

# HP Quality Center Dashboard

Software Version: 9.20

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## Installation Guide

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- Software version number, which indicates the software version
- Document release date, which changes each time the document is updated
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# Welcome to This Guide

Welcome to HP Quality Center Dashboard, the HP platform that enables IT managers to track application readiness in real-time and manage project risk. Dashboard is a Web-enabled tool that presents graphical displays of your projects' readiness status according to KPIs (key performance indicators).

**This chapter includes:**

- ▶ How This Guide is Organized on page 8
- ▶ Who Should Read This Guide on page 8
- ▶ Dashboard Printed Documentation on page 9
- ▶ Dashboard Online Documentation on page 9
- ▶ Typographical Conventions on page 10

## How This Guide is Organized

This guide describes the installation process for Dashboard. It contains the following chapters:

### Chapter 1 Before You Install

Specifies the server and client configurations for installing Dashboard and provides an explanation of how to set up Quality Center for use with Dashboard.

### Chapter 2 Setting Up Dashboard

Describes how to install Dashboard.

### Chapter 3 Deploying the Dashboard Application on a WebLogic Server

Describes how to deploy Dashboard on a WebLogic application Server.

### Chapter 4 Deploying the Dashboard Application on a WebSphere Server

Describes how to deploy Dashboard on a WebSphere application server, and how to specify configuration values for deploying Dashboard from the WebSphere Administrative Console.

### Chapter 5 Uninstalling Dashboard

Describes how to uninstall Dashboard from your server machine.

## Who Should Read This Guide

This guide is intended for the following users of Dashboard:

- System administrators
- Database administrators

This document assumes that you are familiar with HP Quality Center and are highly skilled in enterprise system and database administration.



## Dashboard Printed Documentation

Dashboard comes with the following printed documentation:

**HP Quality Center Dashboard User's Guide** explains how to use HP Quality Center Dashboard to view graphical displays of your projects' readiness status, in real time. It also provides a description of each portlet, and an explanation of how to personalize the portlets according to your own personal preferences.

**HP Quality Center Dashboard Administrator's Guide** explains how to create, change, and manage KPIs using the Quality Center Connector. It also explains how to manage users and groups, and explains how to create and manage portlets and preconfigured pages using Dashboard.

**HP Quality Center Dashboard Installation Guide** explains how to install Dashboard, and describes the server and client database software needed to store the Dashboard application data.

## Dashboard Online Documentation

Dashboard includes the following online documentation:

**Printer-Friendly Documentation.** Click the **User's Guide** and **Administrator's Guide** links in the Dashboard menu bar to open the books in PDF format.

**Dashboard Online Help.** This includes descriptions of each portlet. To view help for a portlet, click the portlet's help icon.

## Typographical Conventions

This guide uses the following typographical conventions:

<b>UI Elements and Function Names</b>	This style indicates the names of interface elements on which you perform actions, file names or paths, and other items that require emphasis. For example, “Click the <b>Save</b> button.” It also indicates method or function names. For example, “The <b>wait_window</b> statement has the following parameters:”
<i>Arguments</i>	This style indicates method, property, or function arguments and book titles. For example, “Refer to the <i>HP User’s Guide</i> .”
<b>&lt;Replace Value&gt;</b>	Angle brackets enclose a part of a file path or URL address that should be replaced with an actual value. For example, <b>&lt;MyProduct installation folder&gt;\bin</b> .
Example	This style is used for examples and text that is to be typed literally. For example, “Type Hello in the edit box.”
CTRL+C	This style indicates keyboard keys. For example, “Press ENTER.”
[ ]	Square brackets enclose optional arguments.
{ }	Curly brackets indicate that one of the enclosed values must be assigned to the current argument.
...	In a line of syntax, an ellipsis indicates that more items of the same format may be included. In a programming example, an ellipsis is used to indicate lines of a program that were intentionally omitted.
	A vertical bar indicates that one of the options separated by the bar should be selected.

# 1

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## Before You Install

Before you install Dashboard, review the following pre-installation procedures.

**This chapter includes:**

- ▶ System Configurations on page 11
- ▶ Dashboard and Quality Center on page 14

### System Configurations

This section describes the server and client configurations required for running Dashboard.

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**Important:** Refer to <http://www.mercury.com/us/products/quality-center/Dashboard/requirements.html> for the most updated Dashboard system configurations.

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## Server System Configurations

This section describes the server system configurations for installing Dashboard on Windows, Linux, Solaris, and AIX.

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**Note:** The application server and Web server can reside on separate machines.

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<b>CPU</b>	<p><b>Windows:</b> Pentium IV or equivalent x86 compatible processor</p> <p><b>Linux:</b> Pentium IV or equivalent x86 compatible processors</p> <p><b>Solaris:</b> UltraSPARC-III+ / 900 MHz</p> <p><b>AIX:</b> Version 5.3</p>
<b>Memory (RAM)</b>	1 GB minimum (additional memory may be required if you increase the default JBoss heap memory size)
<b>Free Disk Space</b>	3 GB minimum
<b>Database</b>	<ul style="list-style-type: none"> <li>▶ Oracle 9.2.0.6 Standard/Enterprise Edition</li> <li>▶ Oracle 10.0g Release 2 Standard/Enterprise Edition</li> <li>▶ Microsoft SQL Server 2000 Standard/Enterprise Edition with Service Pack 4</li> <li>▶ Microsoft SQL Server 2005 Standard/Enterprise Edition with Service Pack 1</li> </ul>
<b>Web Server</b>	<ul style="list-style-type: none"> <li>▶ IIS 6.0 (Windows with JBoss application server only)</li> <li>▶ JBoss, WebLogic, or WebSphere HTTP server included with the application server</li> <li>▶ Apache 2.0.54</li> </ul>

Operating System	Application Server	Java Virtual Machine
<b>Windows 2000 Server with Service Pack 4</b> or <b>Windows 2003 Server with Service Pack 1 Standard/Enterprise Edition</b>	JBoss 4.0.2 (included with Quality Center)	JVM 1.5
	WebLogic 8.1.5	<ul style="list-style-type: none"> <li>▶ BEA JRockit 1.4.2_08-b03</li> <li>▶ Sun SDK 1.4.2_08-b03</li> </ul>
	WebSphere 5.1.1.8	IBM Java 1.4.2
	WebSphere 6.1	IBM Java 1.5.0
<b>Red Hat Enterprise Linux AS/ES, version 3</b> or <b>Red Hat Enterprise Linux AS/ES, version 4</b> <b>Note:</b> Dashboard supports Red Hat Enterprise Linux on Intel-based systems only.	JBoss 4.0.2 (included with Quality Center)	JVM 1.5
	WebLogic 8.1.5	<ul style="list-style-type: none"> <li>▶ BEA JRockit 1.4.2_04-8130</li> <li>▶ Sun SDK 1.4.2_04</li> </ul>
	WebSphere 5.1.1.8	IBM Java 1.4.2.04
	WebSphere 6.1	IBM Java 1.4.2.05
<b>SUSE Linux Enterprise Server 10</b>	JBoss 4.0.2 (included with Quality Center)	JVM 1.5
	WebSphere 5.1.1.8	IBM Java 1.4.2.04
	WebSphere 6.1	IBM Java 1.4.2.05
<b>Solaris 9 OE</b> or <b>Solaris 10 OE</b> <b>Note:</b> Dashboard supports Solaris on SPARC-based systems only.	JBoss 4.0.2 (included with Quality Center)	JVM 1.5
	WebLogic 8.1.5	<ul style="list-style-type: none"> <li>▶ BEA JRockit 1.4.2_04-8130</li> <li>▶ Sun SDK 1.4.2_04</li> </ul>
	WebSphere 5.1.1.8	IBM Java 1.4.2.04
	WebSphere 6.1	IBM Java 1.4.2.05
<b>AIX 5.3</b>	WebSphere 5.1.1.8	IBM Java 1.4.2.04
	WebSphere 6.1	IBM Java 1.4.2.05

## Client System Configurations

This section describes the client system configurations for Dashboard.

<b>CPU</b>	Pentium III (or higher) or equivalent x86 compatible processor
<b>Memory (RAM)</b>	512 MB minimum
<b>Free Disk Space</b>	300 MB minimum
<b>Operating System</b>	<ul style="list-style-type: none"> <li>▶ Windows 2000 Server/Professional with Service Pack 4</li> <li>▶ Windows XP 32-bit Professional/Home Edition with Service Pack 2.</li> </ul>
<b>Display</b>	<ul style="list-style-type: none"> <li>▶ Color palette setting of 256 colors or higher (65536 colors or higher recommended).</li> <li>▶ Resolution 1024x768 minimum.</li> </ul>
<b>Browser</b>	<ul style="list-style-type: none"> <li>▶ Microsoft Internet Explorer 6.0 with Service Pack 1 (not supported for Windows Vista)</li> <li>▶ Microsoft Internet Explorer 7.0</li> </ul>

## Dashboard and Quality Center

Dashboard 9.2 works only with Quality Center 9.2.

If you are installing Dashboard on the same machine as a Quality Center server deployed by JBoss, you must install a Quality Center patch for Dashboard before installing Dashboard.

### To install the Quality Center patch for Dashboard:

- 1** Locate the patch file on the HP Quality Center Software 9.2 DVD in the `\QualityCenterDashboard\Installation\<<platform>\QC_Patch` directory.
- 2** Run this installation file on the Quality Center server.

## **Load Balancer Configuration for Deployment on a Cluster**

If multiple instances of Dashboard are deployed on a cluster and are accessed through a load balancer, you need to configure the load balancer to handle the Dashboard traffic.

For information on configuring the load balancer, refer to the TestDirector for Quality Center Knowledge Base (<http://support.mercury.com>) and search for Problem ID **44211**.





# 2

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## Setting Up Dashboard

This chapter describes how to install Dashboard on a Windows, Linux, Solaris, or AIX operating system.

**This chapter includes:**

- ▶ Installing Dashboard on page 17
- ▶ Defining Temporary Internet Settings on page 47

### Installing Dashboard

Before installing Dashboard, make sure to complete the pre-installation instructions regarding Quality Center as described in Chapter 1, “Before You Install.”

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**Note:** For general guidelines on how to deploy Dashboard, refer to the Mercury Support Knowledge Base (<http://support.mercury.com/cgi-bin/portal/CSO/kbBrowse.jsp>), select **TestDirector for Quality Center** and search for Article Number 46295.

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**To install Dashboard:**

- 1 Insert the HP Quality Center Dashboard installation DVD into the DVD drive and run the file appropriate for your operating system in the `\QualityCenterDashboard\Installation\<platform>` folder of the DVD.

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**Note:** The installation program may take some time to begin after the InstallShield Wizard window closes.

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Operating System	Executable
Windows	setup.exe
Linux	setupLinux.bin
Solaris	./setupSolaris.bin -console -W platformCheck.active=false
AIX	setupAix.bin

The Welcome to the HP Dashboard Installation screen opens.

- 2 Click **Next**.

If you have a previous installation of Dashboard installed on your computer the installation procedure displays an error message.

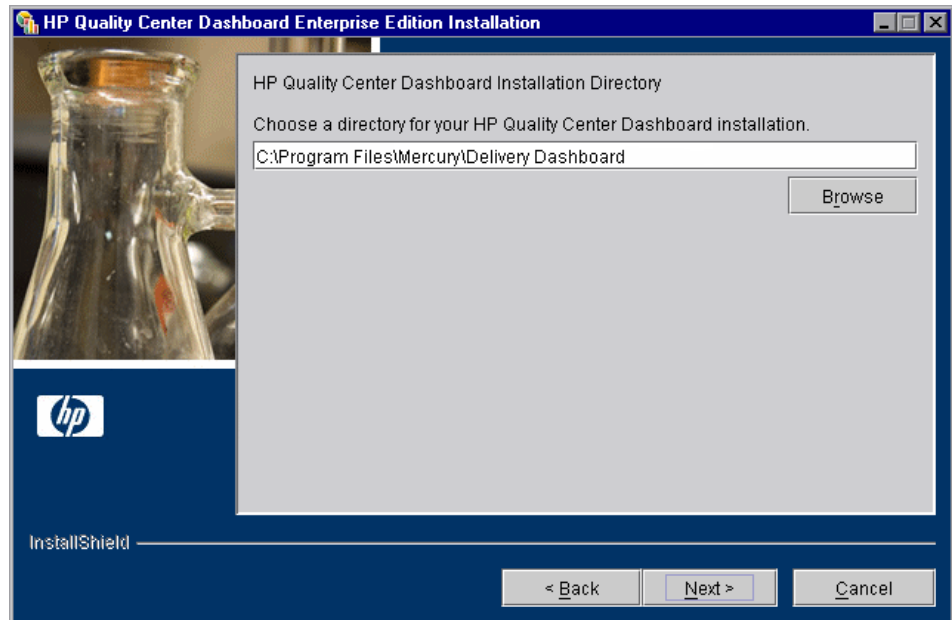
If you are installing Dashboard on the same machine as a Quality Center server running with JBoss, and you have not installed the Quality Center patch on the machine, the installation procedure displays a message instructing you to install the Quality Center patch. In this case, exit the installation, install the Quality Center patch, and restart the Dashboard installation. For details on the Quality Center patch, see “Dashboard and Quality Center” on page 14.

The License Agreement screen opens.

- 3 Read the license agreement. To accept the terms of the license agreement, select **I accept the terms of the license agreement**.
- 4 Click **Next**.

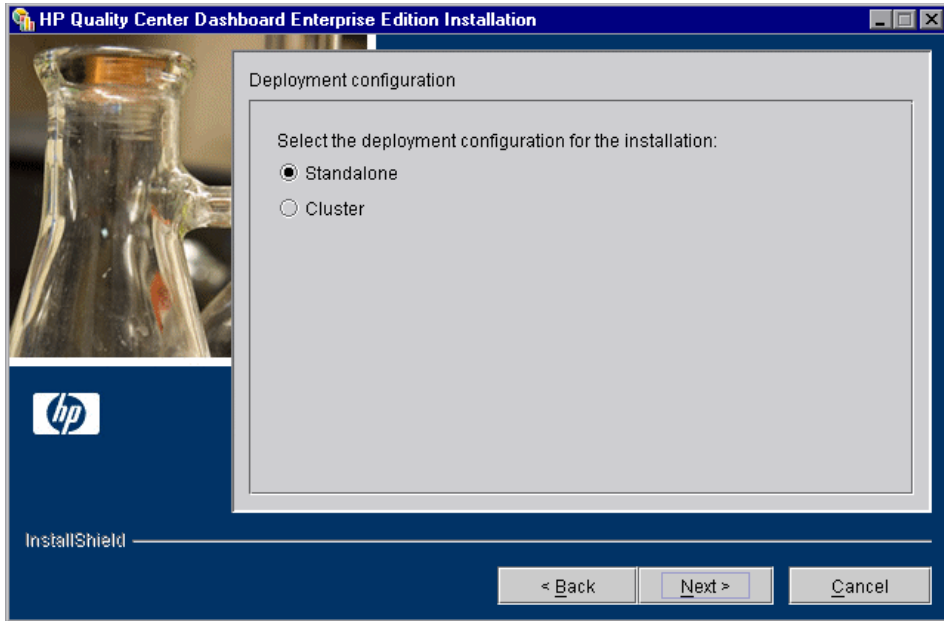
**Note:** If Quality Center is installed on the machine on which you are installing Dashboard, the installation procedure informs you that Dashboard will share the application server instance used by Quality Center. To continue the installation process, select the **Share Quality Centers application server** check box and click **Next**.

The HP Quality Center Dashboard Installation Directory screen opens.



