

HP Business Process Testing for SAP Applications

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Installation Guide

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This manual's title page contains the following identifying information:

- Software version number, which indicates the software version
- Document release date, which changes each time the document is updated
- Software release date, which indicates the release date of this version of the software

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- Review information about available services
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Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract. To find more information about access levels, go to: **http://h20230.www2.hp.com/new_access_levels.jsp**

To register for an HP Passport ID, go to: **<http://h20229.www2.hp.com/passport-registration.html>**

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Table of Contents

Welcome to This Guide

Welcome to the HP Business Process Testing Enterprise Extension. The Enterprise Extension adds functionality to HP Quality Center and HP Business Process Testing that enables you to test enterprise applications.

How This Guide is Organized

The HP Business Process Testing Enterprise Extension Installation Guide describes how to install, set up, and configure the Enterprise Extension.

It contains the following chapters:

Chapter 1 **Installing the Enterprise Extension**

Describes the requirements for installing the Enterprise Extension and how to install the Enterprise Extension on your Quality Center server machine.

Chapter 2 **Setting Up the Enterprise Extension**

Describes how to set up your Quality Center projects for working with the Enterprise Extension, how to configure your SAP applications, and how to configure Quality Center permissions for the Enterprise Extension.

Additional Online Resources

Mercury Tours sample Web site is the basis for many examples in this guide. The URL for this Web site is newtours.demoaut.com.

Knowledge Base opens directly to the Knowledge Base landing page on the Mercury Customer Support Web site. Choose **Help > Knowledge Base**. The URL for this Web site is support.mercury.com/cgi-bin/portal/CSO/kbBrowse.jsp.

Customer Support Web site accesses the HP Software Support Web site. This site enables you to browse the Support Knowledge Base and add your own articles. You can also post to and search user discussion forums, submit support requests, download patches and updated documentation, and more. Choose **Help > Customer Support Web site**. The URL for this Web site is www.hp.com/go/hpssoftwaresupport.

Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract.

To find more information about access levels, go to:
http://h20230.www2.hp.com/new_access_levels.jsp

To register for an HP Passport user ID, go to:
<http://h20229.www2.hp.com/passport-registration.html>

Send Feedback enables you to send online feedback about **QuickTest Professional** to the product team. Choose **Help > Send Feedback**.

HP Software Web site accesses the HP Software Web site. This site provides you with the most up-to-date information on HP Software products. This includes new software releases, seminars and trade shows, customer support, and more. Choose **Help > HP Software Web site**. The URL for this Web site is www.hp.com/go/software.

Typographical Conventions

This guide uses the following typographical conventions:

UI Elements and Function Names	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 Save button.” It also indicates method or function names. For example, “The wait_window 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> .”
<Replace Value>	Angle brackets enclose a part of a file path or URL address that should be replaced with an actual value. For example, <MyProduct installation folder>\bin.
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.

Welcome to This Guide

1

Installing the Enterprise Extension

This chapter describes how to install the Enterprise Extension.

This chapter includes:

- ▶ The Installation and Setup Process on page 11
- ▶ Requirements for the Enterprise Extension on page 12
- ▶ Installing the Enterprise Extension on page 13
- ▶ Uninstalling the Enterprise Extension on page 25

The Installation and Setup Process

This section summarizes the Enterprise Extension installation and setup process.

To install and set up the Enterprise Extension:

1 Ensure that your system meets the minimum requirements.

For more information on the minimum requirements for installing the Enterprise Extension, see “Requirements for the Enterprise Extension” on page 12.

2 Install Quality Center 9.2 Patch 7 or later on your server machine.

Download Quality Center 9.2 patch 7 or later from the Customer Support Web site and install it on your Quality Center server machine.

3 Install the Enterprise Extension on your server machine.

For more information on installing the Enterprise Extension, see “Installing the Enterprise Extension” on page 13.

4 Load the Enterprise Extension licence on your Quality Center server.

For more information, see “Loading the Enterprise Extension License” on page 34.

5 Enable the Enterprise Extension in Quality Center Site Administration for every project that requires the Enterprise Extension.

For more information, see “Enabling the Enterprise Extension” on page 35.

