable of Agile's portlets, the Business Object portlet allows you to create portlets that display different types of Agile PLM business objects. The Business Object portlet can be configured to support multiple object classes. You can use the Portlet Configurator to customize the content and layout of the portlet, selecting the presentation of data appropriate for your users.

Note For the Business Object Portlet, the PX menu Configuration in the Configurator is assigned to Base Classes, not Classes or Subclasses.

Item Portlet - Z800-03

Custom Actions ▼

Site: **ALL** Rev: **P5 C00146**

Prototype

Page One Page Two BOM History Manufacturers

Weight	No Privilege
Size	
Rev Release Date	05/04/2004
Rev Incorp Date	
Rev	P5 C00146
Business Unit	Electronics - Consumer
Part Family	No Privilege
Number *	Z800-03
Lifecycle Phase	Prototype
Part Type *	Assembly
Effectivity Date	05/03/2004
Description *	ZAP PDA 512/256
Conversion Factor	No Privilege

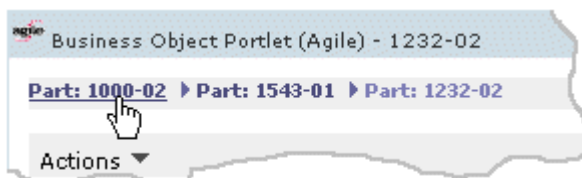
The Business Object portlet supports the following Agile PLM classes:

- ▣ Changes
- ▣ File Folders
- ▣ Items
- ▣ Manufacturer Parts
- ▣ Manufacturers
- ▣ Programs
- ▣ Reports
- ▣ User Groups

Additionally, the Portlet Configurator allows you to configure the Users class to support the User

Profile portlet.

Other portlets, such as the Search Results portlet, can message to the Business Object portlet to update its content when you click an object link. After you view a series of different objects in the Business Object portlet, you can use the “breadcrumbs” feature at the top of the portlet to backtrack to previously viewed objects.



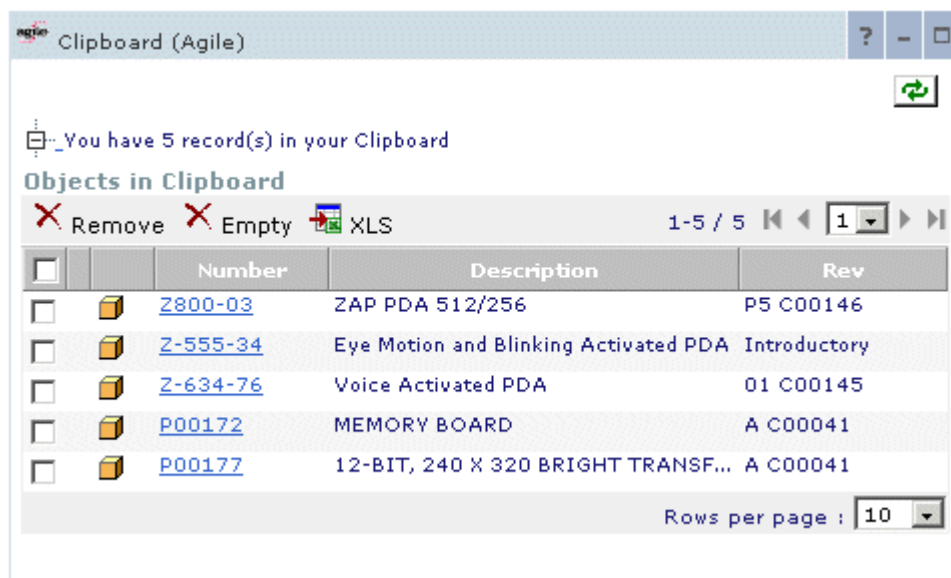
For information on how to use the Portlet Configurator to configure the Business Object portlet, see [“Using the Portlet Configurator”](#) (on page 33).

Note Using "Transfer Authority", "Change Password" and "Change Approval Password" in the Business Object Portlet generates a "This portlet is unavailable" error. The "Edit" and "Print" actions are fine.

Note To add a file attachment to an object displayed in the Business Object Portlet, make sure you have Modify privileges to the File Folder's Title Block > Description field.

Clipboard Portlet

Lets you collect Agile PLM objects to later perform actions on them.



The Clipboard is a temporary storage portlet for the user's current portal session. Each user can store different things in the Clipboard. You can manage the list of objects in the Clipboard to quickly retrieve objects. When you first log in, the Clipboard is empty. When you add objects to the

Clipboard, they remain there until you empty the Clipboard, click Remove or Empty to remove them, or terminate the portal session.

Do not confuse the Clipboard portlet with the Windows Clipboard. You cannot use the Clipboard portlet to copy and paste objects to the Windows Clipboard. It is used only to copy and paste objects between Agile portlets.

You can add objects to the Clipboard from other Agile portlets. Select one or more rows and then choose the Copy To Clipboard action.

