BEAAquaLogic®
Pages

Installation and Upgrade Guide

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Welcome to AquaLogic Pages

This book describes how to install and deploy AquaLogic Pages 1.0.

How to Use This Book

This guide has been designed to be a quick reference for users with installation experience, while also providing detailed instructions for users installing for the first time.

Audience

This guide is written for the user responsible for installing Pages. This user must have strong knowledge of the platform operating system, database, web servers, and any other third-party software required for installation.

Organization

This guide includes the following chapters:

- This chapter provides information on how to use this guide and describes other resources available to help install, deploy, and administer Pages.

- Chapter 2, "Installation Prerequisites," provides hardware and software requirements, as well as environmental and third-party software prerequisites. You must read this chapter and meet the prerequisites prior to proceeding to the installation.

- Chapter 3, "Quickstart Overview," provides a high level overview of the Pages installation procedures. Sufficient detail is provided to allow an experienced portal administrator to quickly install Pages. Cross-references link the high level tasks to detailed procedures in other chapters.

- Chapter 4, "Installing Pages," provides detailed instructions for installing and configuring Pages.

- Appendix A, "Licensing," describes how licensing is configured for Pages.

- Appendix B, "Uninstalling Pages," provides instructions for uninstalling Pages.

- Appendix C, "Troubleshooting," provides information on troubleshooting the installation and configuration process.

Typographical Conventions

This book uses the following typographical conventions.

Table 1-1 Typographical Conventions

Convention	Typeface	Examples/Notes
• Items you need to take action on (such as files or screen elements)	**bold**	• Upload **Procedures.doc** to the portal. • To save your changes, click **Apply Changes**.
• User-defined variables • New terms • Emphasis • Object example names	*italic*	• The migration package file is located in *install_dir*\serverpackages. • *Portlets* are Web tools embedded in your portal. • The URI *must* be a unique number. • The example Knowledge Directory displayed in Figure 5 shows the *Human Resources* folder.

• Text you enter
• Computer generated text (such as error messages)
• Code samples
	computer	• Type `Marketing` as the name of your community.
		• This script may generate the following error:
		`ORA-00942 table or view does not exist`
		• Example:
		
		`<setting name="SSOCookieIsSecure">`
		
		    `<value xsi:type="xsd:integer">`
		    `</value>`
		
		`</setting>`

• Environment variables	ALL_CAPS	• The default location of BEA_HOME is C:\bea.

BEA Documentation and Resources

This section describes other documentation and resources provided by BEA.

Table 1-2 BEA Documentation and Resources

Resource	Description
Installation and Configuration Worksheets	These worksheets enable you to record prerequisite information necessary for installing and configuring AquaLogic Pages. Both worksheets are included in one file.
	It is available on edocs.bea.com/pages/docs10.
Release Notes	The release notes provide information about new features, issues addressed, and known issues in the release.
	They are available on edocs.bea.com/pages/docs10 and on any physical media provided for delivering the application.
Administrator Guide	This guide describes how to manage and maintain Pages.
	It is available on edocs.bea.com/pages/docs10.
Online Help	The online help is written for all levels of Pages users. It describes the user interface for Pages and gives detailed instructions for completing tasks in Pages.
	To access online help, click the help icon in the upper right of the Dashboard or any object in page view. You can also access help by clicking the **More Help** link in the editors.
Deployment Guide	This guide is written for business analysts and system administrators. It describes how to plan your AquaLogic User Interaction deployment.
	It is available on edocs.bea.com/alui/deployment/index.html.
Developer Guides, Articles, API Documentation, Blogs, Newsgroups, and Sample Code	These resources are provided for developers on the BEA dev2dev site (dev2dev.bea.com). They describe how to build custom applications using AquaLogic User Interaction and how to customize AquaLogic User Interaction products and features.

Table 1-2 BEA Documentation and Resources

Resource	Description
AquaLogic User Interaction (ALUI) and AquaLogic Business Process Management (ALBPM) Support Center	The ALUI and ALBPM Support Center is a comprehensive repository for technical information on ALUI and ALBPM products. From the Support Center, you can access products and documentation, search knowledge base articles, read the latest news and information, participate in a support community, get training, and find tools to meet most of your ALUI and ALBPM-related needs. The Support Center encompasses the following communities:
	Technical Support
	Submit online service requests, check the status of your requests, search the knowledge base, access documentation, and download maintenance packs and hotfixes.
	User Group
	Participate in user groups; view webinars, presentations, the CustomerConnection newsletter, and the Upcoming Events calendar.
	Product Center
	Download product updates, maintenance packs, and patches; view the Product Interoperability matrix (supported third-party products and interoperability between products).
	Developer Center
	Download developer tools, view code samples, access technical articles, and participate in discussions.
	Education Services
	Review the available education options, then choose courses by role and delivery method (Live Studio, Public Classroom Training, Remote Classroom, Private Training, or Self-Paced eLearning).
	Profile Center
	Manage your implementation details, local user accounts, subscriptions, and more.
	If you do not see the Support Center when you log in to http://support.plumtree.com, contact ALUISupport@bea.com or ALBPMSupport@bea.com for the appropriate access privileges.