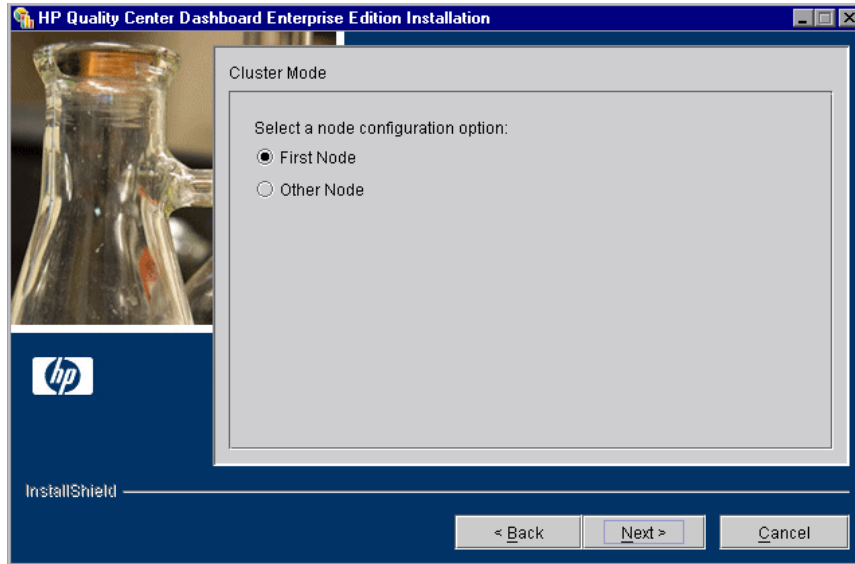
To select a different location, click **Browse**, choose a folder, and then click **OK**.

5 Click **Next**. The Deployment Configuration screen opens.



Choose one of the following and click **Next**:

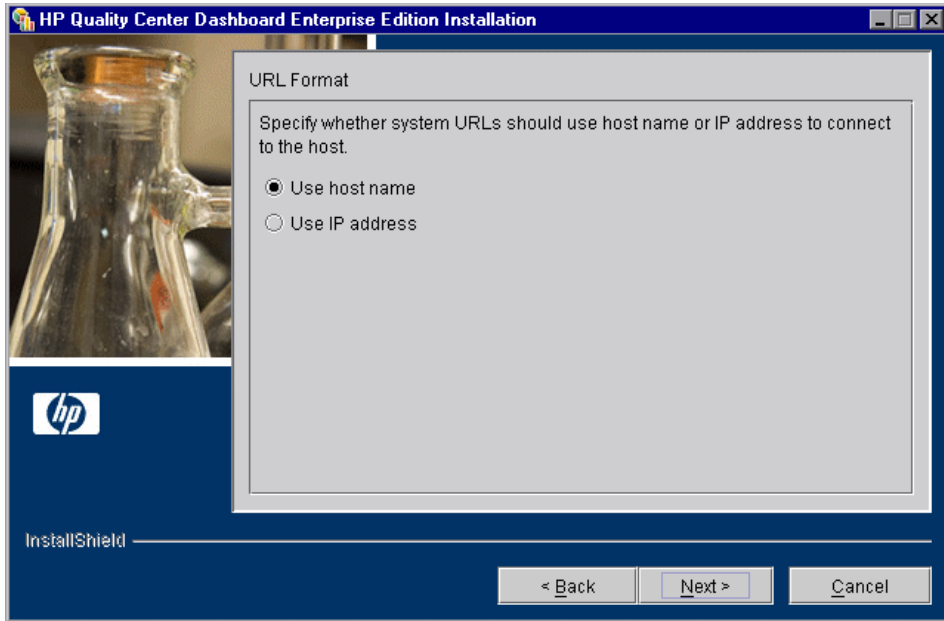
- ▶ **Standalone.** Choose this option if you are installing Dashboard on a server that is not part of a cluster. Proceed to step 7 on page 22.
- ▶ **Cluster.** Choose this option if you are installing Dashboard on a node of a cluster. Proceed to step 6 on page 21.

**6** The Cluster Mode screen opens.

Choose one of the following:

- **First Node.** Choose this option if Dashboard has not yet been installed on any node of the cluster.
- **Other Node.** Choose this option if Dashboard has already been installed on a node of the cluster.

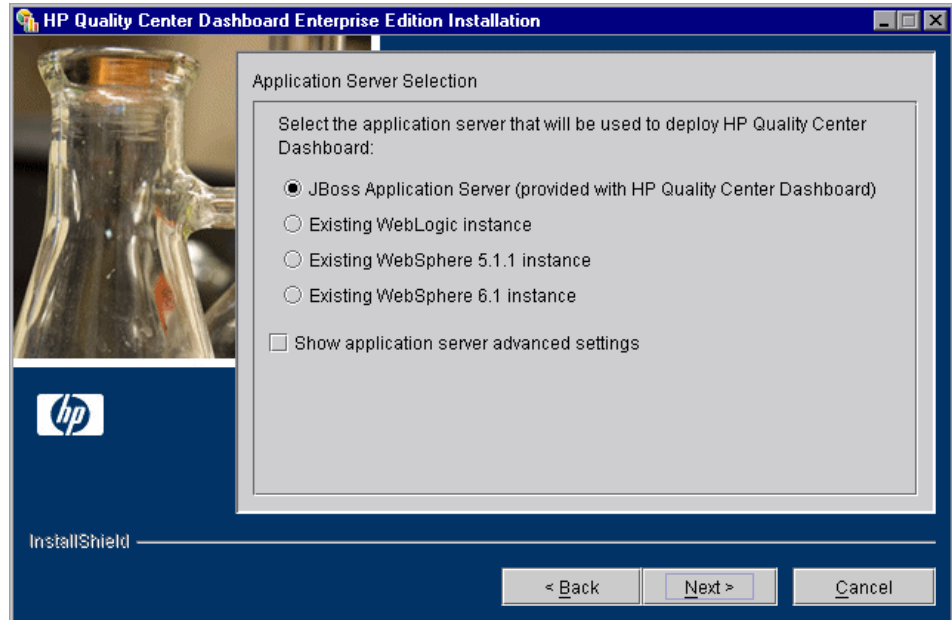
7 Click **Next**. The URL Format screen opens.



Select one of the following options:

- ▶ **Use Host Name.** This selection sets the system URLs to connect to the host according to its name. Use this method when using Dashboard over a LAN or WAN, where the host name is accessible.
- ▶ **Use IP Address.** This selection sets the system URLs to connect to the host according to its IP address. Use this method when using Dashboard where the host name is not recognized. Use this method only when the IP address of the host server is permanent.

- 8 Click **Next**. The Application Server Selection screen opens. Choose the application server on which Dashboard will be deployed.



Choose one of the following:

- **JBoss Application Server.** This selection uses the JBoss application server provided with Dashboard.
- **Existing WebLogic instance.** This selection uses a WebLogic instance located on the server on which you are installing Dashboard.
- **Existing WebSphere instance 5.1.1.** This selection uses a WebSphere 5.1.1 instance located on the server on which you are installing Dashboard.
- **Existing WebSphere instance 6.1.** This selection uses a WebSphere 6.1 instance located on the server on which you are installing Dashboard.

Select **Show application server advanced settings** in either of the following cases:

- ▶ You are using a **JBoss** application server, and you want to change the default port number.
- ▶ You are using a **WebLogic** or **WebSphere** application server, and your application server is not using the default port number (7001 for WebLogic, and 9080 for WebSphere).

Click **Next**.

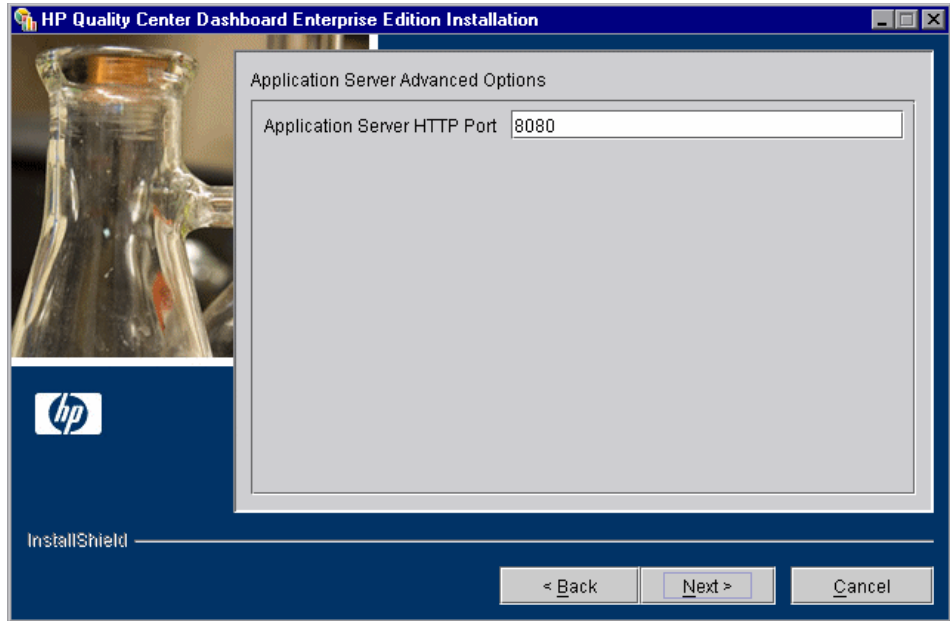
If you selected **Show application server advanced settings**, proceed to step 9 on page 25.

If you did not select **Show application server advanced settings**, then:

- ▶ For **JBoss**, proceed to “Installing Dashboard on a JBoss Server” on page 26.
- ▶ For **Weblogic** or **WebSphere**, proceed to “Specifying the Mail Protocol Options” on page 30.



9 The Application Server Advanced Options screen opens.



In the **Application Server HTTP Port** edit box, type the default port number for the selected application server. (If the port you select is already in use, you will receive a warning and prompt to select a different port.):

- **JBoss.** 8080. If necessary, you can change the default port number for the JBoss application server.
- **WebLogic.** 7001
- **WebSphere.** 9080

Click **Next**.

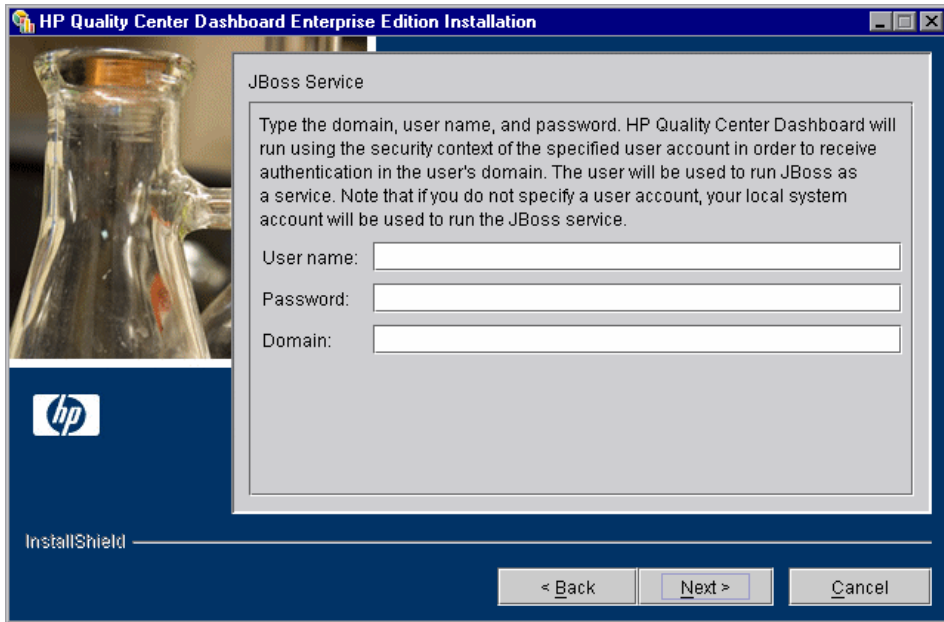
- For **JBoss**, proceed to “Installing Dashboard on a JBoss Server” on page 26.
- For **Weblogic** or **WebSphere**, proceed to “Specifying the Mail Protocol Options” on page 30.
- For installation on a **non-Windows operating system**, proceed to step 2 on page 31.

## Installing Dashboard on a JBoss Server

If you are installing Dashboard to work on a JBoss server, you need to configure JBoss settings in Dashboard.

**To configure the JBoss settings:**

- 1 The JBoss Service screen identifies the user account for the JBoss service.



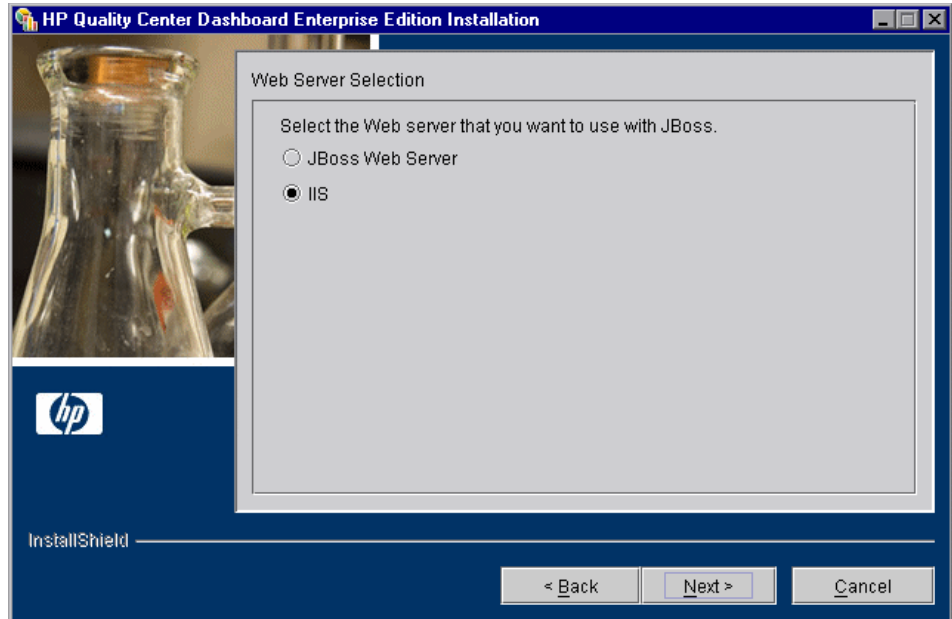
Enter the **User name**, **Password**, and **Domain** to be used to run JBoss as a service. This enables the JBoss service to access your local network.

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**Note:** If you leave these fields blank, the local system account will be used to run the JBoss service, and the JBoss service will not have access to your local network.

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2 Click **Next**. The Web Server Selection screen opens.

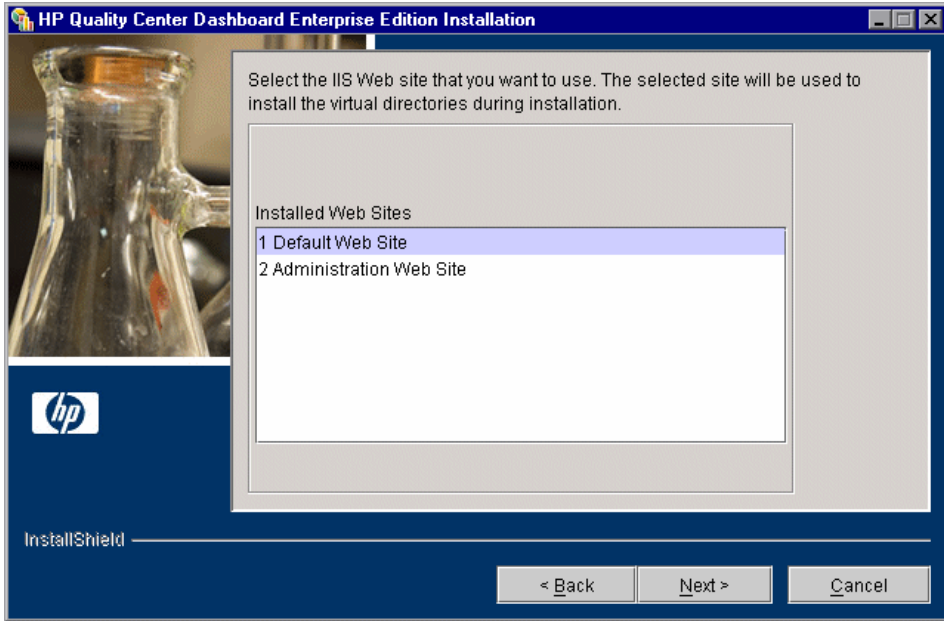


Select the Web server that you want to integrate with JBoss. You can use the Web server included with JBoss, or Microsoft IIS.

Click **Next**.

