



# **ALBPM Admin Center**

**Version: 6.0**

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# Admin Center Overview

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Admin Center is the management and configuration component of AquaLogic<sup>®</sup> BPM Enterprise.

With Admin Center, system administrators can do the following:

- Configure or create one or more [What is a Directory?](#) on page 6
- Configure ALBPM [Web Applications and Services](#) on page 7
- [Starting BPM Web Applications](#) on page 9 or [Stopping a BPM Web Application](#) on page 10 Process Administrator and, in the Standalone Edition, all other Web applications and services.
- [Installing a Maintenance Pack](#) on page 17

Admin Center is also the application from which you can run the Configuration Wizard. This wizard automates a number of configuration tasks, and is described separately.

## Admin Center Editions

AquaLogic BPM Enterprise is available in the following editions:

- Standalone Edition
- BEA WebLogic Edition
- IBM WebSphere Edition

Each of these editions has specific configuration requirements and options. Therefore, there is a specific edition of Admin Center for each, so you do not need to worry about options that do not apply to your particular edition. The following topics describe the characteristics of each edition:

- [Standalone Edition](#) on page 4
- [BEA WebLogic and IBM WebSphere Editions](#) on page 5

## System Requirements

In the Windows and Linux distributions of all editions, the JDK is included in the installation, as is the case with Studio. All editions for all platforms also include the appropriate certified JDBC drivers each supported database provider. The databases supported by AquaLogic BPM 6.0 are:

- IBM DB2 8.x and 9.x
- Microsoft SQL Server 2005
- Oracle 9.2 and 10.0

## Configuration Wizard

All editions of ALBPM Enterprise include the [Configuration Wizard](#) on page 24, a utility which simplifies configuration tasks. The wizard performs the configuration tasks required by each edition.

## Standalone Edition

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The Standalone edition directly controls all Web Applications and in general is the simplest to configure and run.

To install and configure the Standalone Edition, all you need is access to a working database server and the permissions required to install a database. The Standalone Edition includes a built-in Tomcat web application server and thus requires no external application server. On the other hand, the Standalone Edition does not support advanced capabilities such as clustering, JMS, or workload management.

Since the Standalone Edition directly controls the embedded Tomcat Web server, from Admin Center you can individually enable and disable each Web application or service. Also, the Standalone Edition of Admin Center knows the URL for each web application, so a set of links to each available application is presented in the main Admin Center window. If a given application is disabled, its link will be disabled as well.

## BEA WebLogic and IBM WebSphere Editions

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Describes Application Server editions of Enterprise

The ALBPM Enterprise BEA WebLogic Edition and IBM WebSphere editions differ from the Standalone Edition in that all the Web applications and services except for Process Administrator are hosted on either the WebLogic or WebSphere servers. As a result, Admin Center for this edition does not have the ability to start and stop individual Web applications and services. Instead, these are managed from WebLogic or WebSphere.

Process Administrator runs from the built-in server in all editions. Therefore, you may start and stop only this Web application from the WebLogic and WebSphere editions of Admin Center.

Likewise, in these editions Admin Center is only aware of the URL for Process Administrator and therefore does not provide links to any of the other Web applications.

## What is a Directory?

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Explains what a directory is under ALBPM

In AquaLogic BPM, a *directory* is a repository used to store information about the organization, including ALBPM project data at the organization level. The directory may be stored completely in a database managed by ALBPM, or alternatively some of the information may be obtained from a directory service provider. At present, Sun ONE LDAP, generic JNDI, and Microsoft Active Directory are the supported providers.

The following organization information is always stored in a database managed by AquaLogic BPM Enterprise:

- Business Parameters
- Roles
- Configuration information
- Calendars
- Holidays

The following organization information may be stored in the directory database managed by Enterprise, or alternatively be obtained from an external directory provider:

- Participants
- Groups
- Organizational Units

When obtained from a directory provider, information defining groups, participants, and organizational units cannot be changed from ALBPM components such as Process Administrator. These organizational elements must be added, deleted, or edited from the directory provider. However, participants are *assigned to roles* from ALBPM Process Administrator and the role assignment information is managed by ALBPM independently from the directory service. In other words, you can change role assignments for any participant from Process Administrator, regardless of whether you are using an external directory provider or not.



**Restriction:** When obtained from a directory provider, participant, group, and organizational unit definitions are read-only from ALBPM.