On any editable table in the Business Object portlet, you can use the Clipboard > Paste action to paste the contents of the Agile Clipboard into the table. Although the Agile Clipboard may contain disparate objects (such as Items and Changes), only objects supported by the table are pasted.

Note	You do not need to place the Clipboard portlet on a portal page to take advantage of the Clipboard functionality available in other Agile portlets.
------	-----------------------------------------------------------------------------------------------------------------------------------------------------

My Notifications Portlet

Shows the current user's notifications. Notifications appear as separate views in the portlet (although the portal administrator can choose to not display both).

If you click a Subject link in the My Notifications portlet, the portlet displays a detail view of the notification.

The table actions available in the My Notifications portlet vary based on the view that is selected.

View	Available Table Actions
My Notifications	Delete, XLS (Save Table to Excel)
My Notifications - Detail	Delete

Configure Mode Options

Option	Description
Available Views	Lists available views for the portlet: My Notifications
Selected Views	Lists views you have selected.
Save	Saves the configuration.
Return	Returns to the page without saving.

My Things To Do Portlet

Shows objects routed to the current user that he must act on. The My Things To Do portlet

consolidates Action Items, Workflow Routings, and Program Activities within one portlet (although the portal administrator can choose to not display all three views). You can update your assignments by marking them complete or entering a completion percentage.

The table actions available in the My Things to Do portlet vary based on the view that is selected.

View	Available Table Actions
My Action Items	Accept, Decline, Mark Complete, Edit, XLS (Save Table to Excel)
My Workflow Routings	XLS (Save Table to Excel)
My Program Activities	Edit, XLS (Save Table to Excel)
My Requests	Accept, XLS (Save Table to Excel)
My Requests - Detail	Delete, Reject

Displaying Things To Do by Due Date

You can display Action Items or Program Activities based on the date they are due. Click the Display Due In list and select All, 1 Week, 2 Weeks, 1 Month, 2 Months, or 6 Months.

Configure Mode Options

Option	Description
Available Views	Lists available views for the portlet: <ul style="list-style-type: none"> My Action Items My Workflow Routings My Activities
Selected Views	Lists views you have selected.
Save	Saves the configuration.
Return	Returns to the page without saving.

Quick Links Portlet

Lets you add links to other portal pages or to external Web pages. When you click a link, the page can display within the portal or it can open within a new browser window.



You can use the Quick Links portlet to provide users a quick way to navigate to a page for information on how to complete a task, or provide a link to another Web application.

Edit Mode Options

Option	Description
Copy	Copies the XML configuration.
Paste	Pastes the XML configuration.
XML Configuration	Defines the XML configuration for the portlet. For more information, see "Configuring a Quick Links Portlet" (on page 31) .
Save	Saves the configuration.
Return	Returns to the page without saving.
Use Defaults	Uses the default configuration.

Configure Mode Options

Configure mode has the same options as Edit mode, except it does not have the Use Defaults option. When you save settings in Configure mode, they become the default settings for the portlet. See ["Edit Mode Options" \(on page 60\)](#) above.

Quick Navigation Portlet

Lets you navigate to bookmarked or recently visited Agile PLM objects, or objects that you copied to the Clipboard portlet.