Table 1-2 BEA Documentation and Resources

Resource	Description
Technical Support	If you cannot resolve an issue using the above resources, BEA Technical Support is happy to assist. Our staff is available 24 hours a day, 7 days a week to handle all your technical support needs.
	E-mail: ALUISupport@bea.com or ALBPMSupport@bea.com
	Phone Numbers:
	USA, Canada +1 866.262.7586 or +1 415.263.1696
	EMEA +44 1494 559127
	Asia Pacific +61 2.9931.7822
	Australia/NZ +61 2.9923.4030
	Singapore +1 800.1811.202

Installation Prerequisites

Complete the following basic steps to prepare your network and host computers for the AquaLogic Pages installation:

1. Download the most up-to-date documentation from edocs.bea.com/pages/docs10.

2. Read the product release notes for information on compatibility issues, known problems, and workarounds that might affect how you proceed with your deployment. Release notes are available on edocs.bea.com/pages/docs10 and on any physical media provided for delivering the application.

3. Provision host computers and configure software dependencies for your deployment. For details, see Hardware and Software Requirements.

4. Organize the information needed for the installation process by completing the *Installation and Configuration Worksheets for AquaLogic Pages*.

Hardware and Software Requirements

Note: For the most up-to-date list of supported software for your deployment, refer to the Interoperability page in the AquaLogic User Interaction Support Center.

The following table summarizes the hardware, operating system, and software requirements for Pages.

Caution: IPv6 is not supported. You should verify that IPv6 is not enabled prior to installing Pages.

Table 2-1 Hardware and Software Requirements

Component	Requirements
Pages Host Computer	Hardware • 1.6 GHz or higher, with 2MB L2 cache • 2 GB memory • 2 GB disk space Operating System • Windows 2003 Server SP1
Database Server Host Computer	Hardware • Dual 2.0 GHz or higher, with 2 MB L2 cache • 2 GB memory or higher • Mirrored SCSI drives (either 15K or 10K RPM) Software • Microsoft SQL Server 2000 SP4 and 2005 • Oracle 9i (9.2.0.4, 9.2.0.5, 9.2.0.6, 9.2.0.7) (standard configuration only) • Oracle 10g (10.1.0.3) and 10g R2 (10.2.0.x) (standard configuration only)
BEA Product Compatibility	• AquaLogic Interaction 6.1 MP1 • AquaLogic Ensemble 1.0
Browser	• Microsoft Internet Explorer 6.0 and 7.0 on Windows XP SP2, 7.0 on Windows Vista • Mozilla Firefox 2.0

Quickstart Overview

This chapter provides brief, high-level instructions for installing AquaLogic Pages. It is intended to quickly guide experienced administrators through the installation procedure.

This chapter covers:

- "Creating the Pages Database" on page 3-2

- "Installing the Pages Components" on page 3-3

- "Verifying the Repository Connection Settings" on page 3-4

- "Starting the BEA AquaLogic Pages Service" on page 3-4

- "Registering Pages with the Portal" on page 3-4

- "Registering Pages with AquaLogic Ensemble" on page 3-4

The organization of this section maps directly to detailed instructions in Chapter 4, "Installing Pages."

Creating the Pages Database

This section describes how to set up the Pages database. It contains the following sections:

- Creating a Microsoft SQLServer 2000 Database
- "Creating a Microsoft SQLServer 2005 Database" on page 3-2
- "Creating an Oracle Database" on page 3-3

Creating a Microsoft SQLServer 2000 Database

1. Create the Pages database user with the name and password you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages*. Specify **SQL Server Authentication**.

2. Create the Pages database with the name you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages*.

3. In the Pages database user properties, grant **public** and **db_owner** database roles to the Pages database.

4. In the Pages database properties, grant all permissions to the Pages database user.

For more information on these steps, see "Creating the Pages Database in Microsoft SQL Server 2000" on page 4-2.

Creating a Microsoft SQLServer 2005 Database

1. Create the Pages database user with the name and password you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages*. Specify **SQL Server Authentication**.

2. Create the Pages database with the name you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages*.

3. Grant the Pages database user the **dbo** server role.

4. Create a new schema with the name of the Pages database user.

5. In the Pages database user properties, map the Pages database user to the schema you created.

For more information on these steps, see "Creating the Pages Database in Microsoft SQL Server 2005" on page 4-3.

Creating an Oracle Database

1. In the portal database instance, create the Pages tablespace with the name you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages* and configure the tablespace to **Automatically extend data file**.

2. Create the Pages schema user with the name and password you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages*. Grant the Pages schema user the **Resource** role and default ownership of the Pages tablespace.

For more information on these steps, see "Creating the Pages Database in Oracle" on page 4-4.

Installing the Pages Components

There are several components involved in a Pages deployment:

- **Pages Application:** the code needed to run the Pages application
- **Pages Portal Extensions:** the portal objects used to display and access the Pages application in the portal
- **Image Service Files:** the images, help, and other static files used by the Pages application

The components can be installed on different hosts, in any order; however, you should not start any of the components until all components are installed. For details on provisioning hosts for the various Pages components, see the *Deployment Guide for BEA AquaLogic User Interaction*.