# Web Applications and Services

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Describes the Web applications and services provided by ALBPM Enterprise

AquaLogic BPM Enterprise includes the following web applications:

- Process Administrator
- WorkSpace
- WorkSpace Administrator
- Archive Viewer

In addition, Enterprise also provides the following services:

- Feeds Service
- PAPI Web Service

Some of these applications are used optionally, and some are always used. Generally speaking you will always run Process Administrator, WorkSpace, and WorkSpace Administrator. On the other hand, Archive Viewer, Feeds Service, and PAPI Web Service may or may not be required in your environment.

## Log Viewers

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At the bottom of the Admin Center, there are six log tabs that get populated with information from log files. The log tabs provide a convenient way to view logged information without having to find the log file in the directory system.

Each tab can be made to float or can be docked to the Admin Center window. If set to float, they can be moved and resized independently on the screen, so all of them can be visible at the same time. The screen configuration of the log tabs is retained between Admin Center sessions.

The content of each tab is the following:

- **Servlet Engine** - This file contains standard input/output information when the Web applications such as the Process Administrator and Archive Viewer are running and indicates when those applications have been started and stopped successfully.
- **BPM Web Applications** - This file contains the Tomcat logs for the Web applications themselves.
- **Process Administrator** - This file contains the logged information for Process Administrator. The location of this log file and the log message severity level can be set in the **Process Administrator** tab of the **Configuration** dialog box.
- **WorkSpace** - This file contains the logged information for the WorkSpace Web application. The location of this log file and the log message severity level can be set in the **WorkSpace** tab of the **Configuration** dialog box.
- **WorkSpace Administrator** - This file contains the logged information for the WorkSpace Administrator Web application. The location of this log file and the log message severity level can be set in the **WorkSpace Administrator** tab of the **Configuration** dialog box.
- **PAPI Web Services** - This file contains the logged information for the PAPI Web Services Web service. The location of this log file and the log message severity level can be set in the **PAPI Web Services** tab of the **Configuration** dialog box.



# Starting BPM Web Applications

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You can start BPM Web applications from the main Admin Center Window.

Before you can start BPM Web Applications, a directory must be configured. If a directory is not configured and you attempt to start the BPM Web Applications, Admin Center will notify you, and ask if you want to configure a directory.



**Note:** Only the Standalone edition controls all Web applications and services. The WebSphere and WebLogic editions only control the Process Administrator Web application.

To start the BPM Web Applications:

1. On the main Admin Center Window, click on **Start BPM Web Applications** (▶).

If this command is not enabled, the BPM Web Applications may already be running, or may be in the process of starting or stopping.

The Tomcat application server starts. The Web applications which become available are Process Administrator plus the applications specified under the *BPM Web Applications Configuration Options* on page 11 tab of the Configuration dialog box.

## Stopping a BPM Web Application

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You can stop BPM Web applications from the main Admin Center Window.

To stop the BPM Web Applications:



**Note:** Only the Standalone edition controls all Web applications and services. The WebSphere and WebLogic editions only control the Process Administrator Web application.

1. Click **Stop BPM Web Applications** (■).  
The BPM Web Applications will stop.

When the BPM Web Applications server is fully stopped, the **Start BPM Web Applications** command will be enabled. This may take a few minutes.



**Important:** If one or more process execution engines were started from Process Administrator, stopping the BPM Web applications (and hence Process Administrator), will NOT stop the engines. If you exit Admin Center under these conditions, any running process engine will continue to run indefinitely complete with its JVM, using system resources including a considerable amount of memory. To avoid this, you must first stop the process engine from Process Administrator, and then stop the BPM Web applications.

# BPM Web Applications Configuration Options

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Describes configuration options under the BPM Web Applications tab

The following settings are available in the **BPM Web Applications** tab of the **Configuration** dialog box:

## Preferences

- **JDK Home Folder** - Points to the location of the JDK which the BPM Web Applications will use. In the Windows and Linux versions, the default path points to the JDK included in the Admin Center installation. A different JDK can be specified, but this is not recommended. In versions which do not include a JDK, the default JDK is the one set during installation.



**Note:** Do not select the path of a JRE. ALBPM requires some files which are only included in a JDK, and will not work with a JRE.

- **Port** - The port where the BPM Web Applications context accepts HTTP requests for enabled Web applications such as Process Administrator or Workspace. In the application server editions this only applies to Process Administrator. The default HTTP port for ALBPM 6.0 is 8686.
- **Shutdown Port** - The port used by the BPM Web Applications server to receive shutdown requests. The default shutdown port for ALBPM 6.0 is 8886.
- **When BPM Web Applications are running, run the following:** - Use the check boxes in this section to enable or disable the various Web applications and services. For most installations, at least Workspace and Workspace Administrator will be enabled. The following applications and services can be set:

- Workspace
- RSS Feeds service
- Workspace Administrator
- Archive Viewer
- PAPI Web services



**Note:** This setting is only available in the Standalone Edition. Web applications in other editions are controlled from the Web application server.