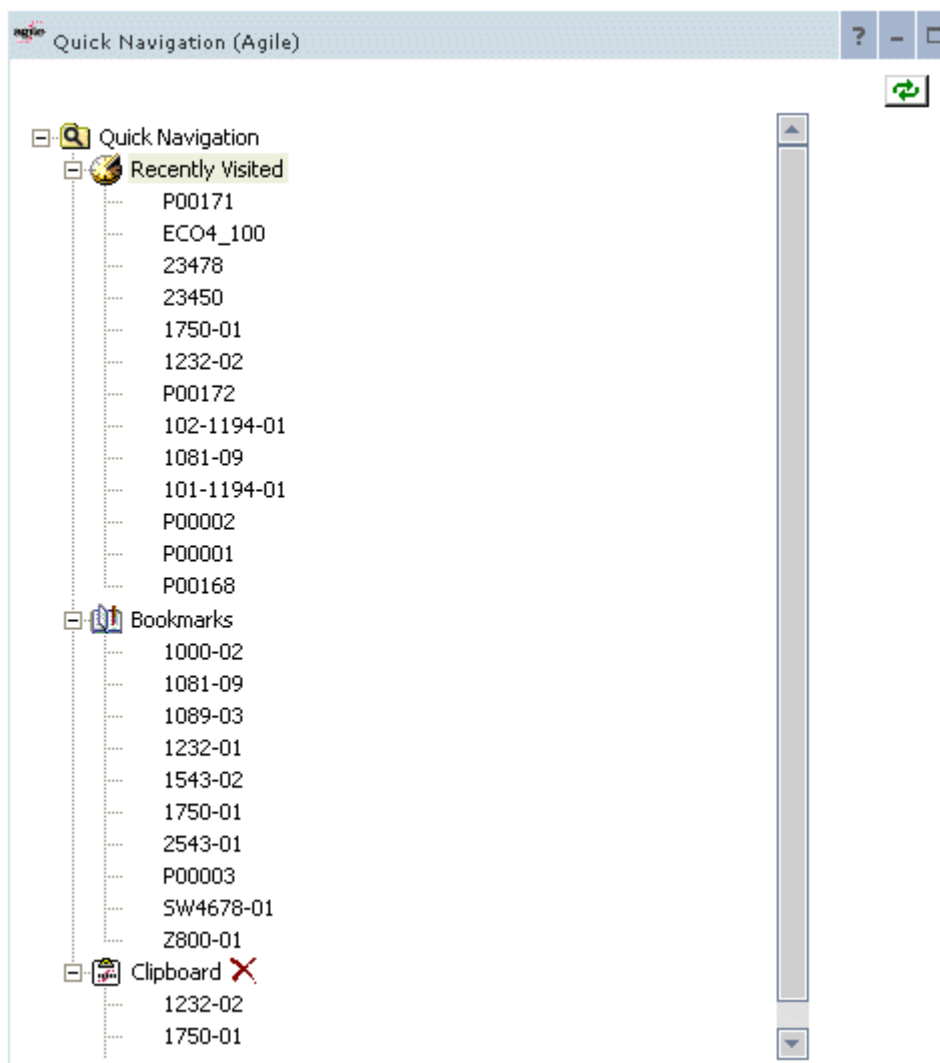
- Recently Visited – During each Agile PLM session, the server maintains a list of the last 10 objects viewed (or 25, 50, or 100, depending on the server's Preference settings).
- Bookmarks – Agile PLM clients, including portlets, allow you to bookmark objects to later return

to them quickly.

Note The Bookmarks portlet also lists Agile PLM bookmarks.

- **Clipboard** – Collects Agile PLM objects to later perform actions on them. You can use the Agile Clipboard (not to be confused with the Windows Clipboard) to copy and paste objects between Agile portlets.

If you click an object link in the Quick Navigation portlet, it automatically updates the object reference for portlets on the current page. Because the Quick Navigation portlet does not have a `portlet.messaging` parameter, you cannot configure it to update the object reference for portlets on other pages



Quick Search Portlet

Searches for Agile PLM objects by specifying a single matching value.



The Quick Search portlet lets you quickly locate objects in the Agile system that match the text you enter. The text must be the start of the ID number you are seeking or the beginning of a word within the object's description. Quick Searches are not case sensitive.

Select a class to search. Type the value to search for, and then click Search. The results appear in the Search Results portlet.

Note	For Quick Searches, the display fields that appear in the Search Results cannot be configured.
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To perform a full-text search of files listed on the Attachments tab of objects, make sure the Search Attachment Contents box is checked.

Note	Auto Complete will not work if there are more than ONE searchable TEXT attributes configured: This limitation seems to only be an Internet Explorer issue. Auto Complete for the FireFox browser works perfectly.
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Using Wildcards

You can use wildcard characters in your search. Agile uses two wildcards: the asterisk (*) and the question mark (?). The question mark finds matches with any other single character. For example, ?at finds hat, cat, and fat, but not splat. The asterisk finds matches with more than one character. For example, *at finds cat, splat, and big hat. The asterisk by itself finds all objects of the specified class.

Note	If you use wildcards, try to make your search as narrow as possible. Otherwise, the search may not be able to return results because it matches too many rows in the database.
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Configure Mode Options

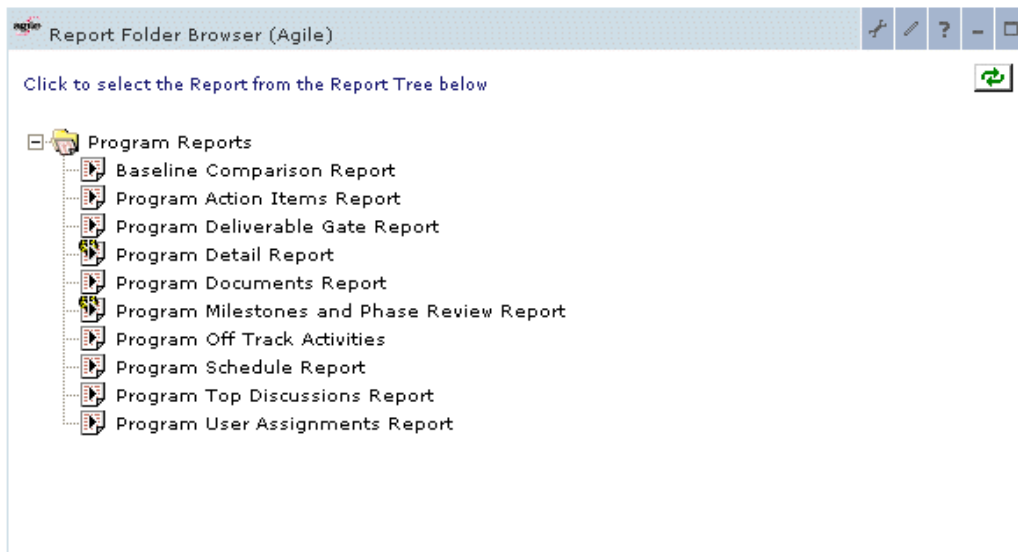
Option	Description
Available Object Types	Lists available object types for the Quick Search portlet.
Selected Object Types	Lists object types you selected. The order is important. The first object type listed is the default one used in the portlet.
Save	Saves the configuration.