Note: In a typical deployment the Pages Application is installed on a different computer than the Pages Portal Extensions and the Image Service Files.

1. Log in as the local Administrator and double-click **ALPages_v1-0.exe**. For more information, see "Launching the Pages Installer" on page 4-5.

2. Complete the installer wizard pages. The installer prompts you for specific information about your system and configuration. For detailed instructions on responding to the installer wizard pages, see "Completing the Installer Wizard Pages" on page 4-6.

3. If you are using WebLogic, after installing the Pages Portal Extensions, you must redeploy the portal deployment in the WebLogic console. To redeploy the portal:

   a. Open the WebLogic console.

   b. Update, or delete and re-add, the portal deployment for the *install_dir*\webapp\portal.ear file.

Verifying the Repository Connection Settings

Use the Configuration Manager to verify that the Repository Connection settings are correct.

1. If you were not able to navigate to the Configuration Manager by clicking the link in the installer, navigate to https://*localhost*:*12345*/cm/ui/cm.jsf (replacing *localhost* with the name of the computer that hosts the Pages application, and replacing *12345* with the port number you specified during installation).

2. Log in as Administrator with the password you specified in the installer.

3. Click **AquaLogic Pages**.

4. Verify the values.

5. If any of the values are incorrect, click the name of the associated page (**Repository** or **Application Settings**) to display the editable fields. Correct the values and click **Save**.

For more information, see "Verifying the Configuration Settings" on page 4-9.

Starting the BEA AquaLogic Pages Service

Use the Windows Services console to set the **BEA AquaLogic Pages** service to start automatically and start it. For more information, see "Starting the BEA AquaLogic Pages Service" on page 4-10.

Registering Pages with the Portal

If you are going to access Pages through AquaLogic Interaction, you need to register Pages with the portal, then modify experience definitions and custom navigation in the portal.

Use the Migration - Import Utility in the portal to register the Pages objects located in the migration package. The migration package is installed on the computer that hosts Pages, in *install_dir*\pages\1.0\serverpackages (for example, C:\bea\alui\pages\1.0\serverpackages\pagesobjects.pte). For more information, see "Registering Pages with the Portal" on page 4-13.

Registering Pages with AquaLogic Ensemble

If you are going to access Pages through AquaLogic Ensemble, register Pages as a resource in Ensemble. For more information, see "Registering Pages with AquaLogic Ensemble" on page 4-15.

Installing Pages

This chapter describes how to install AquaLogic Pages. There are several steps involved with installing Pages:

1. Ensure that you have met the prerequisites for installation. For details, see Chapter 2, "Installation Prerequisites."

2. Create the Pages database. For details, see Creating the Pages Database.

3. Install the Pages components. For details, see "Installing Pages Components" on page 4-5.

4. Configure Pages. For details, see "Verifying the Configuration Settings" on page 4-9.

5. Start Pages. For details, see "Starting the BEA AquaLogic Pages Service" on page 4-10.

6. If you are going to access Pages through AquaLogic Interaction, complete the steps in "Registering Pages with the Portal" on page 4-13. Then modify experience definitions and custom navigation in the portal. For details, see the *Administrator Guide for AquaLogic Pages*.

7. If you are going to access Pages through AquaLogic Ensemble, complete the steps in "Registering Pages with AquaLogic Ensemble" on page 4-15.

Creating the Pages Database

This section describes how to set up the Pages database. It contains the following sections:

- Creating the Pages Database in Microsoft SQL Server 2000

- "Creating the Pages Database in Microsoft SQL Server 2005" on page 4-3

- "Creating the Pages Database in Oracle" on page 4-4

Creating the Pages Database in Microsoft SQL Server 2000

To create the Pages database in Microsoft SQL Server 2000:

1. Open SQL Server Enterprise Manager.

2. Create the Pages database user:

   a. In the navigation pane, expand the objects to display subfolders of the **Security** folder.

   b. Right-click the **Logins** icon; then click **New Login**.

   c. In the **SQL Server Login Properties** dialog box, enter the user name you specified in the *Installation and Configuration Worksheets for AquaLogic Pages*.

   d. In the Authentication area, choose **SQL Server Authentication** and enter the corresponding password.

   e. Confirm the password to complete the process.

3. Create the Pages database with the name you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages*.

4. Set the security for the database:

   a. In the navigation pane, expand the objects to select the **Security** folder.

   b. In the objects pane, right-click the Pages user and select **Properties**.

   c. On the **General** tab, in the Defaults section, select the Pages database.

   d. Click the **Database Access** tab.

   e. Under **Specify which databases can be accessed by this login**, select the Pages database.

   f. In the **Database roles for *database_name* box**, select **public** and **db_owner.**

g. Click **OK**.

h. In the navigation pane, expand the objects to display the Pages database; right-click the Pages database and select **Properties**.

i. Click the **Permissions** tab and grant all permissions to the Pages database user.