- **Request confirmation on exit when BPM Web Applications are running** - If this option is selected and Web applications are not installed as a service, a dialog box will remind the user that shutting down Admin Center will stop BPM Web applications running on it, and ask for confirmation before doing so. In the Web application servers editions, this only applies to Process Administrator.

## Install as Service



**Note:** This section is only featured under Windows.

- **Service name** - The name the service will be identified with. The default name for this service is "BPM Web Applications". To give it a custom name, enter the name in the text box. You must set the name before installing the service.
- **Install as Windows Service or Uninstall as Windows Service** - If BPM Web Applications context is *not* installed as a Windows service, this button will be labeled *Install as a Windows Service*. In this case, click on it to install the BPM Web Applications context as a service in the operating system.

If the BPM Web Applications context is installed as a service, this button will be labeled *Uninstall as a Windows Service*. Click on it to uninstall the service.

In either case, the change takes effect immediately.

This option is disabled if the BPM Web applications context is running, so you must stop BPM Web applications before using it. When installing, Admin Center sets the service to *Manual*. You can set it to *Automatic* or *Disabled* from the Windows Services utility. If set to Automatic, the service will start on system startup. If set to Disabled, the only way to start the service from Admin Center is by uninstalling and installing the service, which effectively sets the startup type to Manual again.

# Process Administrator Configuration Options

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Process Administrator is the Web Application you use to administer processes and related resources, such as organization elements. Process Administrator is also where you stop and start the process execution engine(s).

The following sections describe the settings available in the **Process Administrator** tab of the Admin Center **Configuration** dialog box. Unless you have a specific motive, these settings do not need to be changed.

## Log

- **Log Folder** - Specifies the folder path where the log should be written. In most cases the default setting need not be changed.
- **Log Message Severity Level** - Select the minimum *Log Severity Levels* on page 25 an event should have in order to be logged.

## Single Sign On

- **Enable SSO** - Checkbox which enables Single Sign On (SSO). When SSO is enabled, you may specify the SSO implementation class.
- **SSO Implementation Class** - Specifies the name of the class which obtains the user and implements authentication. This class must implement the interface `fuego.web.SSOUserLoginInterface`.

## Saving your settings

To save the changes and close the Configuration Utility, click **OK**.



**Note:** Saved changes do not take effect until the BPM Web Applications are stopped and started again.

# Workspace Configuration Options

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Workspace is the AquaLogic BPM Suite component where end users carry out tasks that are part of a business process.

The following sections describe features available in the **Workspace** tab of the Admin Center **Configuration** dialog box. In basic installations, you will not need to use the settings and features described here.

## Log

- **Log Folder** - Specifies the folder path where the log should be written. In most cases you do not need to change the default setting.
- **Log Message Severity Level** - You can select the minimum [Log Severity Levels](#) on page 25 an event should have in order to be logged.

## Single Sign On

- **Enable SSO** - Checkbox which enables Single Sign On (SSO). When SSO is enabled, you may specify the SSO implementation class.
- **SSO Implementation Class** - Specifies the name of the class which obtains the user and implements authentication. This class must implement the interface `fuego.web.SSOUserLoginInterface`.

## Generate Workspace Web Archive (WAR)



**Note:** This feature is only available in Enterprise Standalone edition.

To deploy the Workspace in a Web application server other than the embedded server provided by Enterprise, click on **Generate Web Archive (WAR)...** to generate the WAR file. You can then use this file to deploy the application in the external Web application server following the documentation for that server. The URL to access Workspace should take a form such as `http://host:portnumber/webappname`, where *host* is the name of server where the external Web application server runs, *portnumber* is the configurable port where the portal runs, and *webappname* is the name used for Workspace on the external Web application server.

## Saving your settings

To save the changes and close the **Configuration** dialog box, click **OK**.



**Note:** Saved changes do not take effect until the BPM Web Applications are stopped and started again.

# WorkSpace Administrator Configuration Options

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WorkSpace Administrator is the AquaLogic BPM Suite component where an administrator can define views and manage the WorkSpace environment.

The following sections describe features available in the **WorkSpace Administrator** tab of the Admin Center **Configuration** dialog box. In basic installations, you will not need to use the settings and features described here.

## Log

- **Log Folder** - Specifies the folder path where the log should be written. In most cases you do not need to change the default setting.
- **Log Message Severity Level** - You can select the minimum [Log Severity Levels](#) on page 25 an event should have in order to be logged.