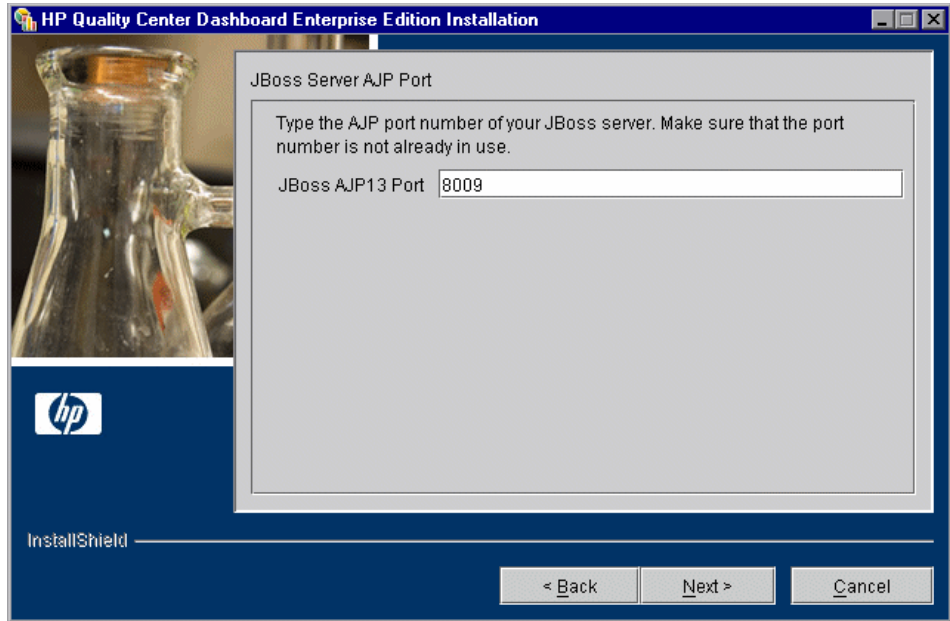
- ▶ If you selected **JBoss**, proceed to “Specifying the Mail Protocol Options” on page 30.
- ▶ If you selected **IIS**, proceed to step 3 on page 28.

3 The Installed Web Sites screen opens.



Select the IIS Web site that you want Dashboard to use. It is recommended that you choose **Default Web Site**.

- 4 Click **Next**. The JBoss Port Server AJP Port screen opens.



In the **JBoss AJP13 Port** edit box you can change the JBoss port number. The default port is 8009.

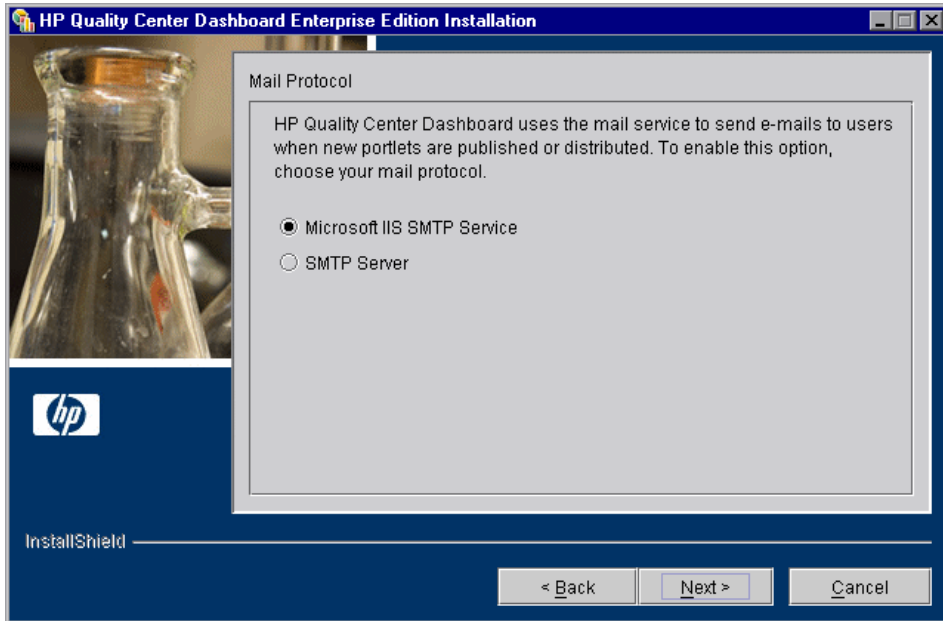
Proceed to "Specifying the Mail Protocol Options" on page 30.

## Specifying the Mail Protocol Options

In the following procedure, you specify the mail protocol used by Dashboard.

To specify the mail protocol options:

- 1 The Mail Protocol screen opens.

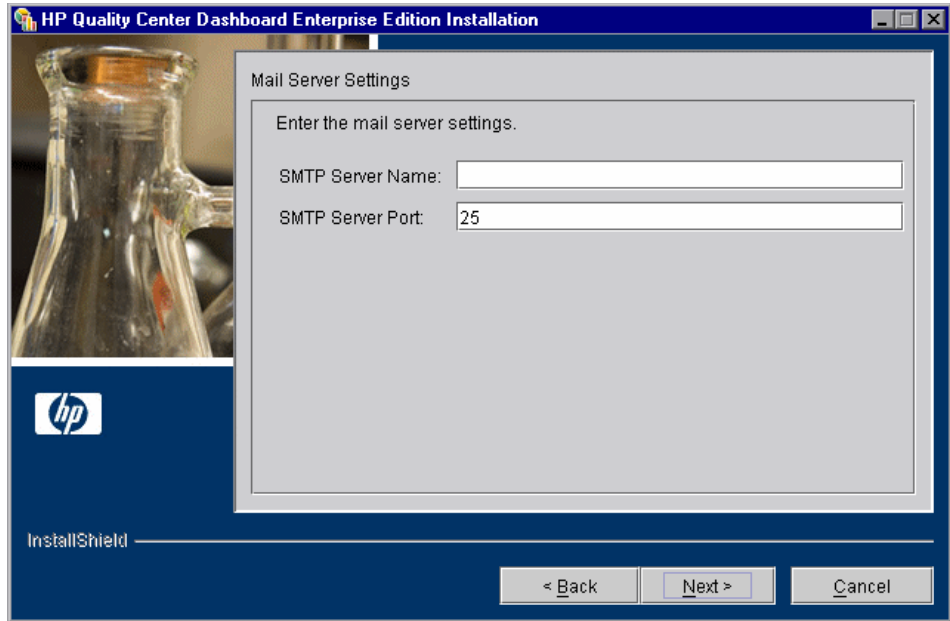


Choose the mail protocol that Dashboard will use to send e-mail notifications when portlets are published or distributed.

Choose one of the following protocols:

- ▶ **Microsoft IIS SMTP Service**, and proceed to “Specifying the Database Information” on page 32.
- ▶ **SMTP Server**, and proceed to step 2 on page 31.

2 Click **Next**. The Mail Server Settings screen opens.



Enter the **SMTP Server Name** (or the SMTP server's IP address) and the **SMTP Server Port**.

Proceed to "Specifying the Database Information" on page 32.

## Specifying the Database Information

In the following procedure, you select a database type and define the database settings for Dashboard.

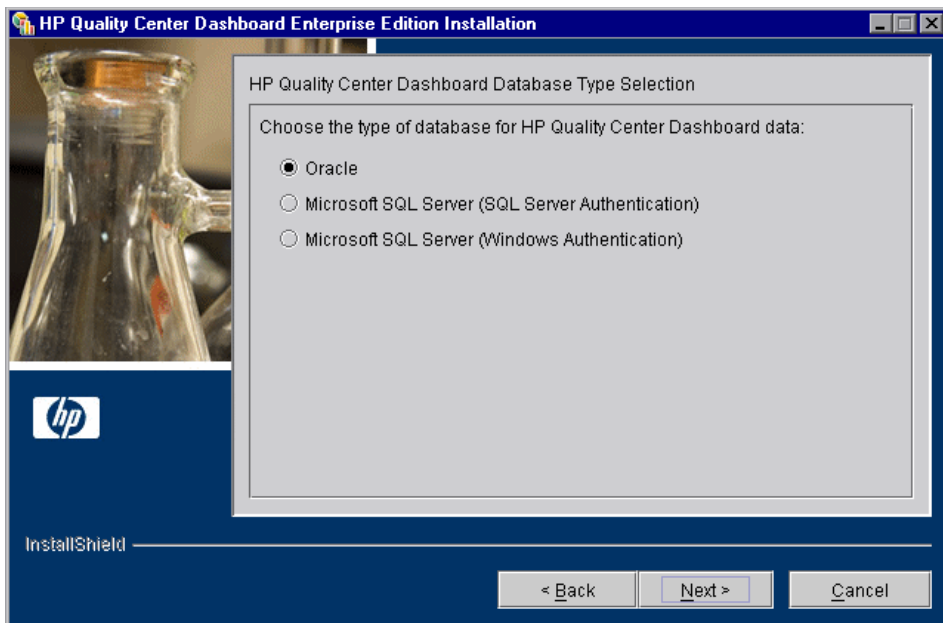
To set the database options:

- 1 Click **Next**. The HP Quality Center Dashboard Database Type Selection screen opens.

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**Note to non-Windows users:** If you are installing Dashboard on a non-Windows operating system, the **Microsoft SQL Server (Windows Authentication)** option will not be displayed in the HP Quality Center Dashboard Database Type Selection screen.

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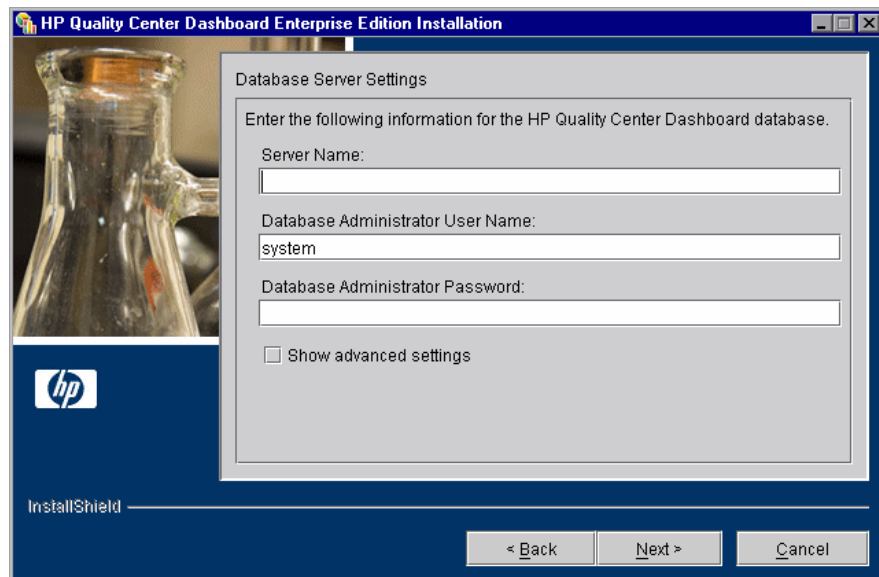


Select the type of database that you want Dashboard to use for storing data:

- **Oracle**
- **Microsoft SQL Server (SQL Server Authentication)**
- **Microsoft SQL Server (Windows Authentication)**

- 2** Click **Next**. The Database Server Settings screen opens. The fields in this screen depend on the database type you selected in step 1.

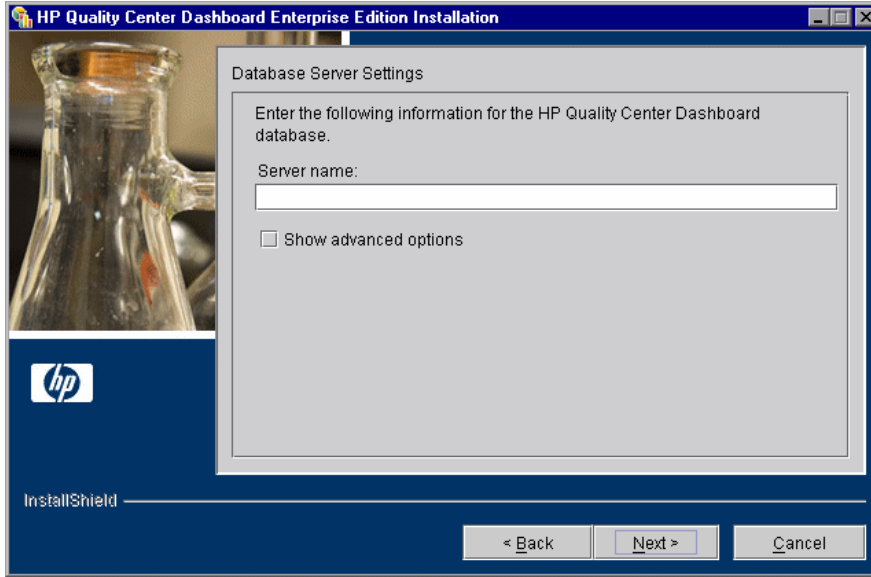
If you selected **Oracle** or **Microsoft SQL Server (SQL Server Authentication)**, the following fields are displayed:



The screenshot shows a Windows-style dialog box titled "HP Quality Center Dashboard Enterprise Edition Installation" with a sub-title "Database Server Settings". The dialog box contains the following fields and controls:

- A header image of a glass carafe.
- The HP logo.
- The text "InstallShield" in the bottom left corner.
- The title "Database Server Settings".
- The instruction: "Enter the following information for the HP Quality Center Dashboard database."
- A "Server Name:" label followed by an empty text input field.
- A "Database Administrator User Name:" label followed by a text input field containing the text "system".
- A "Database Administrator Password:" label followed by an empty password input field.
- A checkbox labeled "Show advanced settings" which is currently unchecked.
- Three buttons at the bottom: "< Back", "Next >", and "Cancel".

If you selected **Microsoft SQL Server (Windows Authentication)**, the following field is displayed:



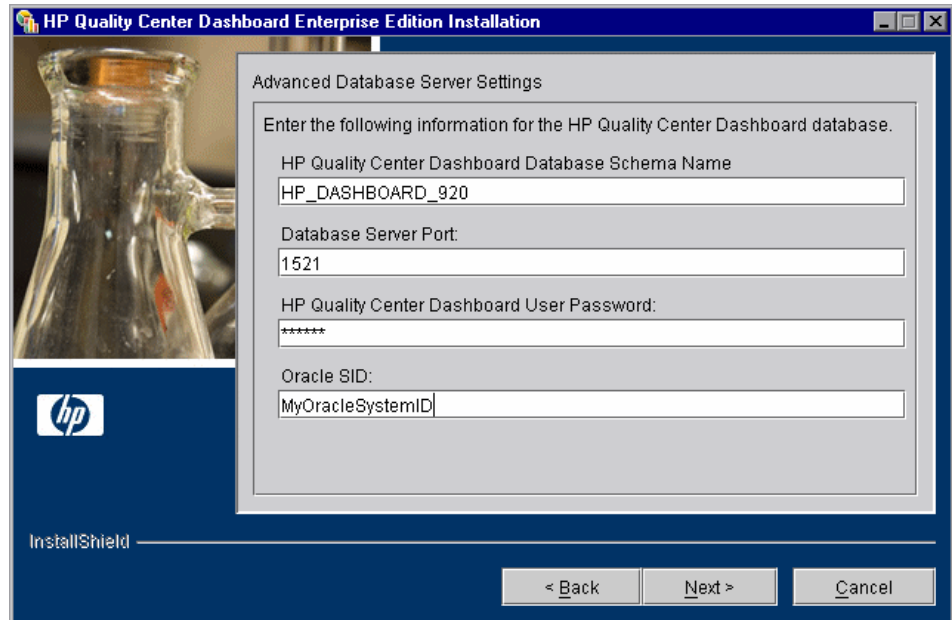
Enter the following information for the Dashboard database server, depending on your database type:

- **Server Name.** This field applies to **all database types**.
- **Database Administrator User Name.** This field applies to **Oracle** and **Microsoft SQL Server (SQL Server Authentication)**.
- **Database Administrator Password.** This field applies to **Oracle** and **Microsoft SQL Server (SQL Server Authentication)**.

Select **Show advanced settings** to define advanced database settings.

- 3 Click **Next**. The Advanced Database Server Settings screen opens. The fields in this screen depend on the database type that you selected in step 1.