5. Click **OK**.

6. Close SQL Server Enterprise Manager.

Creating the Pages Database in Microsoft SQL Server 2005

To create and set up the Pages database in Microsoft SQL Server 2005:

1. Open SQL Server Management Studio.

2. Create the Pages database user:

    a. In the navigation pane, expand the objects to display subfolders of the **Security** folder.

    b. Right-click the **Logins** icon; then click **New Login**.

    c. In the **SQL Server Login Properties** dialog box, enter the user name you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages*.

    d. In the Authentication area, choose **SQL Server Authentication** and enter the corresponding password.

    e. Confirm the password to complete the process.

3. Create the Pages database with the name you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages*.

4. Grant the Pages database user the **dbo** server role.

5. Click **OK**.

6. Set the security for the database:

    a. In the Object Explorer, expand the Pages database and right-click the **Security** folder.

    b. Select **New Schema**.

c. In the **Schema Name** field, type the name of the Pages database user.

   Note: The schema name must exactly match the name of the Pages database user.

d. Click the **Search** button and browse for the name of the Pages database user.

e. Click **OK**.

f. In the Object Explorer, expand the **Users** folder, which is under the Security folder.

g. Right-click the Pages database user and select **Properties**.

h. In the Database User dialog box, on the User Mapping page, click the **...** button to the right of the Default Schema name to launch the Select Schema dialog box.

i. Browse for the schema that you created; this name should match the Pages database user name.

j. Click **OK** to close the Select Schema dialog box.

k. Click **OK** to close the Database User dialog box.

7. Close SQL Server Management Studio.

Creating the Pages Database in Oracle

To create and set up the Pages tablespace in Oracle:

1. Create the Pages tablespace:

   a. Create a new tablespace for Pages in the portal database instance.

   b. Create the Pages tablespace with the name you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages*.

   c. Configure the newly created Pages tablespace to **Automatically extend data file**.

2. Create the Pages schema user:

   a. Create the Pages schema user with the name you provisioned when you completed the *Installation and Configuration Worksheets for AquaLogic Pages*.

   b. Grant the Pages schema user default ownership of the newly created Pages tablespace.

   c. Grant the Pages schema user the **Resource** role.

Installing Pages Components

There are several components involved in a Pages deployment:

- **Pages Application:** the code needed to run the Pages application. Install this component on the computer that will host Pages.

- **Pages Portal Extensions:** the portal objects used to display and access the Pages application in the portal. Install this component on the computer that hosts the portal.

- **Image Service Files:** the images, help, and other static files used by the Pages application. Install this component on the computer that hosts the image service files.

The components can be installed on different hosts, in any order; however, you should not start any of the components until all components are installed. For details on provisioning hosts for the various Pages components, see the *Deployment Guide for BEA AquaLogic User Interaction.*

Note: In a typical deployment the Pages Application is installed on a different computer than the Pages Portal Extensions and the Image Service Files.

Launching the Pages Installer

To launch the Pages installer:

1. Log into the Windows host as the local administrator.

2. Copy the **ALPages_v1-0.exe** installer to a temporary location.

3. Close all unnecessary windows and applications.

4. Double-click **ALPages_v1-0.exe** to launch the installer.

Complete the installation wizard panels as described in "Completing the Installer Wizard Pages" on page 4-6, and according to the settings you planned when you completed the configuration worksheets.

Completing the Installer Wizard Pages

The following table describes the Pages installer wizard pages. The installer wizard pages that appear vary according to the selections you choose.

Note: If the installer setting does not apply to the Pages components you are installing, the installer does not display the wizard page.

Table 4-1 Pages Installer Wizard Pages

Wizard Page	Description
Introduction	This page provides a brief description of the installer and describes how to run the installer in silent mode. Click **Next**.
License Agreement	Read and accept the license agreement, then click **Next**.
Choose Install Set	In the Install Set drop-down list, select either **Complete** or **Custom**. If you select **Complete**, the full set of Pages components is installed. If you select **Custom**, you can choose from the following individual components to install according to your deployment plan: • **Pages Application**: The core set of Web UI components that comprise the Pages application. • **Pages Portal Extensions**: The files necessary to enable communication between the portal and Pages. If your AquaLogic Interaction deployment is hosted on a non-Windows platform, do not install the Pages Portal Extensions using the Pages installer. Instead follow the instructions in "Installing Pages Portal Extensions on UNIX or Linux" on page 4-10. • **Image Service Files**: The necessary images, styles, user interface controls, and online help for Pages. Install these files on the same computer on which the portal's Image Service is installed. If your Image Service is hosted on a non-Windows platform, do not install the Pages Image Service Files using the Pages installer. Instead follow the instructions in "Installing Image Service Files on UNIX or Linux" on page 4-12. After you have chosen the components you want to install, click **Next**. **Note:** In a typical deployment the Pages Application will be installed on a different computer than the Pages Portal Extensions and the Image Service Files.