Option	Description
Return	Returns to the page without saving.

Report Folder Browser Portlet

Lets you generate reports from one of the Report folders. To generate a report, click any of the listed reports to open the Report wizard.

The Report Folder Browser portlet can be used on multiple portal pages, and you can configure different settings for each page. This allows you to specify different root Report folders on different pages.



Edit Mode Options

Option	Description
Report Tree	Displays a hierarchical list of report folders. Select one to use for the portlet.
Save	Saves the configuration.
Return	Returns to the page without saving.
Use Defaults	Uses the default configuration.

Configure Mode Options

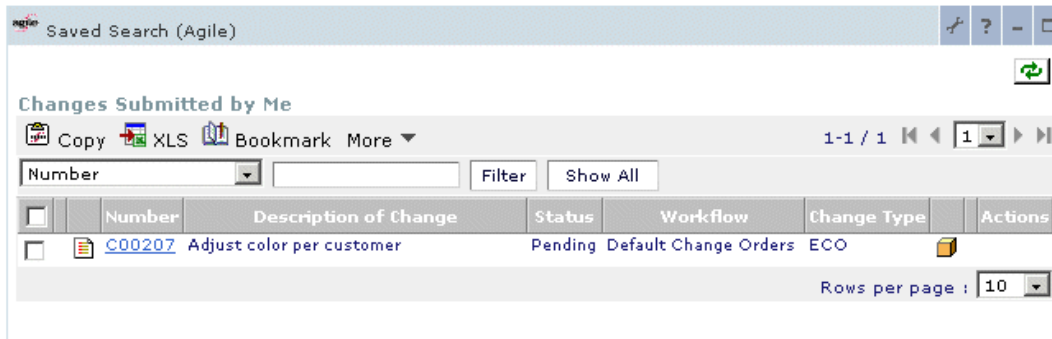
Configure mode has the same options as Edit mode, except it does not have the Use Defaults option. See [“Edit Mode Options”](#) (on page 60). When you save settings in Configure mode, they become

the default settings for the portlet.

Note The Enable Customer External Reports checkbox option is not supported. Do not check that box.

Saved Search Portlet

The Saved Search portlet displays results for a saved search.



The Saved Search portlet must be configured properly before it can be used on a page. The portal administrator should make a copy of this portlet before adding it to a page and configuring it for a particular saved search.

Click an object's number to load its data in another portlet, such as a Business Object portlet. You can also perform relevant actions for each object listed, such as Copy, Bookmark, and XLS (Save Table to Excel).

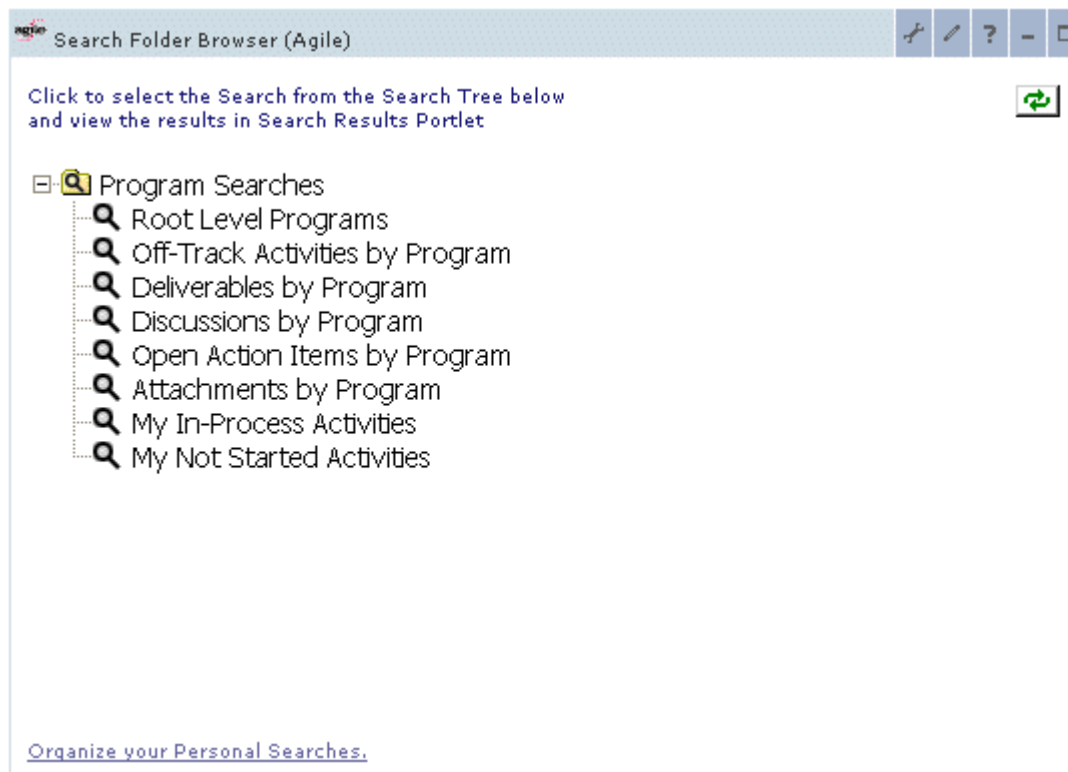
Note The Saved Search portlet does not support parameterized searches, which prompt for search criteria when you run them.