If you selected **Oracle**, the following fields are displayed:

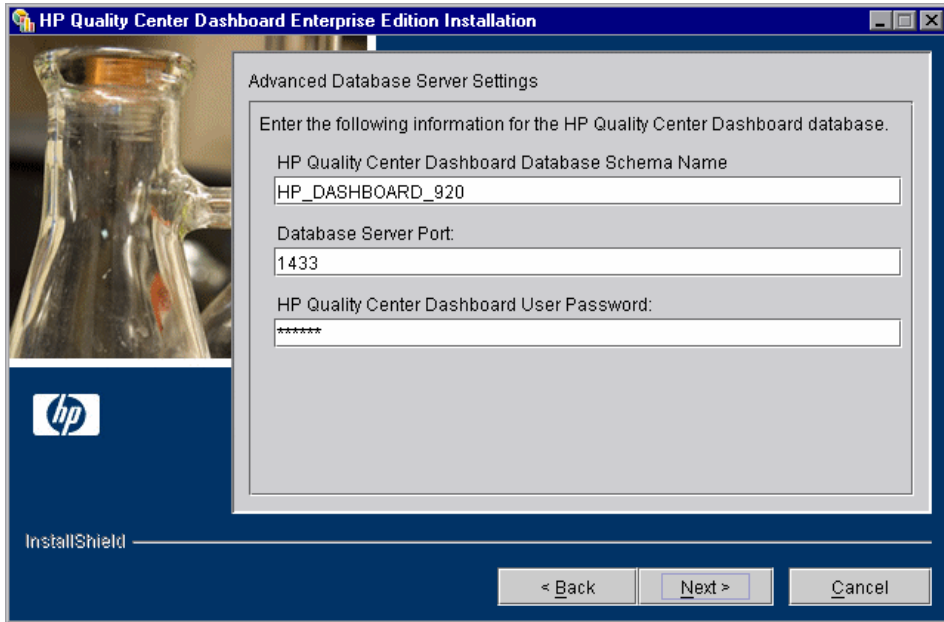


The screenshot shows a Windows-style dialog box titled "HP Quality Center Dashboard Enterprise Edition Installation". The main window has a blue background with the HP logo and the text "InstallShield". A smaller, white dialog box titled "Advanced Database Server Settings" is overlaid on top. This dialog box contains the following fields:

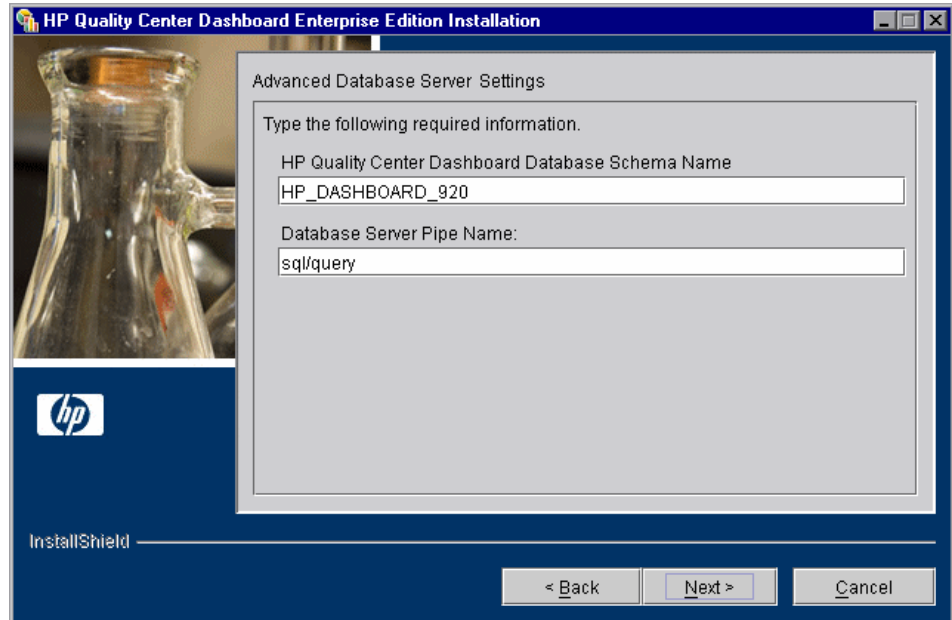
- HP Quality Center Dashboard Database Schema Name: HP\_DASHBOARD\_920
- Database Server Port: 1521
- HP Quality Center Dashboard User Password: \*\*\*\*\*
- Oracle SID: MyOracleSystemID

At the bottom of the dialog box, there are three buttons: "< Back", "Next >", and "Cancel".

If you selected **Microsoft SQL Server (SQL Server Authentication)**, the following fields are displayed:



If you selected **Microsoft SQL Server (Windows Authentication)**, the following fields are displayed:



The screenshot shows a Windows installation window titled "HP Quality Center Dashboard Enterprise Edition Installation". The window features a blue header with the HP logo and the text "InstallShield". The main content area is titled "Advanced Database Server Settings" and contains the following text and input fields:

Type the following required information.

HP Quality Center Dashboard Database Schema Name

Database Server Pipe Name:

At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel".

Enter the following information in the fields, depending on your database type:

- **HP Quality Center Dashboard Database Schema Name (All database types).** Enter the name of the Dashboard database schema (maximum: 30 characters for Oracle, 128 characters for Microsoft SQL). The name can consist of the digits 0–9, letters of the alphabet and the underscore character ("\_"), and must not begin with a digit. This schema is used to store Dashboard application data. The default Dashboard database schema name is MERCURY\_Dashboard\_900.
- **Database Server Port (Oracle and Microsoft SQL Server (SQL Server Authentication)).** Enter the Oracle or Microsoft SQL Server port number. The default port numbers are:
  - **Oracle:** Enter 1521
  - **Microsoft SQL Server (SQL Server Authentication):** Enter 1433
- **HP Quality Center Dashboard User Password (Oracle and Microsoft SQL Server (SQL Server Authentication)).** Enter the password used to log on to Dashboard.
- **Oracle SID (Oracle only).** Enter the Oracle system ID.
- **Database Server Pipe Name (Microsoft SQL Server (Windows Authentication) only).** Enter the server pipe name for the Microsoft SQL Server.

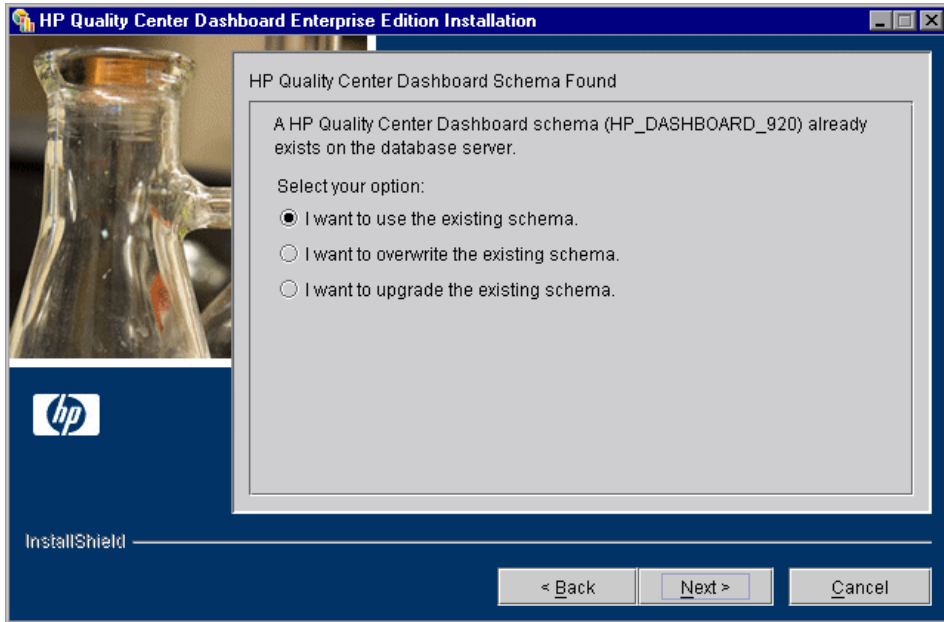
**Note for Oracle users:**

Oracle users must have the following privileges:

- ▶ create user
  - ▶ create table with admin option
  - ▶ create session with admin option
  - ▶ create view with admin option
  - ▶ drop user
  - ▶ select from dba\_users
  - ▶ select from dba\_tablespaces
  - ▶ create procedure with admin option
  - ▶ create sequence with admin option
  - ▶ query rewrite with admin option
- 

- 4** Click **Next**. The installation procedure verifies that the database server exists and that the entered parameters are correct.
- ▶ If the Dashboard database schema already exists:
    - ▶ For **Oracle** or **Microsoft SQL Server (SQL Server Authentication)**, proceed to step 5 on page 40.
    - ▶ For **Microsoft SQL Server (Windows Authentication)**, proceed to step 8 on page 43.
  - ▶ If the Dashboard database schema does not already exist:
    - ▶ For **Oracle**, proceed to step 6 on page 41.
    - ▶ For **Microsoft SQL Server (SQL Server Authentication)** or **Microsoft SQL Server (Windows Authentication)**, proceed to step 8 on page 43.

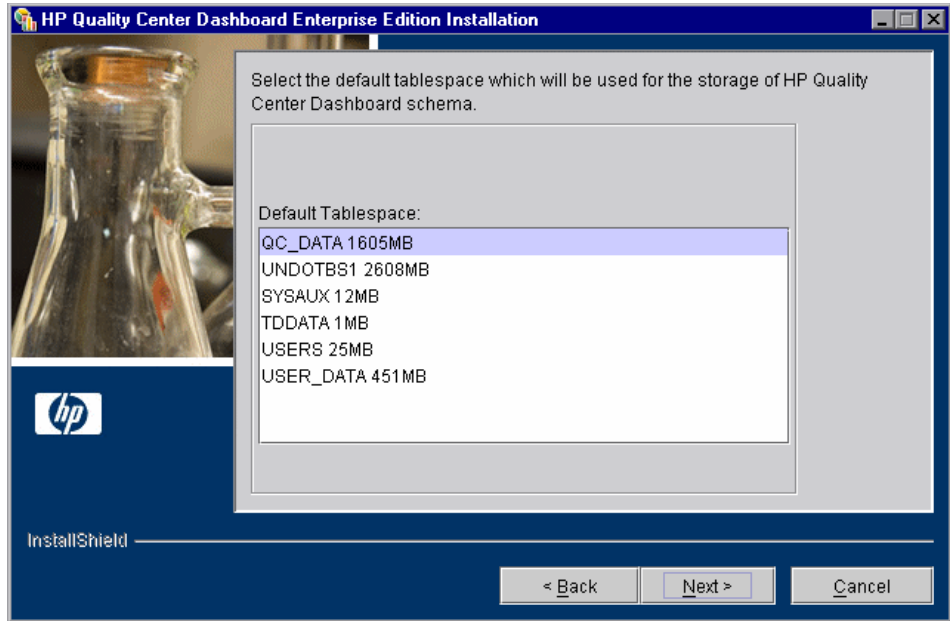
- 5 If the Dashboard database schema already exists, the HP Quality Center Dashboard Schema Found screen opens.



Select one of the following options and click **Next**:

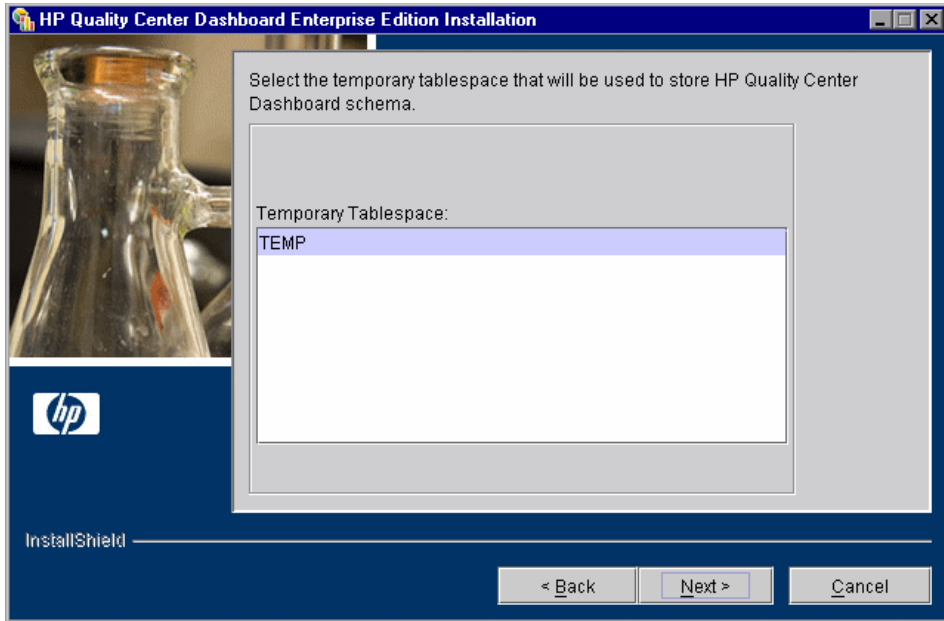
- ▶ **I want to use the existing schema.** This selection allows you to work with your existing database schema. Proceed to step 8 on page 43.
- ▶ **I want to overwrite the existing schema.** This selection creates a new database schema and overwrites the existing data.
  - ▶ For **Oracle**, proceed to step 6 on page 41.
  - ▶ For **Microsoft SQL Server (SQL Server Authentication)**, proceed to step 8 on page 43.
- ▶ **I want to upgrade the existing schema.** This selection upgrades an existing database schema that was created for an earlier version of Dashboard. Proceed to step 8 on page 43.



**6** The Default Tablespace screen opens.

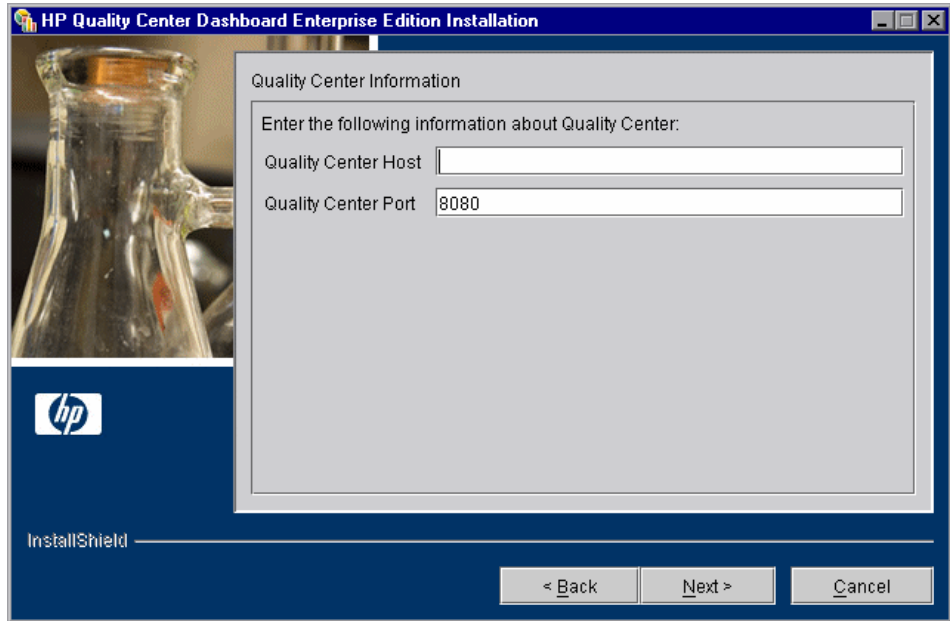
Select a default storage location for the Dashboard schema from the list.

7 Click **Next**. The Temporary Tablespace screen opens.



Select a temporary storage location for the Dashboard schema from the list.

- 8 Click **Next**. The Quality Center Information screen opens.



Enter the following information about Quality Center:

- **Quality Center Host.** Type the name or IP address of the machine on which Quality Center is installed.
- **Quality Center Port.** Type the number of the port to which the host machine is connected. The default Quality Center port is 8080.

---

**Note:** If the Quality Center server is running IIS with SSL enabled, refer to the TestDirector for Quality Center Knowledge Base (<http://support.mercury.com>) and search for Problem ID **50560**.