## Single Sign On

- **Enable SSO** - Checkbox which enables Single Sign On (SSO). When SSO is enabled, you may specify the SSO implementation class.
- **SSO Implementation Class** - Specifies the name of the class which obtains the user and implements authentication. This class must implement the interface `fuego.web.SSOUserLoginInterface`.

## Generate WorkSpace Administrator Web Archive (WAR)



**Note:** This feature is only available in Enterprise Standalone edition.

To deploy the WorkSpace Administrator in a Web application server other than the embedded server provided by Enterprise, click on **Generate Web Archive (WAR)...** to generate the WAR file. You can then use this file to deploy the application in the external Web application server following the documentation for that server. The URL to access WorkSpace Administrator should take a form such as `http://host:portnumber/webappname`, where *host* is the name of server where the external Web application server runs, *portnumber* is the configurable port where the portal runs, and *webappname* is the name used for WorkSpace Administrator on the external Web application server.

## Saving your settings

To save the changes and close the Configuration dialog box, click **OK**.



**Note:** Saved changes do not take effect until the BPM Web Applications are stopped and started again.

# PAPI Web Services Configuration Options

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PAPI Web Services provides access to PAPI functionality as a Web Service. This component does not need to run unless software in your environment specifically requires it.

The following sections describe features available in the **PAPI Web Services** tab of the Admin Center **Configuration** dialog box. In basic installations, you will not need to use the settings and features described here.

## Log

- **Log Folder** - Specifies the folder path where the log should be written. In most cases you do not need to change the default setting.
- **Log Message Severity Level** - You can select the minimum *Log Severity Levels* on page 25 an event should have in order to be logged.

## Single Sign On

- **Enable SSO** - Checkbox which enables Single Sign On (SSO). When SSO is enabled, you may specify the SSO implementation class.
- **SSO Implementation Class** - Specifies the name of the class which obtains the user and implements authentication. This class must implement the interface `fuego.web.SSOUserLoginInterface`.

## Advanced Authentication

- **Enable Http Basic Authentication** - Set this to enable basic http authentication.
- **Enable UsernameToken Profile Authentication** - Set this to enable UsernameToken profile authentication.
- **Set PRESET ID for PRESET authentication** - Use this field to enter the preset ID.

## Generate PAPI Web Services Web Archive (WAR)



**Note:** This feature is only available in Enterprise Standalone edition.

To deploy the PAPI Web Services in a Web application server other than the embedded server provided by Enterprise, click on **Generate Web Archive (WAR)...** to generate the WAR file. You can then use this file to deploy the application in the external Web application server following the documentation for that server. The URL to access PAPI Web Services should take a form such as `http://host:portnumber/webappname`, where *host* is the name of server where the external Web application server runs, *portnumber* is the configurable port where the portal runs, and *webappname* is the name used for PAPI Web Services on the external Web application server.

## Saving your settings

To save the changes and close the Configuration dialog box, click **OK**.



**Note:** Saved changes do not take effect until the BPM Web Applications are stopped and started again.



## Installing a Maintenance Pack

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You can install a maintenance pack for ALBPM Enterprise from the Configuration dialog box. You can also roll back previous maintenance pack or hotfix updates.

In order to install a Maintenance Pack, the BPM Web applications must be stopped, and you must have an update file ready.

To install a maintenance pack update:

1. In the **Configuration** dialog box, select the **Service Pack Updates** tab.
2. Click on the **Local Update...** button.  
The **Open** dialog box appears.
3. Select the update file (.upd or .upd.zip) and click **Open**.  
Admin Center will proceed with the update.

ALBPM Enterprise is updated.

## Viewing Virtual Machine Properties

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You can view the properties of the Virtual Machine Admin Center is running in from the **About** dialog box.

To view the virtual machine properties:

1. In Admin Center, click **About**.  
The **About** dialog box will display.
2. Click on the **Virtual Machine Properties** tab.


A list of properties of the virtual machine will be shown, including `java.runtime.version`, `java.class.path`, and other parameters.

## Adding a Directory Configuration

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You can add a directory configuration in Admin Center by running the Configuration Wizard from the Configuration dialog box.

To add a directory service configuration to the Admin Center:

1. Click **Configuration** .  
The **Configuration** dialog box appears.
2. Select the **Directory** tab.
3. Click **Add...**.  
The *Configuration Wizard* on page 24 launches.
4. See *BPM Enterprise Configuration Guide* for further instructions.

To use the new directory configuration, you must *Setting the Current Directory Configuration* on page 22.

## Removing a Directory Configuration

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You can remove a directory configuration from the Configuration dialog box.

In order to remove a directory configuration, the BPM Web applications must be stopped.