Configure Mode Options

Option	Description
Search Tree	Displays a hierarchical list of search folders and searches. Select a saved search to use for the portlet.
Save	Saves the configuration and returns to the page.
Return	Returns to the page without saving.

Search Folder Browser Portlet

Allows you to browse search folders and select a particular search to run.



You can run any saved searches from the Search Folder Browser portlet, including parameterized searches, which prompt for search criteria when you run them.

To remove searches from your Personal Searches folder, click the Organize Your Personal Searches link at the bottom of the portlet. Select a search, and then click Delete. After that, click Return to go back to the normal portlet view.

Note	For searches that you run from the Search Folder Browser portlet, the display fields that appear in the Search Results are determined by how the searches have been defined.
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Edit Mode Options

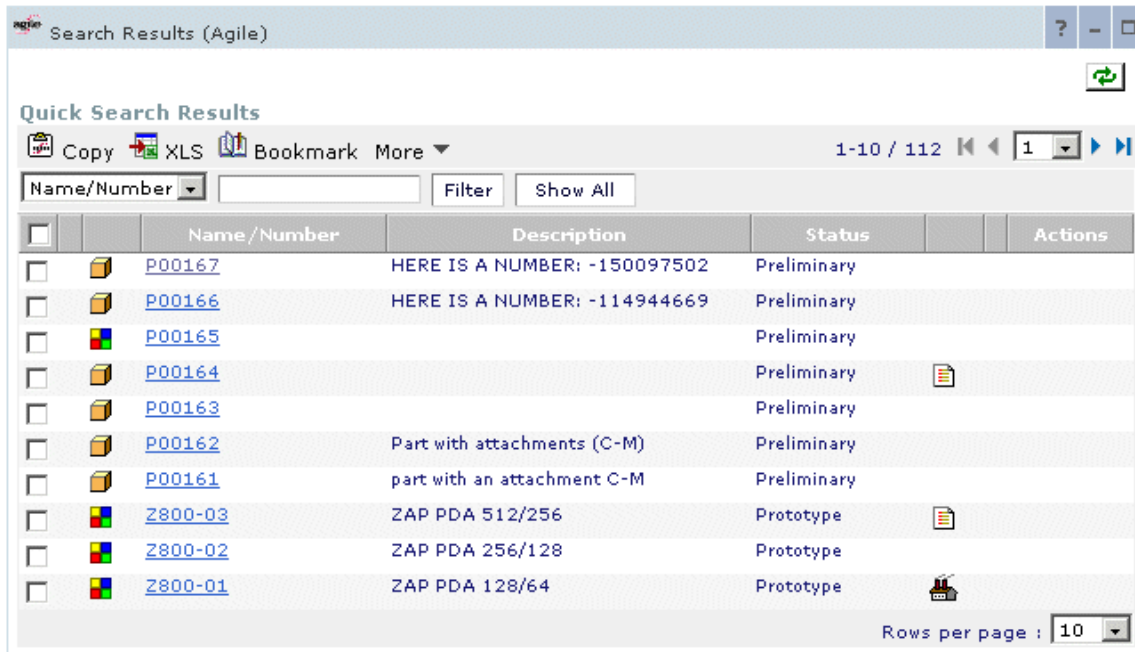
Option	Description
Search Tree	Displays a hierarchical list of search folders. Select a search folder from the tree to use for the portlet.
Save	Saves the configuration and returns to the page.
Return	Returns to the page without saving.
Use Defaults	Uses the default configuration.

Configure Mode Options

Configure mode has the same options as Edit mode, except it does not have the Use Defaults option. See “[Edit Mode Options](#) (on page 60)”. In Configure mode, the Search Tree is used to select the base search folder for the portlet.

Search Results Portlet

Works in conjunction with the Advanced Search, Quick Search, and Search Folder Browser portlet. When you run a search in one of the search portlets, the results appear in the Search Results portlet.