---

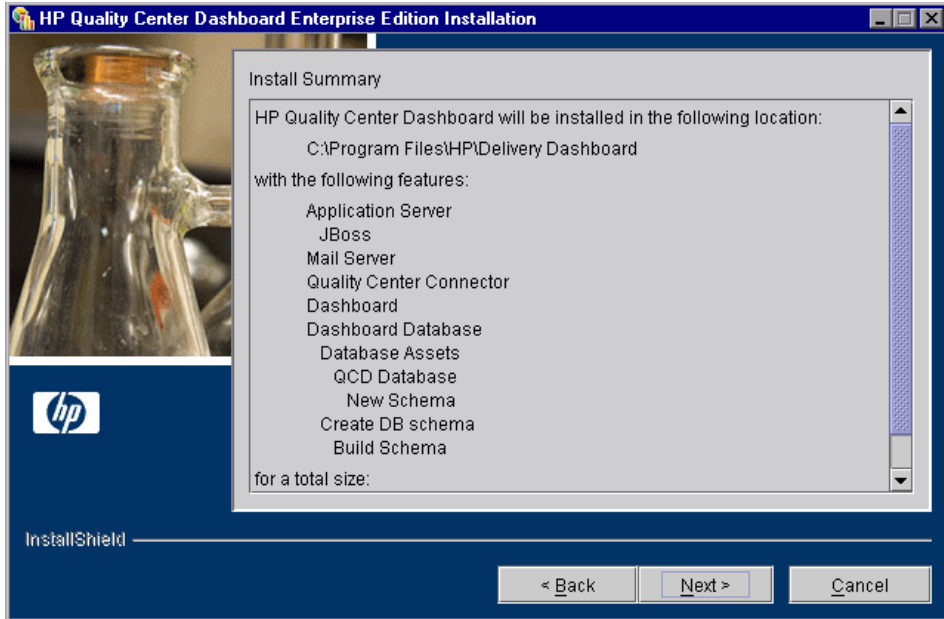
Proceed to “Completing the Installation” on page 44.

## Completing the Installation

This is the final stage of the installation.

To review the installation details and start Dashboard:

- 1 Click **Next**. The Install Summary screen opens.



---

**Note:** If the Quality Center server uses SSL, there is a delay before the Install Summary screen is displayed.

---

To review or change any settings, click **Back**.

To accept the settings and start the installation process, click **Next**.

---

**Note:** If you receive a message indicating that a Java Virtual Machine (JVM) is being installed and will overwrite the contents of a directory, click **OK**.

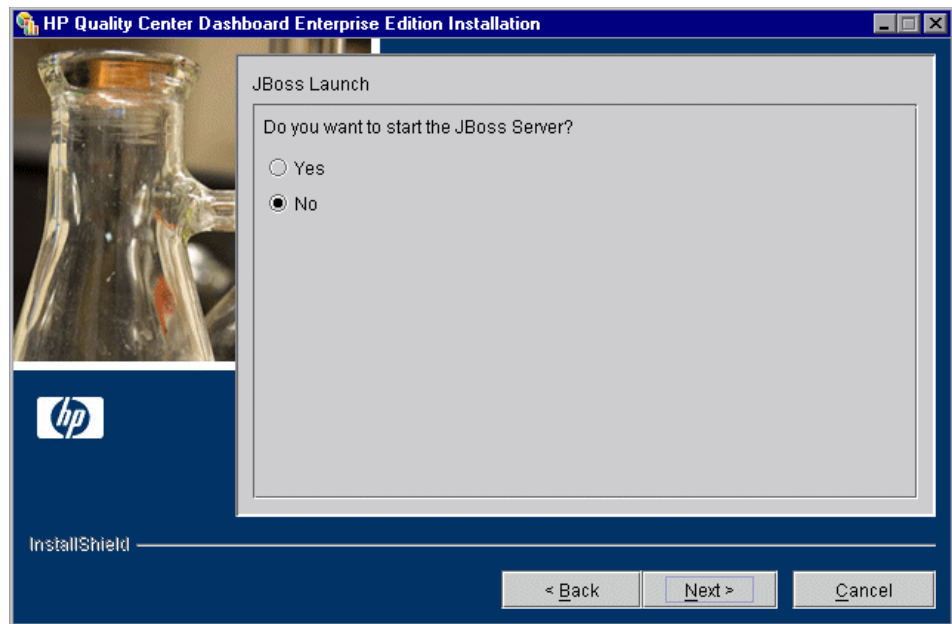
---

A progress bar displays the progress of the installation, which may take a few moments.

If you installed Dashboard to run with JBoss, proceed to the following step. Otherwise, proceed to step 3 on page 46.

- 2 If you integrated JBoss with an IIS Web server, a Restart Needed screen opens, prompting you to restart the Web server to apply the changes. Click **Next**.

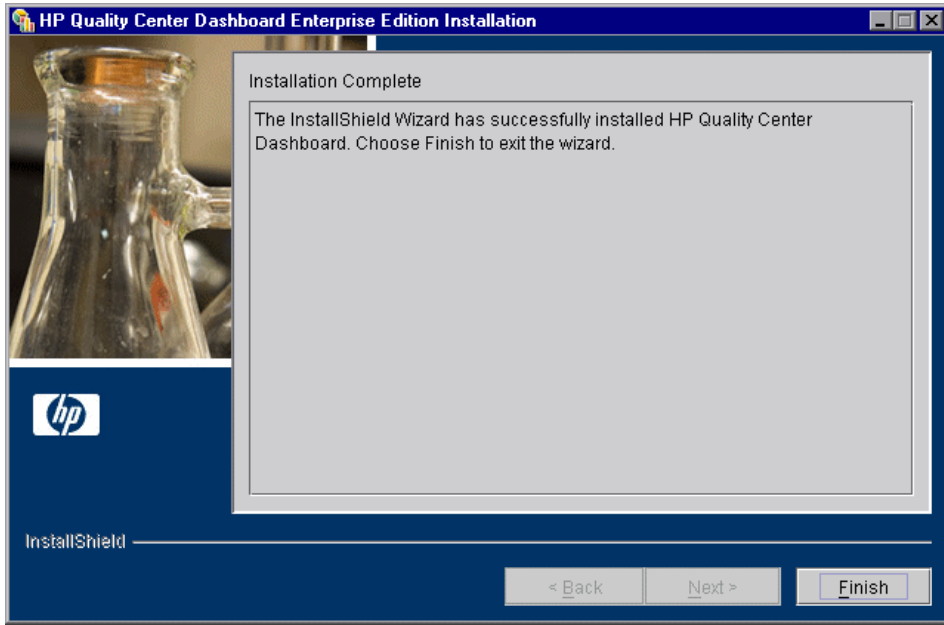
When the installation process is complete, the JBoss Launch screen prompts you to indicate whether you want to launch the JBoss server in order to activate Dashboard.



Select one of the following options:

- **Yes.** The JBoss server is launched and Dashboard is activated.
- **No.** The installation completes but Dashboard is not activated.

- 3 Click **Next**. The Installation Complete screen opens, showing that the installation has completed successfully.



Click **Finish**.

---

**Note:** Dashboard provides you with a default module that you can import. The default module is a set of pages that contain portlets. For more information on importing the default module, refer to *HP Quality Center Dashboard Administrator's Guide*.

---

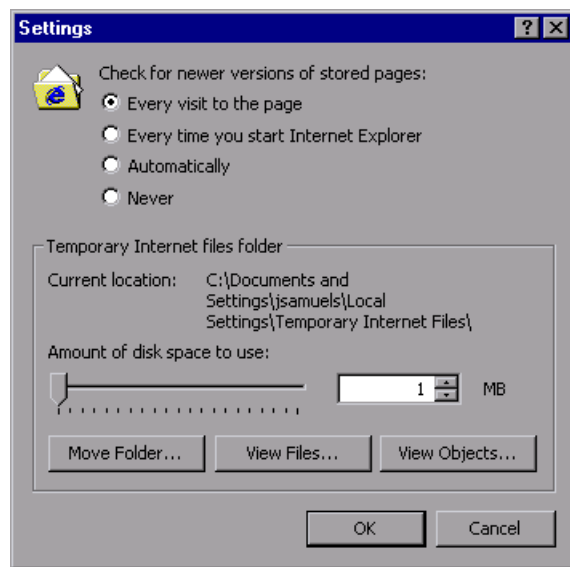
- 4 If you installed Dashboard on a **WebLogic** or **WebSphere** application server, you must deploy the application manually. For more information on deploying Dashboard manually:
  - ▶ For a **WebLogic** application server, see Chapter 3, "Deploying the Dashboard Application on a WebLogic Server."
  - ▶ For a **WebSphere** application server, see Chapter 4, "Deploying the Dashboard Application on a WebSphere Server."

## Defining Temporary Internet Settings

Since Dashboard is based on HTML pages, you must configure the temporary Internet settings to display the most updated versions of the stored pages. Note that if the settings are not configured to automatically check for newer versions of the stored pages, you will have to manually refresh each page periodically.

**To define the temporary Internet settings:**

- 1 Open your Web browser.
- 2 Choose **Tools > Internet Options**. The Internet Options dialog box opens and displays the General tab.
- 3 In the **Temporary Internet files** area, check **Settings**. The Settings dialog box opens.



- 4 Under **Check for newer versions of stored pages**, select either the radio button **Every visit to the page** or **Automatically**. This ensures that every time you open a stored page, the latest version of the page is opened.
- 5 Click **OK** to save the new settings.

- 6 Click **OK** to close the Internet Options dialog box and apply the new settings.



# 3

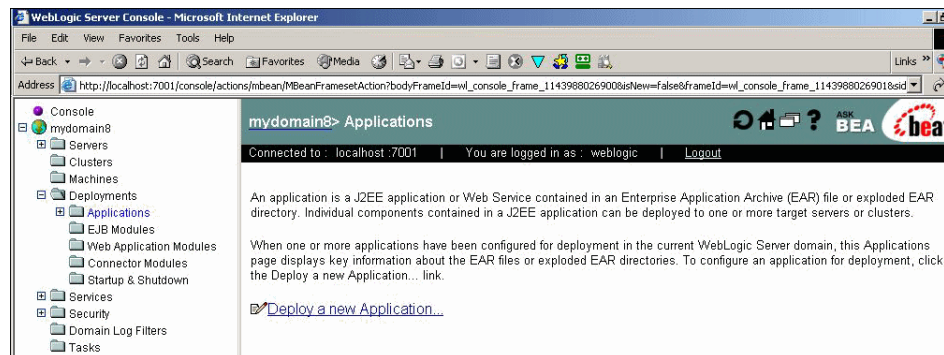
## Deploying the Dashboard Application on a WebLogic Server

This chapter describes how to deploy the Dashboard application on a WebLogic application server.

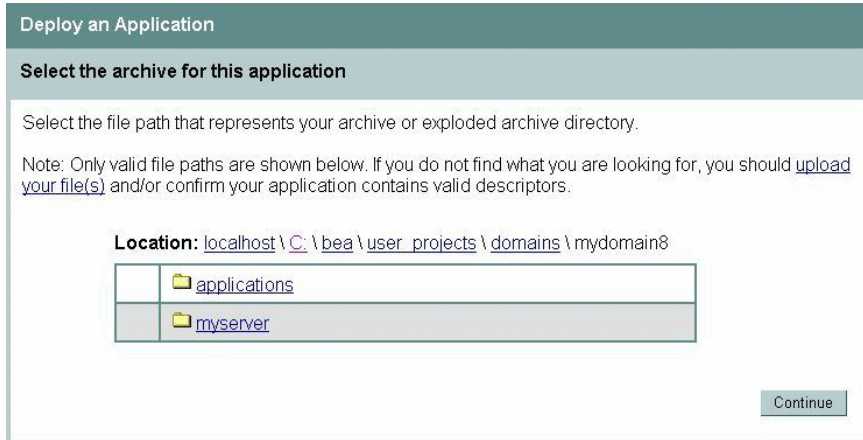
After you have installed Dashboard (see Chapter 2, “Setting Up Dashboard”), you can deploy the Dashboard application. You deploy the Dashboard application from the Applications page of the WebLogic Server Console.

**To deploy the Dashboard application:**

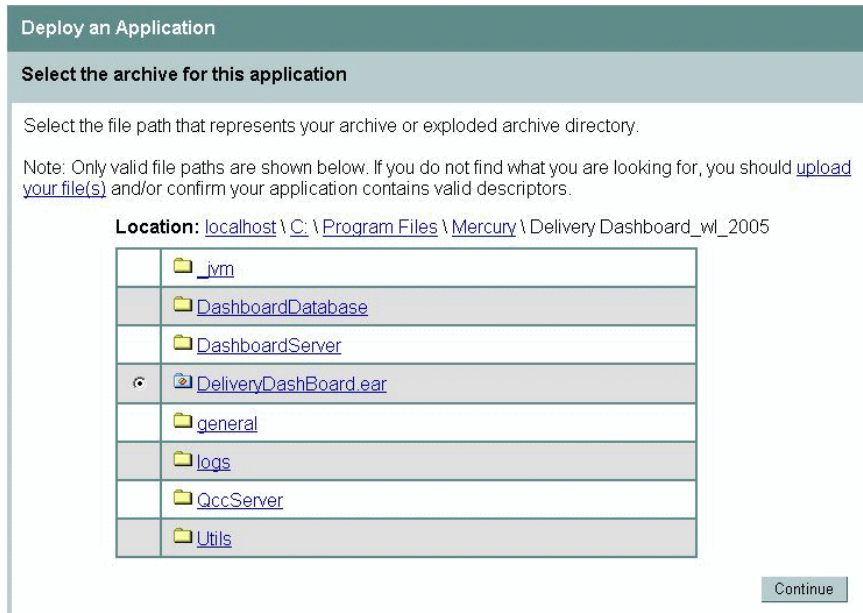
- 1 In the navigation tree of the WebLogic Server Console, choose **<your WebLogic domain> > Deployments > Applications**. The Applications page opens.



- 2 Click the **Deploy a new Application** link. The **Select the Archive for this Application** page opens.



- 3 Use the path links following **Location:** to browse to the **DeliveryDashboard.ear** folder, located in the Dashboard installation folder.



4 Click **Continue**. The Review Your Choices and Deploy page opens.

### Deploy an Application

#### Review your choices and deploy

##### Deployment Targets

Your application will be deployed to the following locations:

<b>DeliveryDashBoard</b> will be deployed to
<b>Servers</b> - myserver

##### Source Accessibility

Since this is a single server environment, no further stage configuration is required. The server will access this application's files from the location specified.

##### Identity

Enter a name to be used to identify this application.

**Name:**

The name of this application deployment.

- 5 Click **Deploy**. The Deployment Status for Web Application Modules page opens, displaying the deployment status of each module in the application.

Configuration | Targets | **Deploy** | Notes

This page allows you to view the deployment status of each module in the application. You may also choose to stop and redeploy all modules within the application using the buttons at the bottom of the page. (To configure additional deployment targets for this application, click the Targets tab.)

**Deployment Status for Web Application Modules**

Module	Module Status	Target	Target Type	Status of Last Action
<a href="#">MetaDataServer</a>	Inactive	<a href="#">myserver</a>	Server	<a href="#">In Progress (23 seconds)</a>
<a href="#">qcc</a>	Inactive	<a href="#">myserver</a>	Server	<a href="#">In Progress (23 seconds)</a>
<a href="#">KPI Scheduling Server</a>	Inactive	<a href="#">myserver</a>	Server	<a href="#">In Progress (24 seconds)</a>
<a href="#">dashboard</a>	Inactive	<a href="#">myserver</a>	Server	<a href="#">In Progress (24 seconds)</a>
<a href="#">DeliveryCenter</a>	Inactive	<a href="#">myserver</a>	Server	<a href="#">In Progress (24 seconds)</a>

Deploy Application

- 6 Wait until the deployment process finishes.

Configuration | Targets | **Deploy** | Notes

This page allows you to view the deployment status of each module in the application. You may also choose to stop and redeploy all modules within the application using the buttons at the bottom of the page. (To configure additional deployment targets for this application, click the Targets tab.)