6 Install the SAP Application Importer Component on each client machine.

The Application Model module is installed automatically when you install the Enterprise Extension. To import application entities from your SAP application to the Application Model module, the SAP Application Importer Component must be installed on each client machine from which you want to import application entities. For more information on installing the SAP Application Importer Component, see “Installing the SAP Application Importer Component” on page 37.

Requirements for the Enterprise Extension

To use the Enterprise Extension, your system must satisfy the requirements for Business Process Testing. For more information on the system requirements for Business Process Testing, refer to the *HP Business Process Testing User's Guide*.

You must also have the required Quality Center Patch installed on your Quality Center server machine. For more details on the required patch, see the Business Process Testing Enterprise Extension readme.

In addition, to learn flows automatically, you must satisfy the following requirements:

- ▶ HP QuickTest Professional 9.5
- ▶ HP QuickTest Professional Add-in for SAP Solutions
- ▶ HP QuickTest Professional 9.5 Add-in for Business Process Testing
- ▶ SAP R/3 4.6C, R/3 Enterprise 4.70, ECC 5.0, or ECC 6.0
- ▶ SAP GUI 6.20, 6.40, or 7.10

Installing the Enterprise Extension

This section describes how to install the Enterprise Extension on your Quality Center server machine.

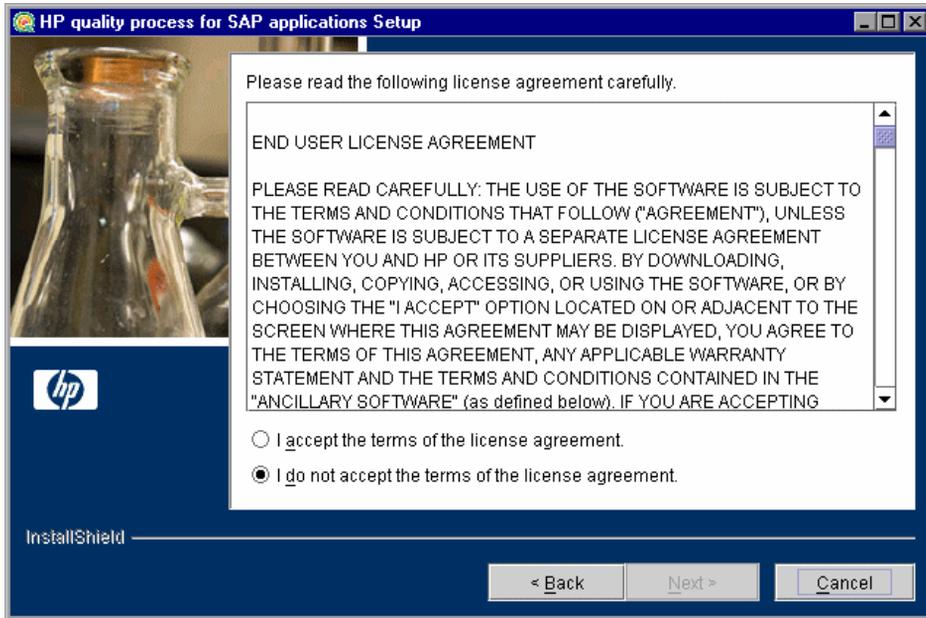
To install the Enterprise Extension:

- 1 From your Enterprise Extension CD, run the appropriate installation file.

Platform	To install:
Windows	Run the <code>setup_win.exe</code> file.
Solaris or Linux (console mode)	<ul style="list-style-type: none"> ▶ To install on a Solaris platform, type: <code>./setup_solaris.bin -console</code> ▶ To install on a Linux platform, type: <code>./setup_linux.bin -console</code>
Solaris or Linux (UI mode)	<p>Make sure that the DISPLAY environment variable is properly configured on the Quality Center host machine, and that the machine from which you are installing is running an X-server (for example, Exceed).</p> <ul style="list-style-type: none"> ▶ To install on a Solaris platform, type: <code>./setup_solaris.bin</code> ▶ To install on a Linux platform, type: <code>./setup_linux.bin</code>

- 2 The Welcome dialog box opens. Click **Next**.