The screenshot shows the 'Search Results (Agile)' portlet. It features a 'Quick Search Results' section with a toolbar containing 'Copy', 'XLS', 'Bookmark', and 'More' buttons. Below the toolbar is a search filter area with a 'Name/Number' dropdown, a text input field, and 'Filter' and 'Show All' buttons. The main area displays a table of search results. The table has columns for 'Name/Number', 'Description', 'Status', and 'Actions'. The results are listed in a table with alternating light and dark rows. The 'Status' column indicates the type of object, such as 'Preliminary' or 'Prototype'. The 'Actions' column contains icons for various actions like 'Copy', 'XLS', and 'Bookmark'.

	Name/Number	Description	Status	Actions
<input type="checkbox"/>	P00167	HERE IS A NUMBER: -150097502	Preliminary	
<input type="checkbox"/>	P00166	HERE IS A NUMBER: -114944669	Preliminary	
<input type="checkbox"/>	P00165		Preliminary	
<input type="checkbox"/>	P00164		Preliminary	
<input type="checkbox"/>	P00163		Preliminary	
<input type="checkbox"/>	P00162	Part with attachments (C-M)	Preliminary	
<input type="checkbox"/>	P00161	part with an attachment C-M	Preliminary	
<input type="checkbox"/>	Z800-03	ZAP PDA 512/256	Prototype	
<input type="checkbox"/>	Z800-02	ZAP PDA 256/128	Prototype	
<input type="checkbox"/>	Z800-01	ZAP PDA 128/64	Prototype	

At the bottom right of the table, there is a 'Rows per page' dropdown menu set to 10.

From the search results, you can click objects to display them in another portlet, such as the Business Object portlet. You can also perform relevant actions for each object listed, such as Copy, Bookmark, and XLS (Save Table to Excel).

Single Signon Portlet

Allows single signon between the portal and the Agile PLM server.



Configure the Single Signon portlet to specify the user ID and password used to connect to the Agile PLM system. This same connection can be used for every Agile portlets page on the portal.

If you use Edit mode to change the Agile PLM user ID and password, make sure you log out and log back into the portal.

Note If you do not configure the Single Signon portlet correctly, other Agile portlets will not work.

Edit Mode Options

Option	Description
Agile User ID	The user's unique ID for logging into the Agile PLM system.
Agile User Password	The user's login password.
Save	Saves the configuration.
Cancel	Cancels configuration changes.

Upload File Portlet

Adds new files to the Agile PLM system. Specify the path of each file to upload, or click Browse to select it.

Options

Option	Description
Browse	Select a file to upload.
Upload Files to the Same File Folders	To upload files to the same folder, check this box. Otherwise, a separate folder is created for each file.
Unzip all Zip Files and Add Them as Individual Files	If the file is a Zip file (an archive format), check this box to unzip the file when you upload it.
Type	Select the File Folder type.
Description	Enter a brief description of the file.
Upload File	Creates a file folder containing the specified file. After the file is uploaded, click Done to return to the portlet.

User Profile Portlet

Lets you view and edit the Agile PLM user profile for the current logged in user. The User Profile portlet is based on the Business Object portlet, but it is specifically for the User class.

For information on how to use the Portlet Configurator to configure the User Profile portlet, see [“Using the Portlet Configurator”](#) (on page 33).

Note	If you change the password in the User Profile portlet, make sure you reset the password used in the Single Signon portlet as well.
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Sending Portlet Errors to the Portal Administrator

If an error occurs with an Agile portlet, you may see the following message appear:

The system did not perform as expected. Please contact your Portal Administrator.

If you see such a message, there should also be a link below it that reads Send Error To Portal Administrator. Click the link to open your default email client and send the contents of the error message to the portal administrator.

Note	The portal administrator's email address must be specified in the portalAdministratorEmail application parameter. For more information, see “Setting Agile Portlet Services Application Parameters” (on page 11).
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Troubleshooting

This chapter includes the following:

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Error Conditions

I get an `APIException.getRootCause` message for all portlets

When you try to display any portlet, an `APIException.getRootCause` message appears in the portlet.

Solution:

1. Make sure that the `server.url` parameter is correct and Agile PLM server is running.
2. Try to connect to <http://plmserver.company.com:7777/Agile/ServerAPIProperties>. If you can't connect, there is a problem with the Agile PLM server. HTTP ports may be configured inconsistently between the Agile PLM server and the Oracle Application Server (OAS). For more details about HTTP port settings for OAS, see the *Agile PLM Installation Guide*.
3. If you updated the Agile PLM server or updated the Agile SDK JAR files, make sure you clean up the Agile SDK cache on the portal server. To clean up the cache, the portal administrator should stop the Portal Server and delete the `AgileSDK.cache` folder under `c:\documents and settings\<user>\Local Settings\Temp`.