**Deployment Status for Web Application Modules**

Module	Module Status	Target	Target Type	Status of Last Action
<a href="#">MetaDataServer</a>	Active	<a href="#">myserver</a>	Server	<a href="#">Success</a>
<a href="#">qcc</a>	Active	<a href="#">myserver</a>	Server	<a href="#">Success</a>
<a href="#">KPI Scheduling Server</a>	Active	<a href="#">myserver</a>	Server	<a href="#">Success</a>
<a href="#">dashboard</a>	Active	<a href="#">myserver</a>	Server	<a href="#">Success</a>
<a href="#">DeliveryCenter</a>	Active	<a href="#">myserver</a>	Server	<a href="#">Success</a>

Stop Application      Redeploy Application

When the **Status of Last Action** indicates **Success**, the application deployment is successfully completed.

# 4

---

## Deploying the Dashboard Application on a WebSphere Server

This chapter describes how to deploy the Dashboard application on a WebSphere application server, and how to specify configuration values. Dashboard can be installed on WebSphere version 5.1.1.8 or 6.1.

**This chapter includes:**

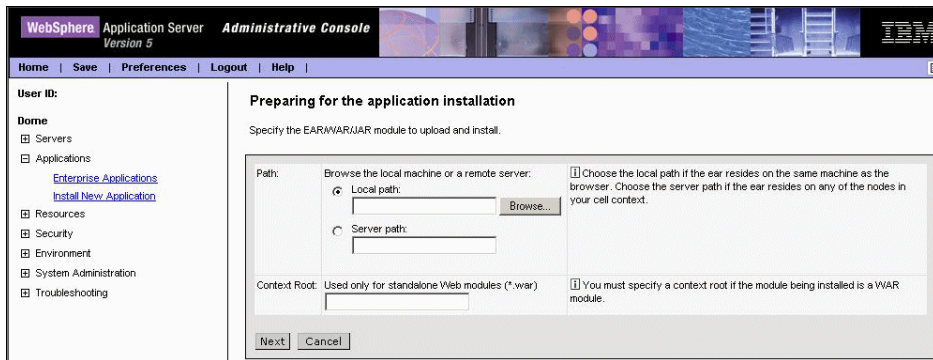
- Deploying the Dashboard Application on WebSphere 5.1.1.8 on page 54
- Specifying Configuration Values on WebSphere 5.1.1.8 on page 59
- Deploying the Dashboard Application on WebSphere 6.1 on page 62
- Specifying Configuration Values on WebSphere 6.1 on page 68

## Deploying the Dashboard Application on WebSphere 5.1.1.8

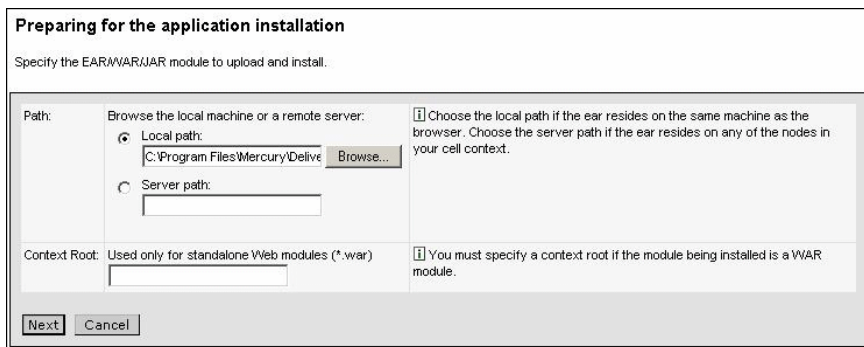
After you install Dashboard (see Chapter 2, “Setting Up Dashboard”), you can deploy the Dashboard application. You deploy the Dashboard application from the Applications page of the WebSphere Administrative Console.

**To deploy the Dashboard application:**

- 1 In the navigation tree on the left, choose **Applications > Install New Application**. The Preparing for the Application Installation page opens.



- 2 Click the **Browse** button, and select the **DeliveryDashboard.ear** file located in the Dashboard installation folder.



- 3 Click **Next**. The Preparing for the Application Installation page displays default bindings and mappings options.

**Preparing for the application installation**

You can choose to generate default bindings and mappings. [?](#)

**Generate Default Bindings**

Override:	<input checked="" type="radio"/> Do not override existing bindings <input type="radio"/> Override existing bindings	<a href="#">?</a> Generate default bindings for existing entries and over write them.
Virtual Host	<input type="radio"/> Do not default virtual host name for web modules <input checked="" type="radio"/> Default virtual host name for web modules: <input type="text" value="default_host"/>	<a href="#">?</a> The virtual host to be used for this web module.
Specific bindings file:	<input type="text"/> <input type="button" value="Browse..."/>	<a href="#">?</a> Optional location of pre-defined bindings file.

Select the **Generate Default Bindings** check box.

- 4 Click **Next**. The Step 1: Provide Options to Perform the Installation page opens.

**→ Step 1: Provide options to perform the installation**

Specify the various options available to prepare and install your application.

AppDeployment Options	Enable
Pre-compile JSP	<input type="checkbox"/>
Directory to Install Application	<input type="text"/>
Distribute Application	<input checked="" type="checkbox"/>
Use Binary Configuration	<input type="checkbox"/>
Deploy EJBs	<input type="checkbox"/>
Application Name	<input type="text" value="DeliveryDashboard"/>
Create MBeans for Resources	<input checked="" type="checkbox"/>
Enable Class Reloading	<input type="checkbox"/>
Reload Interval in Seconds	<input type="text"/>
Deploy WebServices	<input type="checkbox"/>

[Step 2](#) Map virtual hosts for web modules  
[Step 3](#) Map modules to application servers

No changes are required to this page.

5 Click **Next**. The Step 2: Map Virtual Hosts for Web Modules page opens.

**Install New Application**  
Allows installation of Enterprise Applications and Module

[Step 1](#) Provide options to perform the installation

→ **Step 2: Map virtual hosts for web modules**

Specify the virtual host where you want to install the Web modules contained in your application. Web modules can be installed on the same virtual host or dispersed among several hosts.

Apply Multiple Mappings

<input checked="" type="checkbox"/> Web Module	Virtual Host
<input checked="" type="checkbox"/> applications/10MetaDataServer.war	default_host
<input checked="" type="checkbox"/> applications/15qcc.war	default_host
<input checked="" type="checkbox"/> applications/20KPIschedulingServer.war	default_host
<input checked="" type="checkbox"/> dashboard	default_host
<input checked="" type="checkbox"/> applications/DeliveryCenter.war	default_host

Previous Next Cancel

[Step 3](#) Map modules to application servers

Select the **Web Module** check box.

6 Click **Next**. The Step 3: Map Modules to Application Servers page opens.

[Step 1](#) Provide options to perform the installation

[Step 2](#) Map virtual hosts for web modules

→ **Step 3: Map modules to application servers**

Specify the application server where you want to install modules contained in your application. Modules can be installed on the same server or dispersed among several servers.

Clusters and Servers:  
WebSphere:cell=Dome,node=Dome,server=server1

Apply

<input checked="" type="checkbox"/> Module	URI	Server
<input checked="" type="checkbox"/> applications/10MetaDataServer.war	applications/10MetaDataServer.war\WEB-INF/web.xml	WebSphere:cell=Dome,node=Dome,server=server1
<input checked="" type="checkbox"/> applications/15qcc.war	applications/15qcc.war\WEB-INF/web.xml	WebSphere:cell=Dome,node=Dome,server=server1
<input checked="" type="checkbox"/> applications/20KPIschedulingServer.war	applications/20KPIschedulingServer.war\WEB-INF/web.xml	WebSphere:cell=Dome,node=Dome,server=server1
<input checked="" type="checkbox"/> dashboard	applications/dashboard.war\WEB-INF/web.xml	WebSphere:cell=Dome,node=Dome,server=server1
<input checked="" type="checkbox"/> applications/DeliveryCenter.war	applications/DeliveryCenter.war\WEB-INF/web.xml	WebSphere:cell=Dome,node=Dome,server=server1

Previous Next Cancel

Select the **Module** check box.



7 Click **Next**. The Step 4: Summary page opens.

[Step 2](#) Map virtual hosts for web modules  
[Step 3](#) Map modules to application servers

→ **Step 4: Summary**

Summary of Install Options

Options	Values
Distribute Application	Yes
Use Binary Configuration	No
Cell/Node/Server	<a href="#">Click here</a>
Enable Class Reloading	No
Create MBeans for Resources	Yes
Deploy EJBs	No
Reload Interval in Seconds	
Application Name:	DeliveryDashboard
Directory to Install Application	
Pre-compile JSP	No
Application Name	DeliveryDashboard
Deploy WebServices	No

8 Click **Finish**. The installation begins. A page opens indicating the progress of the installation.

**Installing..**

**If there are EJB's in the application, the EJB Deploy process may take several minutes. Please do not save the configuration until the process is complete.**

Check the SystemOut.log on the Deployment Manager or Server where the application is deployed for specific information about the EJB Deploy process as it occurs.

ADMA5005I: Application DeliveryDashboard configured in WebSphere repository

ADMA5001I: Application binaries saved in D:\Program Files\AppServer\wstemp\0\workspace\cells\Dom0\applications\DeliveryDashboard.ear\DeliveryDashboard.ear

ADMA5011I: Cleanup of temp dir for app DeliveryDashboard done.

ADMA5013I: Application DeliveryDashboard installed successfully.

Application DeliveryDashboard installed successfully.

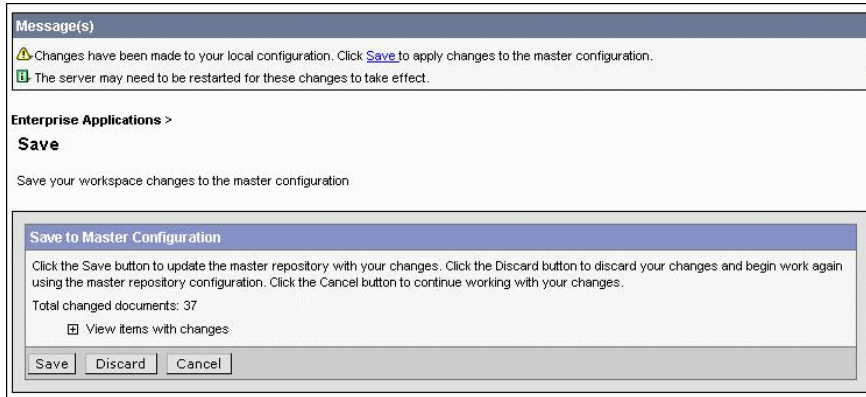
If you want to start the application, you must first save changes to the master configuration.

[Save to Master Configuration](#)

If you want to work with installed applications, then click [Manage Applications](#).

When the installation is complete, the **Application DeliveryDashboard installed successfully** message is displayed.

- 9 Click the **Save to Master Configuration** link. The Enterprise Applications page displays the local configuration messages.



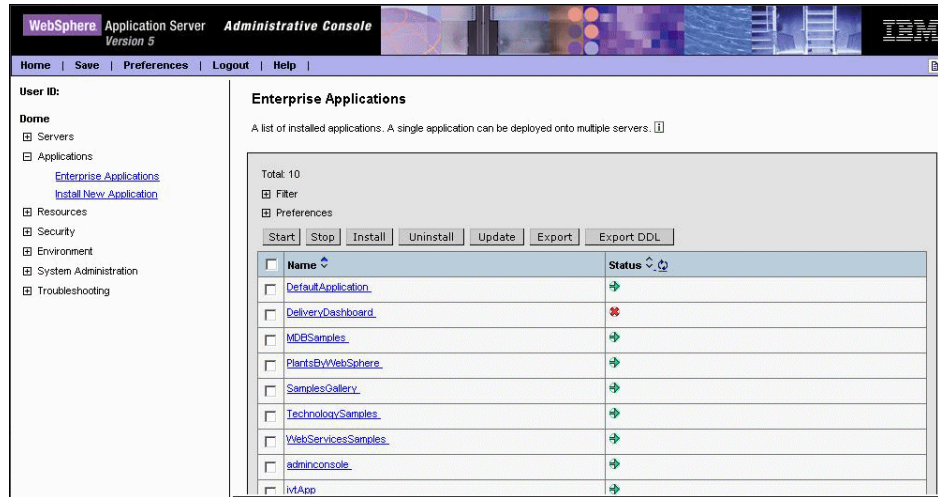
- 10 Click the **Save** button to save your changes to the master configuration.

## Specifying Configuration Values on WebSphere 5.1.1.8

You specify configuration values for deploying the Dashboard application from the WebSphere Administrative Console.

To specify configuration values:

- 1 In the navigation tree on the left, choose **Applications > Enterprise Applications**.



The screenshot shows the WebSphere Administrative Console interface. The top navigation bar includes 'WebSphere Application Server Administrative Console Version 5' and 'Home | Save | Preferences | Logout | Help'. The left sidebar shows a navigation tree with 'Enterprise Applications' selected. The main content area is titled 'Enterprise Applications' and contains a table of installed applications.

Total 10

Filter

Preferences

Start Stop Install Uninstall Update Export Export DDL

Name	Status
DefaultApplication	→
DeliveryDashboard	✖
MDBSamples	→
PlantsByWebSphere	→
SamplesGallery	→
TechnologySamples	→
WebServicesSamples	→
adminconsole	→
IVApp	→

**2** Click the **DeliveryDashboard** link, and select the **Configuration** tab.

Enable Distribution	<input checked="" type="checkbox"/>	Specifies whether the application will be distributed automatically to other nodes on the cell. The default is for automatic distribution.
Classloader Mode	<input checked="" type="checkbox"/> PARENT_LAST	Specifies whether classes are loaded via the parent classloader before this one.
WAR Classloader Policy	<input checked="" type="checkbox"/> Module	Defines whether there is a single classloader for all WARs in the application or a classloader per WAR in the application.
Create MBeans For Resources	<input checked="" type="checkbox"/>	Create MBeans For Resources
Reload Enabled	<input type="checkbox"/>	Specifies if class reloading is enabled for application files when they get updated.
Reload Interval	3	The timeperiod (in seconds) in which the application's filesystem will be scanned for updated files.
<input type="button" value="Apply"/> <input type="button" value="OK"/> <input type="button" value="Reset"/> <input type="button" value="Cancel"/>		
<b>Additional Properties</b>		
<a href="#">Target Mappings</a>	The mapping of this deployed object (Application or Module) into a target environment (server, cluster, cluster member)	
<a href="#">Libraries</a>	A list of library references which specify the usage of global libraries.	
<a href="#">Session Management</a>	Session Manager properties specific to this Application	
<a href="#">Provide HTTP endpoint URL information</a>	Provide Web services endpoint URL information for SOAP/HTTP bindings	

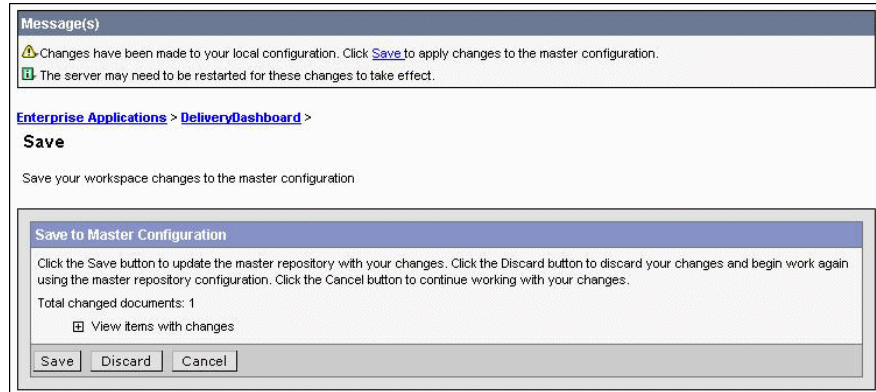
- In the **Classloader Mode** box, select **PARENT\_LAST** from the drop-down list.
- In the **WAR Classloader Policy** box, select **Module** from the drop-down list.