Table 4-1 Pages Installer Wizard Pages

Wizard Page	Description
License Directory	Specify where you want to store the evaluation version of the license.bea file. This location must be in BEA_HOME. The default location of BEA_HOME is C:\bea. For more information on licensing, see Appendix A, "Licensing."
Existing License Update	**(Only appears if you have an existing license)** Choose to either merge the evaluation license with the existing license, replace the existing license with the evaluation license, or leave the existing license alone. If you already have a production license for Pages, choose **Leave Alone**. For more information on licensing, see Appendix A, "Licensing."
Configuration Manager - Port and Password	Specify the port and password you want to use for the Configuration Manager (a web tool that allows you to configure properties for Pages and other ALUI products). The default port is 12345. If you have previously installed the Configuration Manager on this computer, you can update the password and port if necessary by selecting **Update password and port**.
Installation Location	Specify where you want to install the software. The default installation folder is C:\bea\alui. After you have specified the location, click **Next**.
Portal Path	Specify where the portal files are installed. The default portal installation folder is C:\bea\alui\ptportal\6.1\. After you have specified the location, click **Next**.
Installation Location for Image Service Files	Specify where the Image Service files are installed. The default Image Service installation folder is C:\bea\alui\ptimages. **Note:** The security for the Image Service directory must be appropriately configured to allow for installation of the Image Service files. After you have specified the location, click **Next**.
Pre-Installation Summary	Confirm the installer settings (install folder, components to install, and space needed for install), and click **Install** to start the installation.

Table 4-1 Pages Installer Wizard Pages

Wizard Page	Description
Launch Configuration Manager	Click the link to launch the Configuration Manager and to configure settings for Pages. Log in as Administrator with the password you entered in the installer. For information on the Configuration Manager settings, refer to Verifying the Configuration Settings.
	After completing the Configuration Manager, save your settings, close Configuration Manager, and click **Next**.
Application Settings Confirmation	Specify whether your application settings are correct, and click **Next**:
	• If you verified that all the settings in the Configuration Manager were correct, select **Yes**.
	• If you were not able to verify all the settings, but do not want to launch Configuration Manager again now to correct them, select **No, configure later**.
Install Complete	When the installer has finished, this page alerts you as to whether the installer succeeded. Click **Done**.

Redeploying the Portal Application

If you are using WebLogic, after installing the Pages Portal Extensions, you must redeploy the portal in the WebLogic console.

To redeploy the portal:

1. Open the WebLogic console.

2. Update, or delete and re-add, the portal deployment for *install_dir*\webapp\portal.ear file.

Verifying the Configuration Settings

Use the Configuration Manager to configure Pages database and connectivity settings.

1. If you were not able to navigate to the Configuration Manager by clicking the link in the installer, navigate to https://*localhost*:*12345*/cm/ui/cm.jsf (replacing *localhost* with the name of the computer that hosts the Pages application, and replacing *12345* with the port number you specified during installation).

2. Log in as Administrator with the password you specified during installation.

3. Click **Pages**.

4. Verify the following values:

    a. **Vendor**: The database vendor used for the AquaLogic Pages database.

    b. **Host**: The name of the computer that hosts the Pages database.

    c. **Port**: The port number on which the Pages database services requests (the default for SQL Server is 1433, the default for Oracle is 1521).

    d. **Repository Name**: The name of the Pages database (for Oracle databases, this is the SID).

    e. **User Name**: The name of the Pages database user. (If you have to correct the user name, you should also correct the associated password.)

    f. **HTTP Enabled**: Select if non-secured HTTP should be used for the application's communication.

    g. **HTTP Port**: The port number the application should listen to for non-secured requests.

    h. **HTTPS Enabled**: Select if secured HTTP over SSL should be used for the application's communication.

    i. **HTTPS Port**: The port number the application should listen to for secured requests.

    j. **AJP/1.3 Enabled**: Select if AJP/1.3 should be used for the application's web protocol.

    k. **AJP/1.3 Port**: The port number the application should listen to for AJP/1.3 requests.

5. If any of the values are incorrect, click the name of the associated page (**Repository** or **Pages Application Settings**) to display the editable fields. Correct the values and click **Save**.

Note: Embedded online help is available in the Configuration Manager's user interface.

Starting the BEA AquaLogic Pages Service

Note: The AquaLogic Interaction Search and API services or daemons must be started before you start the BEA AquaLogic Pages service.

To start the BEA AquaLogic Pages service:

1. Open the Windows Services console. Click **Start** →**Settings** →**Control Panel** → **Administrative Tools** →**Services**.

2. In the list of services, double-click **BEA AquaLogic Pages**.

3. In the **Startup type** drop-down list, select **Automatic**.

4. Click **Start**.

5. Click **OK** to exit the properties dialog box.

6. Close the Services console.

Installing Pages Portal Extensions on UNIX or Linux

The Pages Portal Extensions component must be manually installed when AquaLogic Interaction is hosted on a non-Windows platform. When AquaLogic Interaction is hosted on a Windows platform, use the Pages installer to install the Pages Portal Extensions component, as described in "Installing Pages Components" on page 4-5.