To remove a directory configuration:

1. Click on **Configuration**.  
The **Configuration** dialog box appears.
2. In the **Configuration** dialog box, select the **Directory** tab.  
The list of configured directories is shown.
3. Select the directory service configuration to remove and click **Remove...**.  
Admin Center requests confirmation that you want to remove this directory.
4. Click **Yes** to confirm.  
The directory configuration is removed.



**Note:** This procedure removes the configuration information from your ALBPM installation. It does not drop the database schema or tables, and it does not delete the information stored in the database.

## Editing a Directory Configuration

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You can edit some settings for a directory configuration, such as the directory database provider properties and the directory service properties. You cannot change a database-only directory configuration to a database plus directory service configuration, or vice versa.

In order to edit a directory configuration, the BPM Web applications must be stopped.

To edit a Directory Configuration:

1. Click on **Configuration**.  
The **Configuration** dialog box appears.
2. In the **Configuration** dialog box, select the Directory tab.  
The list of configured directories is shown.
3. Select the directory service configuration to edit and click **Edit...** .  
The **Edit Directory Configuration** dialog box appears.
4. Click on **Configuration**.  
The **Configuration** dialog box appears.
5. In the **Configuration** dialog box, select the Directory tab.  
The list of configured directories is shown.
6. Select the directory service configuration to edit and click **Edit...** .  
The **Edit Directory Configuration** dialog box appears.
7. If this directory configuration uses an external directory service, you can edit either the database properties or the directory service properties with the **Configuration** drop-down list. Select **Directory Provider** to edit database properties, and **Organization Provider** to edit the directory service properties.  
The desired property page will appear.
8. Edit the properties as desired.
9. Click **OK**.  
The new directory properties take effect.

To change the administrator password for the directory, see [Changing a Directory Configuration Password](#) on page 23.

## Setting the Current Directory Configuration

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You can store several directory configurations, but only one of these can run at any given time in the same server. This is called the current directory configuration.

In order to change the current directory configuration, the BPM Web applications must be stopped.

To set the current directory configuration:

1. Click **Configuration**.

The **Configuration** dialog box appears.

2. In the Configuration dialog box, select the **Directory** tab.

The stored directory service configurations are shown in a list. The current directory service configuration for the process execution engine is shown in bold at the top of the list as the **Current Directory**.

3. To set another directory service configuration as current, select it from the list and click **Set as Current**.

The selected directory service configuration is now the Current Directory.

## Changing a Directory Configuration Password

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You can change the administrative password for a directory configuration from the Configuration dialog box.

In order to change the administrator password, the BPM Web applications must be stopped.



**Note:** You can only change the administrator password for a directory if the directory uses a database managed by ALBPM. If your directory uses an external directory service provider, the administrator is a member of the directory, with a password is set by that service and read-only from ALBPM.

To change the administrator password for a directory configuration:

1. Click **Configuration**.  
The **Configuration** dialog box will appear.
2. In the **Configuration** dialog box, select the **Directory** tab.
3. Select a directory from the list and click on the **Edit...** button.  
The **Edit Directory Configuration** dialog box will appear.
4. Click on **Change Password...**  
The **Change Password** dialog box will appear.
5. In the **Change Password** dialog box, enter the password for a user with administrative write privileges for the host database in the **Password** field.
6. Enter the new password for the BPM administrator in the **New Password** and **Confirm Password** fields.
7. Click **OK**.  
The administrator password is changed.

## Configuration Wizard

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The purpose of the Configuration Wizard is to provide a simple way to configure AquaLogic® BPM Enterprise under the most common environments.

The Configuration Wizard runs when you add a directory in the **Directory** tab of the Admin Center **Configuration** dialog box. The Configuration Wizard can also be run directly from the AquaLogic BPM Enterprise installer at the end of the installation.

For the standalone and WebLogic editions, the Configuration Wizard may be able to configure everything, including the creation of the WebLogic domain.

In many cases, the ALBPM administrator will not have all the required permissions to configure the databases used by the ALBPM process execution engine and directory services. In such a situation the Configuration Wizard can still save a lot of time, by preparing database scripts which can be handed over to your database administrator.

For detailed instructions see the [BPM Enterprise Configuration Guide](#).



## Log Severity Levels

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For each Web application, service, or engine, you can set a minimum severity level an event must have in order to be logged. This way, you can control the rate at which the log file will grow.

The severity levels are, from least severe to most severe:

1.  - Debug
2.  - Info
3.  - Warning
4.  - Severe
5.  - Fatal

You set the *least* severe message that should be logged, so that any messages less severe than your choice will not be logged. For example, if you set the severity level to Warning, then the server will log Warning, Severe, and Fatal event messages, but not Debug and Info messages.