**3** In the **Additional Properties** table, click the **Session Management** link.

Overwrite Session Management	<input checked="" type="checkbox"/> Overwrite	Specifies whether this SessionManager settings are to be used for the current module. Default is to use Session Manager settings defined on parent object.
Session tracking mechanism:	<input type="checkbox"/> Enable SSL ID tracking <input checked="" type="checkbox"/> <a href="#">Enable Cookies</a> <input checked="" type="checkbox"/> Enable URL Rewriting <input type="checkbox"/> Enable protocol switch rewriting	Specify a mechanism for HTTP session management.
Overflow:	<input checked="" type="checkbox"/> Allow overflow	Whether to allow the number of sessions in memory to exceed the value specified by Max In Memory Session Count property. This is valid only in non-persistent sessions mode.
Maximum in memory session count:	***	Specifies the maximum number of sessions

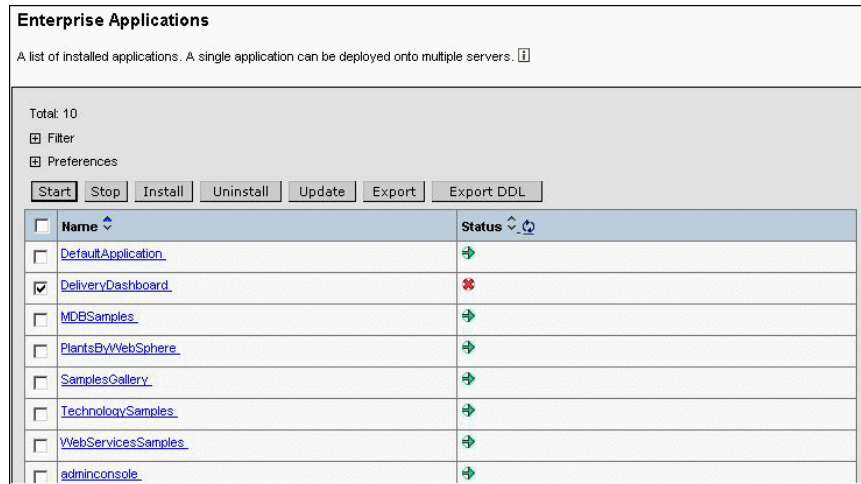
- In the **Overwrite Session Management** box, select the **Overwrite** check box.
- In the **Session Tracking Mechanism** box, select the **Enable URL Rewriting** check box.

- Click **OK**. The Enterprise Applications page displays the local configuration messages.



Click the **Save** link to apply the changes to the master configuration.

- Click the **Save** button to update the master repository with your changes. A list of the installed applications is displayed.



- Select the **DeliveryDashboard** check box, and click **Start** to deploy the Dashboard application. Deployment is complete.

## Deploying the Dashboard Application on WebSphere 6.1

After you have installed Dashboard (see Chapter 2, “Setting Up Dashboard”), you must deploy the Dashboard application. You deploy the Dashboard application from the Applications page of the WebSphere Administrative Console.

**To deploy the Dashboard application:**

- 1 In the navigation tree on the left, choose **Applications > Install New Application**. The Preparing for the Application Installation page opens.

Enterprise Applications Close page

**Preparing for the application installation** ?

Specify the EAR, WAR, JAR, or SAR module to upload and install.

**Path to the new application**

Local file system

Full path

Remote file system

Full path

Context root  Used only for standalone Web modules (.war files) and SIP modules (.sar files)

**How do you want to install the application?**

Prompt me only when additional information is required.

Show me all installation options and parameters.

**Help**

**Field help**  
Local file system path

**Page help**  
[More information about this page](#)

- 2 Insert the **DeliveryDashboard.ear** path in the **Full Path** edit box.  
Select the **Show me all installation options and parameters** radio button.

- 3 Click **Next**. The Preparing for the Application Installation page displays options to generate default bindings and mappings.

Enterprise Applications Close page

**Preparing for the application installation** ?

Choose to generate default bindings and mappings.

Generate Default Bindings

**Override:**

Do not override existing bindings

Override existing bindings

**Virtual Host**

Do not use default virtual host name for Web or SIP modules

Use default virtual host name for Web and SIP modules:

Host name  
default\_host

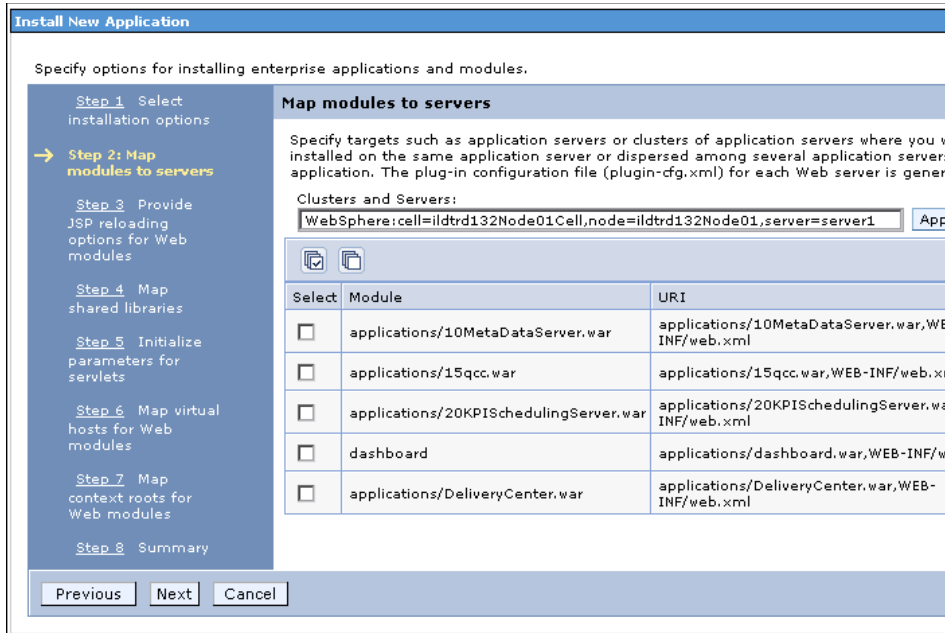
Specific bindings file  
 Browse...

Previous Next Cancel

Select the **Generate Default Bindings** check box and the **Use default virtual host name for Web and SIP modules** radio button.

- 4 Click **Next**. The Select Installation Options page opens. No changes are required in this page.

5 Click **Next**. The Map Modules to Servers page opens.



Click the **Select all items** button to select all the check boxes.

- 6 Click **Next**. The Provide JSP Reloading Options for Web Modules page opens. No changes are required in this page.
- 7 Click **Next**. The Map Shared Libraries page opens. No changes are required in this page.
- 8 Click **Next**. The Initialize Parameters for Servlets page opens. No changes are required in this page.



9 Click **Next**. The Map Virtual Hosts for Web Modules page opens.

**Install New Application**

Specify options for installing enterprise applications and modules.

**Step 1** Select installation options

**Step 2** Map modules to servers

**Step 3** Provide JSP reloading options for Web modules

**Step 4** Map shared libraries

**Step 5** Initialize parameters for servlets

→ **Step 6: Map virtual hosts for Web modules**

**Step 7** Map context roots for Web modules

**Step 8** Summary

**Map virtual hosts for Web modules**

Specify the virtual host where you want to install the Web modules that are contained in your application. You can install Web modules on the same virtual host or disperse them among several hosts.

Apply Multiple Mappings

Select	Web module	Virtual host
<input type="checkbox"/>	applications/10MetaDataServer.war	default_host
<input type="checkbox"/>	applications/15qcc.war	default_host
<input type="checkbox"/>	applications/20KPISchedulingServer.war	default_host
<input type="checkbox"/>	dashboard	default_host
<input type="checkbox"/>	applications/DeliveryCenter.war	default_host

Previous Next Cancel



Click the **Select all items** button to select all the check boxes.

10 Click **Next**. The Map Context Roots for Web Modules page opens. No changes are required in this page.

**11** Click **Next**. The Summary page opens.

**Install New Application**

Specify options for installing enterprise applications and modules.

[Step 1](#) Select installation options

[Step 2](#) Map modules to servers

[Step 3](#) Provide JSP reloading options for Web modules

[Step 4](#) Map shared libraries

[Step 5](#) Initialize parameters for servlets

[Step 6](#) Map virtual hosts for Web modules

[Step 7](#) Map context roots for Web modules

**→ Step 8: Summary**

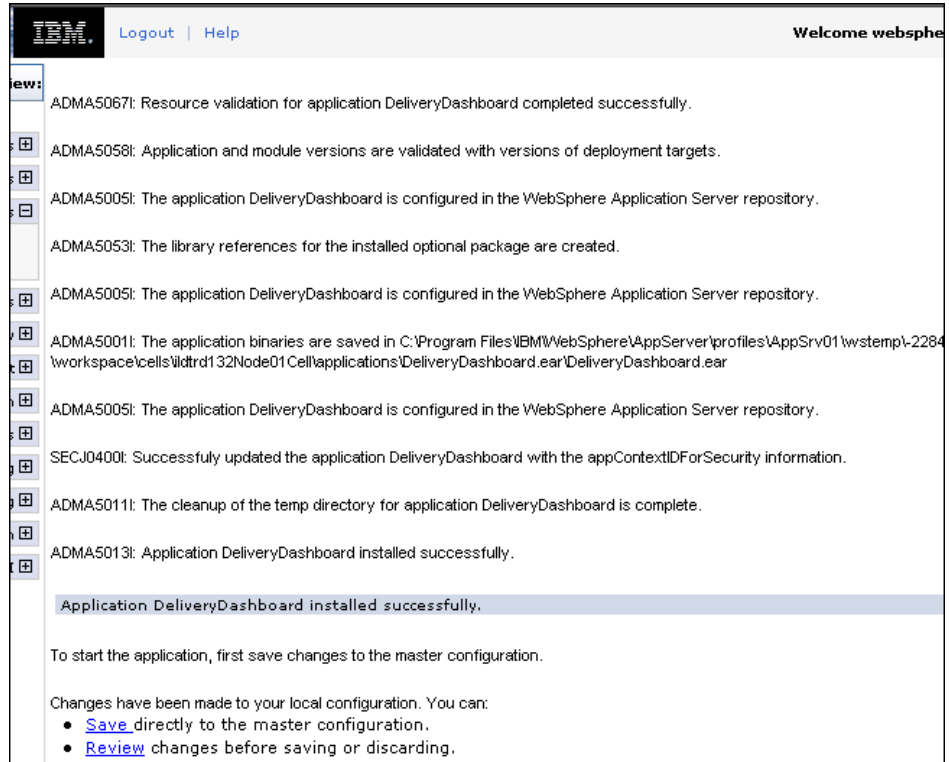
**Summary**

Summary of installation options

Options	Values
Precompile JavaServer Pages files	No
Directory to install application	
Distribute application	Yes
Use Binary Configuration	No
Deploy enterprise beans	No
Application name	DeliveryDashboard
Create MBeans for resources	Yes
Enable class reloading	No
Reload interval in seconds	
Deploy Web services	No
Validate Input off/warn/fail	warn
Process embedded configuration	No
File Permission	.*\,dll=755#.*\,so=755#.*\,a=755#.*
Application Build ID	Unknown
Allow dispatching includes to remote resources	No
Allow servicing includes from remote resources	No
Cell/Node/Server	<a href="#">Click here</a>

Previous
Finish
Cancel

- 12** Click **Finish**. The installation begins. A page opens indicating the progress of the installation.



When the installation is complete, the **Application DeliveryDashboard installed successfully** message is displayed.

- 13** Click the **Save** link. The installation returns to the Preparing for the Application Installation page. Close the browser window.

## Specifying Configuration Values on WebSphere 6.1

After you deploy Dashboard, you must configure the application. Configuration is done through the following procedures:

- ▶ Session Management configuration
- ▶ Class Loader Order configuration

### Session Management Configuration

You configure the session management from the Applications page of the WebSphere Administrative Console.

**To configure the session management:**

- 1 In the navigation tree on the left, choose **Applications > Enterprise Applications**. The Enterprise Applications page opens.

Select	Name	Application Status
<input type="checkbox"/>	<a href="#">DefaultApplication</a>	➔
<input type="checkbox"/>	<a href="#">DeliveryDashboard</a>	✖
<input type="checkbox"/>	<a href="#">ivtApp</a>	➔
<input type="checkbox"/>	<a href="#">query</a>	➔

Total 4

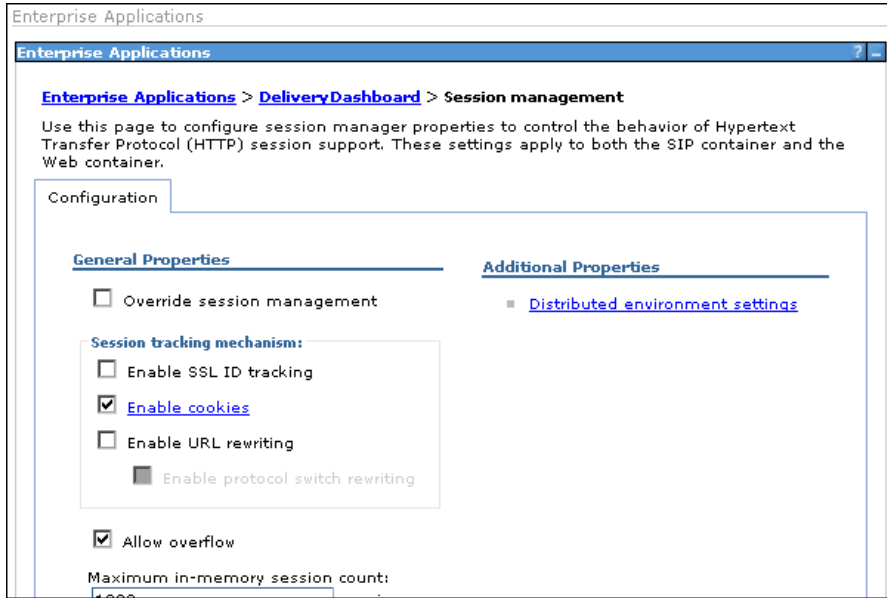
- 2 Click the **DeliveryDashboard** link. The **Configuration** tab of the Enterprise Applications page opens.

The screenshot shows the 'Enterprise Applications' configuration page for 'DeliveryDashboard'. The page is titled 'Enterprise Applications > DeliveryDashboard' and includes a brief instruction: 'Use this page to configure an enterprise application. Click the links to access pages for further configuring of the application or its modules.' The 'Configuration' tab is active, and the page is divided into several sections:

- General Properties:** Contains a text field for 'Name' with the value 'DeliveryDashboard' and a dropdown for 'Application reference validation' set to 'Issue warnings'.
- Detail Properties:** A list of links for configuring various application details, including 'Target specific application status', 'Startup behavior', 'Application binaries', 'Class loading and update detection', 'Remote request dispatcher properties', 'View Deployment Descriptor', and 'Last participant support extension'.
- References:** A link for 'Shared library references'.
- Modules:** A link for 'Manage Modules'.
- Web Module Properties:** A list of links for configuring web modules, including 'Session management', 'Context Root For Web Modules', 'Initialize parameters for servlets', 'JSP reload options for web modules', and 'Virtual hosts'.

At the bottom of the page, there are four buttons: 'Apply', 'OK', 'Reset', and 'Cancel'.

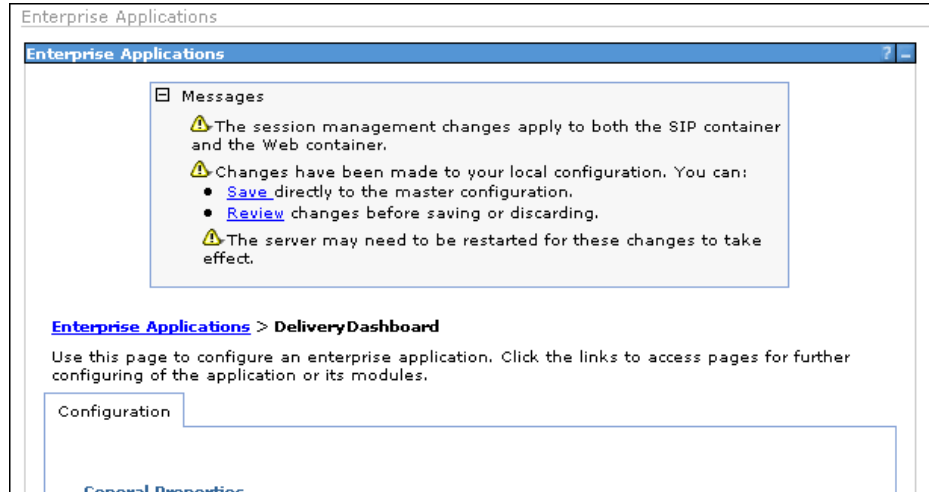
- 3 Click the **Session management** link. The **Configuration** tab of the Enterprise Applications page displays the session management options.