To install the Pages Portal Extension component to a UNIX or Linux platform:

1. Stop your application server.

2. Copy taglibPages.jar to the following portal directory: *install_dir*/ptportal/*version*/lib/java. For example, execute the following command:

   ```
   cp taglibPages.jar opt/bea/alui/ptportal/6.1/lib/java
   ```

3. Navigate to the directory that contains the portal.war and portal.ear files: *install_dir*/ptportal/*version*/webapp. For example, execute the following command:

   ```
   cd /opt/bea/alui/ptportal/6.1/webapp
   ```

4. Update the portal.war with the taglibPages.jar file by executing the following commands:

    a. Create a tmp directory by executing the following command:

        ```
        mkdir tmp
        ```

    b. Copy the portal.war to the tmp directory by executing the following command:

        ```
        cp portal.war tmp
        ```

    c. Extract the portal.war file by executing the following command:

        ```
        jar -xvf portal.war
        ```

    d. Copy the taglibPages.jar from *install_dir*/ptportal/*version*/lib/java to the extracted portal.war in *install_dir*/ptportal/*version*/webapp. For example, execute the following command:

        ```
        cp /opt/bea/alui/ptportal/6.1/lib/java/taglibPages.jar
        /opt/bea/alui/ptportal/6.1/webapp/tmp/WEB-INF/lib
        ```

    e. Repackage portal.war with new .jar by executing the following command:

        ```
        jar -cvf portal.war *
        ```

    f. Copy new portal.war file to new location by executing the following command:

        ```
        cp portal.war ../tmp
        ```

5. Verify the taglibPages.jar was added to the portal.war by executing the following command:

    ```
    jar tf portal.war
    ```

6. Update the portal.ear file with the new portal.war by executing the following command:

    ```
    jar uf portal.ear portal.war
    ```

7. Navigate to the directory that contains the CustomTags.xml file: *install_dir*/settings/portal. For example, execute the following command:

    ```
    cd /opt/bea/alui/settings/portal
    ```

8. Open the CustomTags.xml file in a text editor and add the following line to the <AppLibFiles> node section:

```
<libfile name="taglibPages"/>
```

For example:

```
<?xml version="1.0" encoding="UTF-8"?>

<AppLibFiles>

    <libfile name="testlibApp" />

    <libfile name="taglibPages"/>

</AppLibFiles>
```

9. Save the changes you made to CustomTags.xml.

10. Copy the pagesconfig.xml file to the settings directory: *install_dir*/settings. For example, execute the following command:

```
cp pagesconfig.xml /opt/bea/alui/settings
```

11. Restart your application server.

Installing Image Service Files on UNIX or Linux

The Image Service Files component must be manually installed when the Image Service is hosted on a non-Windows platform. When the Image Service is hosted on a Windows platform, use the Pages installer to install the Pages Image Service Files component, as described in "Installing Pages Components" on page 4-5.

To install the Pages Image Service Files component to a UNIX or Linux platform:

1. Copy the imagesvr.tar file into your imageserver directory: *install_dir*/ptimages. For example, execute the following command:

```
cp imagesvr.tar /opt/bea/alui/ptimages
```

2. Navigate to this directory. For example, execute the following command:

```
cd /opt/bea/alui/ptimages
```

3. Extract the files by executing the following command:

```
tar xvf imagesvr.tar
```

4. Verify the following directories were created:

   – ptimages/imageserver/plumtree/pages/private/components

   – ptimages/imageserver/plumtree/pages/private/css

   – ptimages/imageserver/plumtree/pages/private/help

   – ptimages/imageserver/plumtree/pages/private/img

   – ptimages/imageserver/plumtree/pages/private/js

   – ptimages/imageserver/plumtree/pages/private/layouts

   – ptimages/imageserver/plumtree/pages/private/organizer

   – ptimages/imageserver/plumtree/pages/private/pagecomponentsselector

   – ptimages/imageserver/plumtree/pages/private/richtext

   – ptimages/imageserver/plumtree/pages/private/shells

   – ptimages/imageserver/plumtree/pages/private/webapp

5. Restart the web server hosting your Image Service.

Registering Pages with the Portal

If you are going to access Pages through AquaLogic Interaction, you must register Pages with the portal. To register the Pages objects with the portal perform the following steps:

1. Move the migration package (pagesobjects.pte) from the computer that hosts Pages to the computer that hosts the portal. The migration package is located in *install_dir*\pages\1.0\serverpackages (for example, C:\bea\alui\pages\1.0\serverpackages\pagesobjects.pte).

2. Log in to the portal as a portal administrator.

3. Click **Administration**.

4. From the Select Utility drop-down list select **Migration - Import**.

5. Browse to select the location of the migration package.

6. Click **Load Package**.

7. Click **Finish**.

The following portal objects are created when you import the migration package:

Table 4-2 Portal Objects Included in Pages Migration Package

Object	Description
Pages Objects	This folder stores all the objects included in the migration package.
DataSpace Creators	This group provides members with the ability to create DataSpaces.
LiveSpace Creators	This group provides members with the ability to create LiveSpaces.
Pages Administrators	This group provides members with the ability to create and manage any Pages object.
Pages Users	Users in this group are granted the Guest role (read access) to newly created LiveSpaces and DataSpaces by default.
Pages Base URL Portlet	This portlet is only for internal code purposes. It is used to gateway the Pages application.
Pages Launcher Portlet	This portlet provides access to the Pages user interface. It includes a link to the Dashboard.
Pages Components Selector	This portlet template enables you to create a portlet from an existing page component, to display content form a page component in a portal page.
Pages Server	This remote server points to the Pages installation.
Pages Base URL Web Service	This web service is used to gateway content in Pages.
Pages Dashboard Web Service	This web service is used to display the Dashboard.
Pages DataSpaces Web Service	This web service provides the list of DataSpaces to the DataSpaces menu.
Pages Launcher Web Service	This is the web service for the Pages Launcher Portlet.
Pages LiveSpaces Web Service	This web service provides the list of LiveSpaces to the LiveSpaces menu.
Pages Components Service	This web service is used to gateway components displayed in portlets.