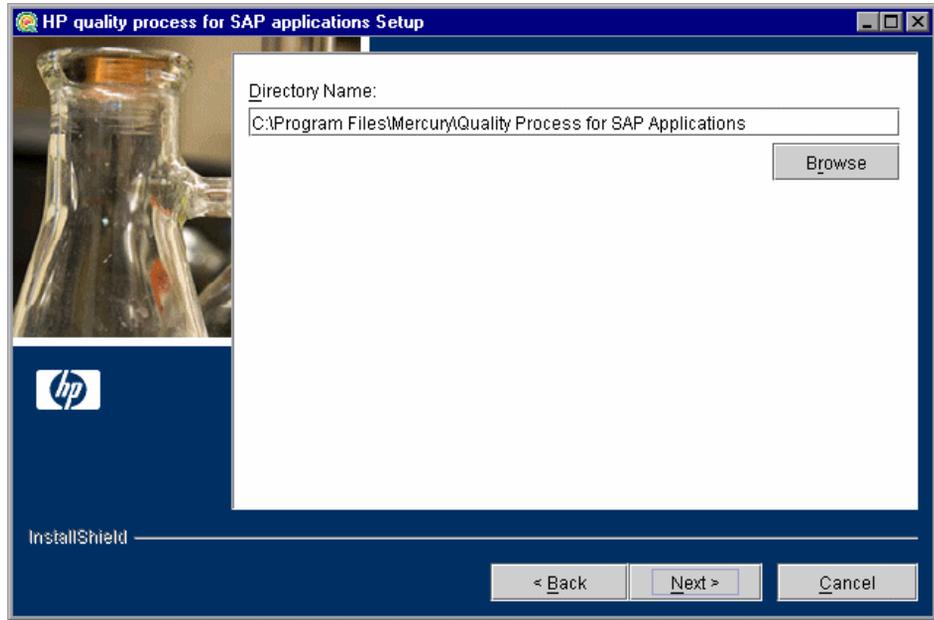
3 The License Agreement dialog box opens.



Read the license agreement. To accept the terms of the license agreement, select **I accept the terms of the license agreement**.

Click **Next**.

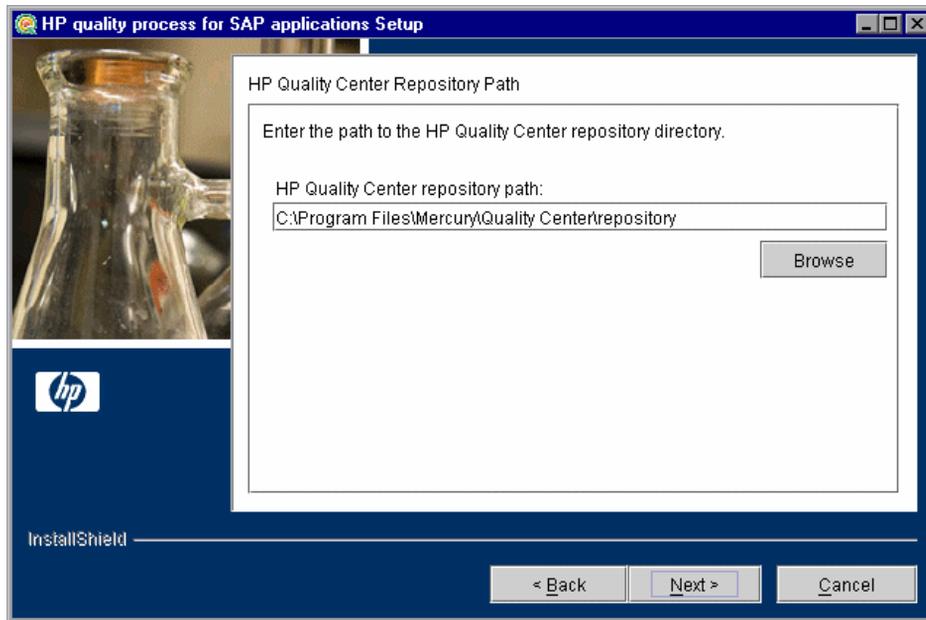
4 The Directory Name dialog box opens.



Accept the proposed folder for the Enterprise Extension installation or browse for an alternate folder.

Click **Next**.