Select the **Override session management** check box.

Select the **Enable URL rewriting** check box.

- 4 Click **OK**. The **Configuration** tab of the Enterprise Applications page displays the session management messages.



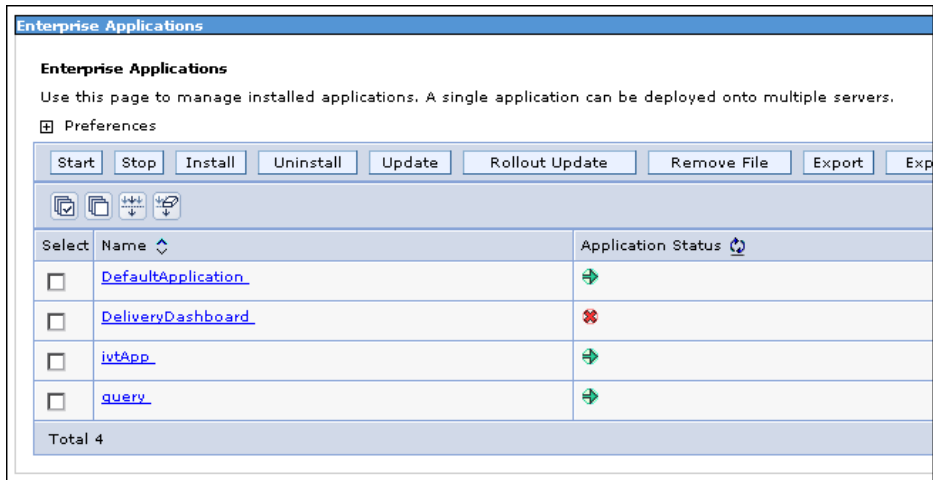
- 5 Click the **Save** link.

## Class Loader Order Configuration

You configure the Class Loader Order from the Applications page of the WebSphere Administrative Console.

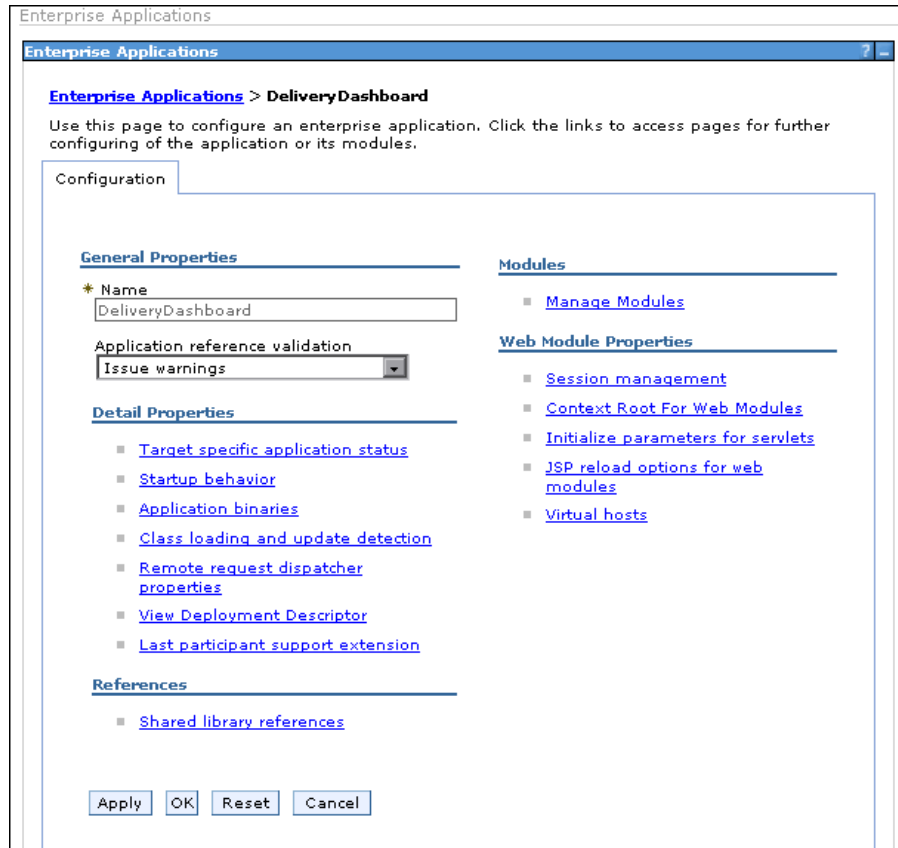
To configure the Class Loader Order:

- 1 In the navigation tree on the left, choose **Applications > Enterprise Applications**. The Enterprise Applications page opens.





- 2 Click the **DeliveryDashboard** link. The **Configuration** tab of the Enterprise Applications page opens.



**3** Click the **Manage modules** link. The Manage Modules page opens.

**Enterprise Applications**

[Enterprise Applications](#) > [DeliveryDashboard](#) > **Manage Modules**

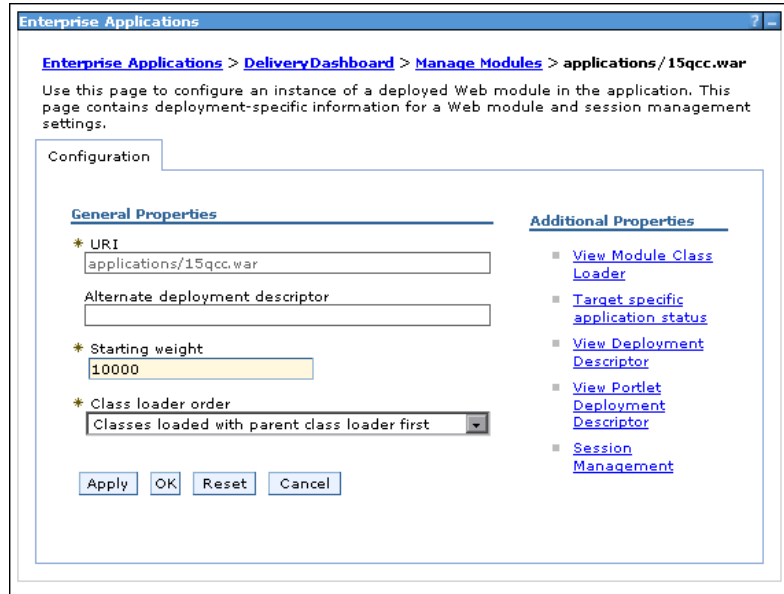
Manage Modules

Specify targets such as application servers or clusters of application servers where you want to install the modules that same application server or dispersed among several application servers. Also, specify the Web servers as targets that configuration file (plugin-cfg.xml) for each Web server is generated, based on the applications that are routed through

Clusters and Servers:

Select	Module	URI	Module Type	Server
<input type="checkbox"/>	<a href="#">applications/10MetaDataServer.war</a>	applications/10MetaDataServer.war,WEB-INF/web.xml	Web Module	WebSphere
<input type="checkbox"/>	<a href="#">applications/15qcc.war</a>	applications/15qcc.war,WEB-INF/web.xml	Web Module	WebSphere
<input type="checkbox"/>	<a href="#">applications/20KPIschedulingServer.war</a>	applications/20KPIschedulingServer.war,WEB-INF/web.xml	Web Module	WebSphere
<input type="checkbox"/>	<a href="#">dashboard</a>	applications/dashboard.war,WEB-INF/web.xml	Web Module	WebSphere
<input type="checkbox"/>	<a href="#">applications/DeliveryCenter.war</a>	applications/DeliveryCenter.war,WEB-INF/web.xml	Web Module	WebSphere

- 4 Click on the **applications/15qcc.war** link. The Configuration tab for 15/qcc.war opens.



- 5 In the **Class loader order** drop-down list, select **Classes loaded with application class loader first**.

6 Click **OK**. The **Manage Modules** page displays the configuration messages.

**Enterprise Applications**

Messages

- ⚠ Changes have been made to your local configuration. You can:
  - [Save](#) directly to the master configuration.
  - [Review](#) changes before saving or discarding.
- ⚠ The server may need to be restarted for these changes to take effect.

[Enterprise Applications](#) > [DeliveryDashboard](#) > **Manage Modules**

Manage Modules

Specify targets such as application servers or clusters of application servers where you want to install the modules. The same application server or dispersed among several application servers. Also, specify the Web servers as targets. The configuration file (plugin-cfg.xml) for each Web server is generated, based on the applications that are routed through the server.

Clusters and Servers:

Select	Module	URI	Module Type	Server
<input type="checkbox"/>	<a href="#">applications/10MetaDataServer.war</a>	applications/10MetaDataServer.war,WEB-INF/web.xml	Web Module	WebSphere
<input type="checkbox"/>	<a href="#">applications/15qcc.war</a>	applications/15qcc.war,WEB-INF/web.xml	Web Module	WebSphere

7 Click the **Save** link. The Manage Modules page opens.

Enterprise Applications

[Enterprise Applications](#) > [DeliveryDashboard](#) > Manage Modules

Manage Modules

Specify targets such as application servers or clusters of application servers where you want to install the modules that same application server or dispersed among several application servers. Also, specify the Web servers as targets that configuration file (plugin-cfg.xml) for each Web server is generated, based on the applications that are routed through

Clusters and Servers:

WebSphere:cell=ildtrd132Node01Cell,node=ildtrd132Node01,server=server1

Select	Module	URI	Module Type	Server
<input type="checkbox"/>	<a href="#">applications/10MetaDataServer.war</a>	applications/10MetaDataServer.war,WEB-INF/web.xml	Web Module	WebSphere
<input type="checkbox"/>	<a href="#">applications/15qcc.war</a>	applications/15qcc.war,WEB-INF/web.xml	Web Module	WebSphere
<input type="checkbox"/>	<a href="#">applications/20KPISchedulingServer.war</a>	applications/20KPISchedulingServer.war,WEB-INF/web.xml	Web Module	WebSphere
<input type="checkbox"/>	<a href="#">dashboard</a>	applications/dashboard.war,WEB-INF/web.xml	Web Module	WebSphere
<input type="checkbox"/>	<a href="#">applications/DeliveryCenter.war</a>	applications/DeliveryCenter.war,WEB-INF/web.xml	Web Module	WebSphere

8 Click **OK**. The **Manage Modules** page displays the configuration messages.

Enterprise Applications

Messages

- ⚠ Changes have been made to your local configuration. You can:
  - [Save](#) directly to the master configuration.
  - [Review](#) changes before saving or discarding.
- ⚠ The server may need to be restarted for these changes to take effect.

[Enterprise Applications](#) > [DeliveryDashboard](#)

Use this page to configure an enterprise application. Click the links to access pages for further configuring of the application modules.

Configuration

**General Properties**

\* Name:

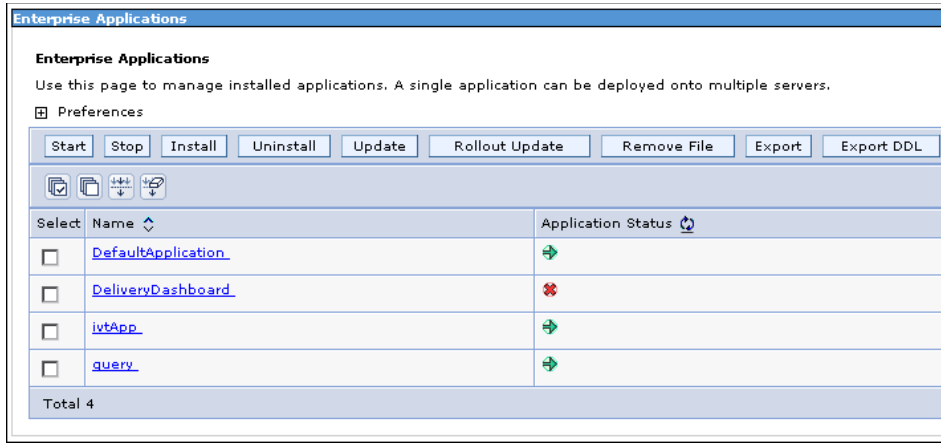
Application reference validation:

**Modules**

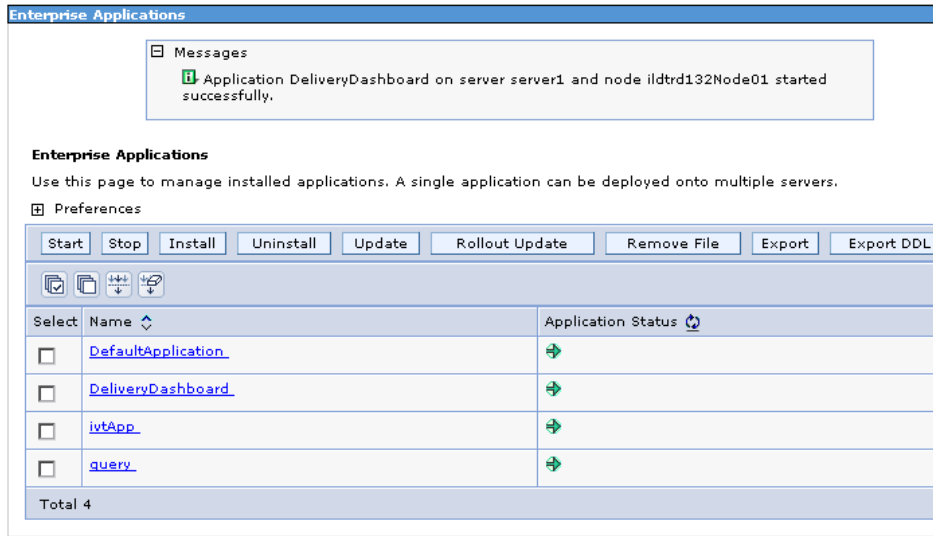
- Manage Modules

**Web Module Properties**

9 Click the **Save** link. The Enterprise Applications page opens.



10 Select the check box next to **DeliveryDashboard** and click the **Start** button. The Enterprise Applications page displays a message that DeliveryDashboard was started successfully.



Close the browser window.

# 5

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## Uninstalling Dashboard

You can uninstall Dashboard from your Web server. Note that after you uninstall, the Dashboard data is not deleted from the schema, and can be used in subsequent installations. To delete the Dashboard schema, contact your database administrator.

**This chapter includes:**

- Uninstalling Dashboard from Windows on page 79
- Uninstalling Dashboard from Linux, Solaris, or AIX on page 80

### Uninstalling Dashboard from Windows

This section describes how to uninstall Dashboard from your Windows server machine.

**To uninstall Dashboard from Windows:**

- 1** Choose **Start > Settings > Control Panel > Add/Remove Programs**. The Add/Remove Programs dialog box opens.
- 2** Select **HP Dashboard** and click **Change/Remove**.
- 3** The Welcome screen opens. Click **Next**.
- 4** The Uninstall Preview dialog box opens. Read the summary of features to be uninstalled, and click **Next**.
- 5** The Delete Files dialog box opens. Click **Yes** if you want to delete files such as log files, source files and so on, and then click **Next**.

- 6 Depending on your operating system and system configuration, the Reboot dialog box may open. Click **Yes, restart my computer**, and then click **Finish**.  
The uninstall procedure is complete, and Dashboard is removed from the server.

## Uninstalling Dashboard from Linux, Solaris, or AIX

This section describes how to uninstall Dashboard from your Linux, Solaris, or AIX server machine.

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**Note:** To uninstall Dashboard, you should use the same user login that installed Dashboard.

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### To uninstall Dashboard from Linux, Solaris, or AIX:

- 1 Make sure that the application server is running.
- 2 Type the following command at the system prompt:  
`/[directory]/[Dashboard_directory]/_uninst/uninstall.bin`  
The HP Dashboard Uninstall wizard opens.  
Click **Next**. Follow the instructions on your screen.