Next you should integrate Pages into the portal navigation and set up security for Pages. For details, see the *Administrator Guide for AquaLogic Pages*.

Registering Pages with AquaLogic Ensemble

You can configure Pages to be accessed through the AquaLogic Ensemble proxy. This provides you more control over the appearance of Pages URLs and allows you to take advantage of Ensemble's integration with AquaLogic Interaction Analytics.

To register Pages with Ensemble, register Pages as a resource. For instructions on registering resources in Ensemble, see the *Administrator Guide for AquaLogic Ensemble*.

- For the Internal URL prefix, use `http://Pages_host:Pages_port/` (for example, http://pages.company.com:11990/).

- For the External URL prefix, use `http://Ensemble_host:Ensemble_port/identifier/` (for example, http://ensemble.company.com:8080/pagesproxy/). The *identifier* can be any string you want to use to identify the resource. Users will access Pages by navigating to http://*Ensemble_host*:*Ensemble_port*/*identifier*/pages/ (for example, http://ensemble.company.com:8080/pagesproxy/pages/).

- On CSP tab, click **Send login token**.

Upgrading

To upgrade Pages 1.0 to Pages 1.0 MP1, run the Pages 1.0 MP1 installer on each server hosting Pages components. Install only the components that were installed for Pages 1.0. For details on running the installer, see "Installing Pages Components" on page 4-5.

Licensing

This appendix describes how licensing is configured for Pages. It contains the following sections:

- Licensing Overview

- Installation Behavior

- Upgrading an Existing License

- Merging License Keys

Licensing Overview

In order to function, Pages requires a valid license key on the computer on which Pages is installed. The license file containing this key must be located in the BEA_HOME directory. By default, BEA_HOME is C:\bea.

Depending on your use case, a different type of license is used. Each license type is defined by the license attributes that govern the behavior of the licensed installation. The following table lists the license types, the most important attribute for each type, and how the license should be obtained.

Table A-1 Use Cases and Corresponding License Types

License Type	Key Attribute	Obtainment Method
Standard Evaluation	Session Limit: Standard Evaluation licenses will allow up to 5 concurrent user sessions.	Standard Evaluation licenses are automatically generated by the Pages installer.
Extended Evaluation	Expiration: Extended Evaluation licenses expire on a specific date.	Extended Evaluation licenses are obtained by contacting a BEA sales representative.
Production	IP: Product licenses are only valid on a specific IP or within a specific IP range.	Existing customers can obtain Product licenses through elicense.bea.com or licensing@bea.com.

Installation Behavior

By default, the installer attempts to install a Standard Evaluation license file containing a Pages key in the BEA_HOME directory.

If a license.bea file exists in the specified location, the installer asks if you want to merge the Standard Evaluation license with the existing license, overwrite the existing license with the Standard Evaluation license, or leave the existing license alone. If you elect to overwrite the existing license, the installer places a backup of the existing license into the BEA_HOME directory.

If you are installing Pages on a machine with another BEA product on it (for example, BEA WebLogic Server, AquaLogic Analytics, or AquaLogic Interaction Collaboration), choose to merge the license files when prompted by the installer.

Upgrading an Existing License

If you are upgrading an existing license to an Extended Evaluation license or a Production license, you can either combine the license keys or replace the existing license file with the new license file.

If you are upgrading a license on a machine with another BEA product on it (for example, BEA WebLogic Server, AquaLogic Analytics, or AquaLogic Interaction Collaboration), you must merge the license keys for both products into a single file. For more information on merging license keys, see "Merging License Keys."

Merging License Keys

To manually combine two or more license keys into the license.bea file, either use a text editor or the update license tool—BEA_HOME\UpdateLicense.cmd.

The path to java.exe must be in the PATH variable. Use the following command to execute the tool:

```
UpdateLicense.cmd new_license_file
```

Replace *new_license_file* with the name of the file containing the license key you wish to add to license.bea.

Licensing

Uninstalling Pages

This appendix describes how to uninstall the components of your Pages deployment.

To uninstall the Pages application and all its functionality, perform the following steps:

1. Remove the Pages portal objects, refer to "Removing the Pages Portal Objects" on page B-2.

2. Uninstall the Pages application, refer to "Uninstalling the Pages Application" on page B-2.

3. Delete the Pages database, refer to "Deleting the Pages Database" on page B-2.

4. Delete the Pages image service files, refer to "Deleting the Pages Image Service Files" on page B-2.

If the computer that hosts the Pages application does not host any other ALUI components, you should also perform the following additional steps:

- Uninstall the Logging Utilities, refer to "Uninstalling the Logging Utilities" on page B-3.