Cannot find bundle for base name `com.agile.util.ejb.AGILE_JNDI`

When you try to display any portlet, a "Cannot find bundle for base name `com.agile.util.ejb.AGILE_JNDI`" message appears in the portlet.

Solution:

This is probably caused by a problem connecting from the portal to your application server. Make sure

- You can ping the application server.
- You specified the fully qualified domain name of the application server when you installed Agile PLM 9.2.2 and when you set portlet application parameters such as the `server.url` parameter.
- HTTP ports are configured consistently on the application server. For details about HTTP port settings for Oracle Application Server, see the *Agile PLM Installation Guide*.

- You are trying to connect to an Agile PLM 9.2.2 application server and not a server from a different Agile release.
- You have cleared the Agile SDK cache. If you updated the Agile Portlet Services WAR file on your portal server, your portal server may be using older class files and therefore cannot connect to the updated Agile PLM server. See [“Clearing the Agile SDK Cache”](#) (on page 18).

java.lang.LinkageError: Class javax/activation/DataHandler

When using Agile portlets to download or upload files on WebSphere Portal Express 5.02, you get the following exception:

```
java.lang.LinkageError: Class javax/activation/DataHandler
violates loader constraints: definition mismatch between
parent and child loaders
```

The exception is caused by different versions of activation.jar being loaded within the classpath. The files conflict with the activation.jar file located in <was_root>/java/jre/lib/ext.

Solution:

To work around this problem, rename the following activation.jar files and give them unique names:

<wps_root>/shared/app/activation.jar

<wps_root>/wpcp/v5.0/author/lib/activation.jar

For example, you can rename the first file activation.jar.2 and the second one activation.jar.3


Note	Depending on your environment, you may need to rename other copies of activation.jar to prevent conflicts. Search for any copies of activation.jar under the WebSphere folder. Do not rename the copy in <was_root>/java/jre/lib/ext.
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This object has been modified, please refresh and try again

You were unable to save changes to an object due to an error. You clicked the error icon for a description of the error, and the following message box appeared: “This object has been modified, please refresh and try again.”

Solution:

The object was modified by another user after you entered Edit mode, preventing you from saving your changes. To re-enter your changes, do the following:

1. Click OK in the message box to close it.
2. Click Cancel to exit Edit mode and cancel your changes.
3. Click  Refresh to refresh the object with the latest data from the server.
4. Choose Actions > Edit to enter Edit mode.
5. Re-enter your changes, and click Save.

When I add a file attachment to an object in the Business Object portlet, an error appears: “Cell [Title Block.Description] is read-only”

When you add a file attachment to an object in the Business Object portlet, you may see this error if you do not have appropriate privileges for the File Folders class. The file attachment was added successfully, but the Title Block > Description field of the associated File Folder could not be updated.

Make sure you have Modify privileges to the Title Block > Description field for the File Folders class.

Please select some BaseClasses first

In the Portlet Configurator, I have selected an object class on the Classes tab, and then clicked the Configure tab. An error message appears: "Please select some BaseClasses first!"

Solution:

Although you selected an object class, you did not click Add to define a class view. After you click Add, the portlet title you entered appears in the Defined Class Views list.

This Portlet Instance has not been configured

You tried to configure an Agile portlet in the page layout, and the following error appeared: "This Portlet Instance has not been configured. Please use the Configure or Edit Mode to set the required configuration parameters."

Solution:

The portlet can only be configured from a portal page by using Configure or Edit mode. Do not try to configure the portlet from the page layout.

Configuring Portlet Applications and Portlets

Editing AgilePortlets 2.1 Application Parameters

You tried to edit AgilePortlets 2.1 application parameters, but you were unable to because the fields are read-only. You can add new parameters, but you can't edit any of the existing parameters. In WebSphere Portal 5.0.x, you could modify the parameters.

Solution:

This is a known issue with WebSphere Portal 5.1.x. IBM Support has announced that it will be fixed in the next version of the WebSphere Portal product. To edit an application parameter, you have to delete it first and then recreate it with the new information.

I can't launch the Portlet Configurator

When you try to launch the Portlet Configurator from the XML Configuration window for a portlet, the application doesn't launch, or the configurator.jsp file appears in your browser.

Solution:

1. Make sure the webClientVirtualPath portlet application parameter is correct.
2. Make sure the portletConfiguratorURL portlet application parameter is correct. It should point to the following URL:
<http://webserver:port/configurator/configurator.jsp>
3. Make sure you copied the agile_home\Portlet_51\configurator or agile_home\Portlet_50\configurator folder to your Web server's docroot directory. On Internet Information Services (IIS), the default doc root is c:\inetpub\wwwroot.
4. Make sure you configured the JNLP MIME type for your Web server.
5. Make sure Java Runtime Environment (JRE) 1.4.2 or later is installed on the client computer.

After I configure a portlet and return to the page, the portlet takes up the entire page

Sometimes after you configure a portlet, the portlet expands to fill the entire page even though there are other portlets in the layout.

Solution:

Click the Restore icon in the portlet's title bar to restore it to its proper size.

Agile PLM Privileges

Some fields display "No Privilege"

When you view an Agile PLM object in a portlet, some fields display the value "No Privilege." What does that mean? How can you get privileges to see those fields?

Solution:

The Enforce Field Level Read privilege determines whether the Read privilege is enforced for Agile PLM fields. If you have been assigned a role that includes the Enforce Field Level Read privilege, you may not be able to view the contents of specific fields. The words "No Privilege" appear in any field for which you don't have Read privileges.

If you want to be able to view all fields, ask your Agile PLM administrator to change your user account so that the field-level Read privilege is not enforced. For more information, see the *Agile PLM Administrator Guide*.

Searches

There were too many records found in your search. Please narrow down your search.

The wildcard search you ran matches too many rows in the database. When you run a search with a wildcard, the criteria must be matched against all words in the index, which can run into several million rows on a large database. Therefore, you should avoid creating wildcard searches that are too broad and that match too many rows in the database, for example, a search for "R*".

By default, Agile PLM returns up to 1000 search results for any search. The Agile PLM administrator can increase the maximum number of search results, but doing so could adversely affect system performance.

A search that uses only an asterisk (*) for its criteria returns all records and is not subject to the maximum number of search results.

Solution:

If you see this error in the Search Results portlet, refine your search criteria and try again. Enter a more specific search string. For example, "Resistor*" is more specific than "R*".

Business Object Portlet

All of my Business Object portlets are read-only

You configured several different Business Object portlets, but they are all read-only. You can't modify objects that appear in the portlets. How can you make Business Object portlets editable?

Solution:

When you configure the portlet, make sure the Edit action is included in one of the Action Groups. The XML configuration for Action Groups should look like this:

```
<action-groups>
  <action-group id="0" name="Custom Actions" groupMode="1"
    collapseLimit="0"
    numberOfActionsToDisplayAsButtons="0">
    <action id="9" ref-id="%common.edit" name="Edit"/>
  </action-group>
</action-groups>
```

If you prefer to make a Business Object portlet read-only for your portal, don't include the Edit action in any of the portlet's Action Groups.

Of course, you can edit an object in Agile PLM only if you have the Modify privilege for that object. If you don't have the Modify privilege, the Edit action is disabled.

For more information, see "[Action Groups](#) (on page 40)".

I cannot display the Gantt Chart

From a Business Object portlet that displays program activities, you tried viewing the Gantt Chart by clicking the Gantt Chart action, but nothing happened, or you got the message "There is a problem logging into the Agile PLM Server. Please contact your administrator."

Solution:

Make sure the webClientVirtualPath portlet application parameter is correct. See "[Setting Agile Portlet Services Application Parameters](#) (on page 11)".

To check whether the Web client path is correct, open a browser and type the webClientVirtualPath value plus

"/PLMServlet". The Agile Web Client login screen should appear.

I clicked the Assignment tab of a User Group, and the page displayed an error: "The system did not perform as expected."

You tried to display the Assignment tab of a User Group object in the Business Object portlet, but the page displayed an error.

Solution:

Log in as an portal administrator, and configure the Business Object portlet. Make sure the User Group > Assignment > Date Group Table attribute is not selected for any attribute groups. The Date Group Table attribute is not supported by Agile portlets.

When I create a new Affected Item for a Change, the popup window doesn't display all required fields

You used the Business Object portlet to define a Change object, such as an ECO. On the Affected Items tab of the ECO, you clicked Create New to create a new part. However, the popup window that lets you create the part doesn't display all of the required fields for that class.

Solution:

This is a known issue with the Business Object portlet. If you define Page Two or Page Three attributes to be required, they don't appear in the popup window when you create a new part in the Affected Items tab of a Change. After you create the part, edit it to fill in the required fields.

I configured the Business Object portlet to message to the page, but it is messaging to itself

You set the portlet.messaging parameter for a Business Object portlet to "page". However, when you click a part in the BOM table, the portlet updates itself instead of messaging to other portlets on the same page.

Solution:

For objects supported by the Business Object portlet, the portlet overrides the portlet.messaging parameter and always messages to itself.

If you do not want the Business Object portlet to message to itself for a particular class, do not configure the portlet to support that class. However, the BOM table cannot message to the page because the table lists objects of the same class as the parent object, that is, other parts. Therefore, when you click a part on a BOM table, the portlet updates itself.

Importing Portal Configurations

I was not able to import a portal configuration successfully using the XML Configuration Interface

You tried using the XML Configuration Interface to import a portal configuration, but it returned the following error:

```
XMLA0009E: Could not connect to portal.
```

Solution:

Before trying to import a portal configuration that you exported using the XML Configuration Interface, remember to place the AgilePortletPack2.war file in the <wps_root>\installableApps folder. For complete details on the XML Configuration Interface, see the IBM WebSphere Portal InfoCenter.