- Uninstall the Configuration Manager, refer to "Uninstalling the Configuration Manager" on page B-3.

- Delete the remaining Pages files, refer to "Deleting Remaining Pages Files" on page B-4.

Removing the Pages Portal Objects

To remove the Pages objects from the portal, perform the following steps in the portal:

1. Log in to the portal as a portal administrator.

2. Click **Administration**.

3. Delete the **Pages** folder.

4. In the Delete Objects dialog box, click **OK**.

Uninstalling the Pages Application

To uninstall the Pages application, perform the following steps on the computer that hosts the Pages application:

1. Launch the uninstaller using one of the following methods:

   – Use the Windows Add/Remove Programs utility to remove **AquaLogic Pages**.

   – Run **Uninstall AquaLogic Pages.exe**, located in *install_dir*\uninstall\pages\1.0\ (for example, C:\bea\alui\uninstall\pages\1.0\Uninstall AquaLogic Pages.exe).

2. On the Uninstall AquaLogic Pages page, click **Uninstall**.

3. On the Uninstall Complete page, review any items that could not be removed, and click **Done**.

Note: You cannot uninstall the Pages Portal Extensions.

Deleting the Pages Database

You might want to delete the Pages database. Refer to your database vendor's documentation for instructions.

Deleting the Pages Image Service Files

To remove the Pages image service files (such as images, styles, user interface controls, and online help for Pages) from the computer that hosts the image service, delete the pages directory (for example, C:\bea\alui\ptimages\imageserver\plumtree\pages).

Uninstalling the Logging Utilities

To uninstall the Logging Utilities, perform the following steps on the computer that hosted Pages:

1. Go to Add or Remove Programs (click **Start** →**Settings** →**Control Panel** →**Add or Remove Programs**), select **Logging Utilities**, and click **Change/Remove**.

2. On the Uninstall Logging Utilities page, click **Uninstall**.

3. On the Uninstall Complete page, review any items that could not be removed, and click **Done**.

4. Close the Add or Remove Programs dialog box.

Uninstalling the Configuration Manager

To uninstall the Configuration Manager, perform the following steps on the computer that hosted Pages:

1. Open a command prompt and change directory to *install_dir*\configurator\1.0\bin. For example, execute the following command:

   ```
   cd C:\bea\alui\configurator\1.0\bin
   ```

2. Execute the following command:

   ```
   C:\bea\alui\configurator\1.0\bin>configurator.bat stop
   ```

   You should receive the following result:

   ```
   REALPATH = C:\bea\alui\configurator\1.0\bin\

   wrapper  | Stopping the BEA AquaLogic Configuration Manager service...

   wrapper  | BEA AquaLogic Configuration Manager stopped.
   ```

3. Execute the following command:

   ```
   C:\bea\alui\configurator\1.0\bin>configurator.bat remove
   ```

   You should receive the following result:

   ```
   REALPATH = C:\bea\alui\configurator\1.0\bin\

   wrapper  | BEA AquaLogic Configuration Manager removed.
   ```

4. Close the command prompt.

Deleting Remaining Pages Files

To remove any remaining Pages files (such as customized files, uninstallers, or install logs) from the computer that hosted the Pages application, delete the entire BEA directory (for example, C:\bea\alui).

Troubleshooting

This appendix provides information on troubleshooting the installation and configuration process. It includes the following topics:

- Overview of Logs
- Troubleshooting Common Installation Problems

Overview of Logs

This section provides descriptions and locations of logs that you can use to troubleshoot the installation of Pages and Pages in runtime.

Installation Log

The following log file provides activity and error details for the installation of Pages: *install_dir*\installlogs\AquaLogic_Pages_InstallLog.log.

Runtime Log

The following log file provides activity and error details for the BEA AquaLogic Pages service: *install_dir*\pages\1.0\logs\wrapper.log.

Troubleshooting Common Installation Problems

The table in this section describes common installation and configuration problems and provides solutions to them.

Table C-1 Common Installation and Configuration Problems and Solutions

Problem	Solution
The BEA AquaLogic Pages service is started, but I get an error when navigating to Pages from the portal.	1. Look at wrapper.log for any errors that occur when accessing Pages from the portal. 2. If you do not see any errors in wrapper.log, confirm that the BEA Automation and Search services have been started; Pages relies on those services to communicate with the portal. 3. If the services are running, log in to the portal as an administrator, click **Administration**, open the **Pages Objects** folder, display the Remote Servers, click **Pages Server**, confirm that the port number in the **Base URL** is correct (the default port is 11990). 4. If the port number is correct, copy the base URL into a browser address bar, then type `/pages/` (for example http://*pages_host*:11990/pages/) and press ENTER. This should enable you to access Pages, bypassing the portal.
When I open the Pages application, I do not see any navigation.	Verify that the experience definition displayed for your user uses some type of horizontal navigation. For more information on navigation in Pages, see the *Administrator Guide for AquaLogic Pages*.
Security and Directory Service is consuming too much CPU.	Reduce the number of calls made to the Security and Directory Service by increasing the expiration time of login tokens. To do so, change the setting for the **wsserver.DefaultSessionDurationInMinutes** node in serverconfig.xml as desired.

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