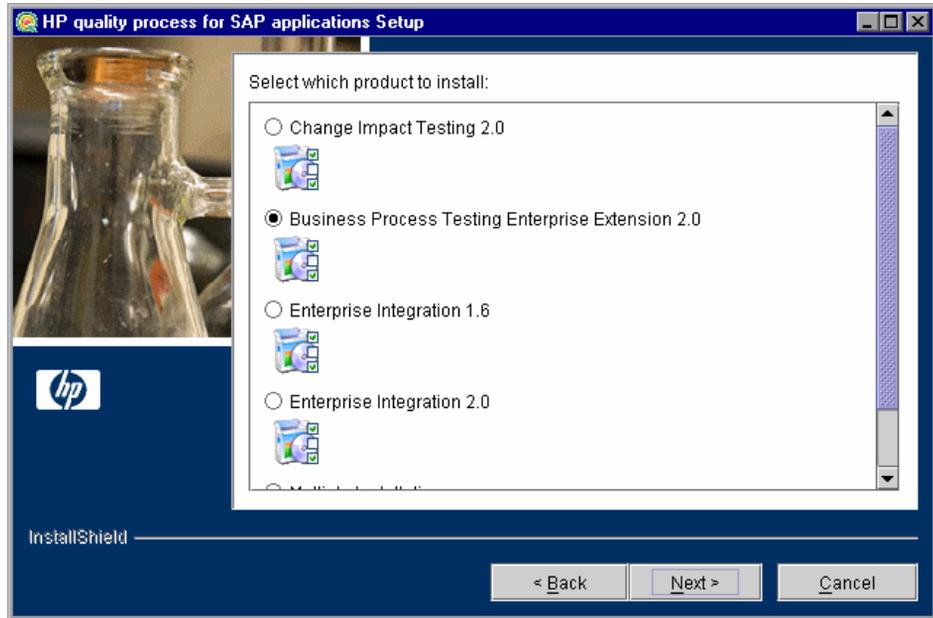
5 The HP Quality Center Repository Path dialog box opens.



Type the location of the Quality Center repository.

Click **Next**.

6 The Select Which Product to Install dialog box opens.



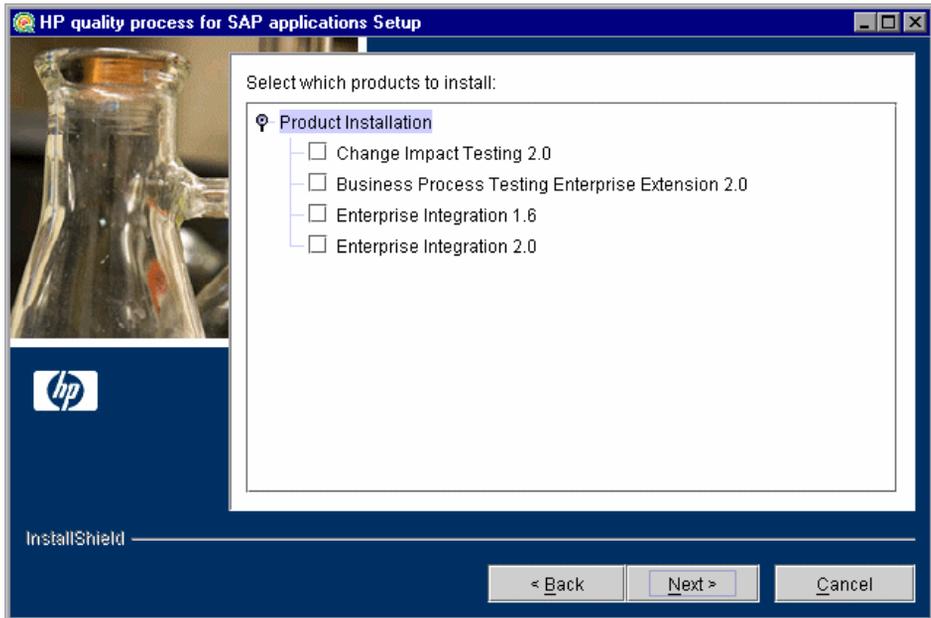
Select whether to install only the Enterprise Extension or the Enterprise Extension together with other Quality Center extensions:

- To install only the Enterprise Extension, select **Business Process Testing Enterprise Extension 2.0**.
- To install the Enterprise Extension together with other Quality Center extensions, select **Multiple Installations**.

Click **Next**.

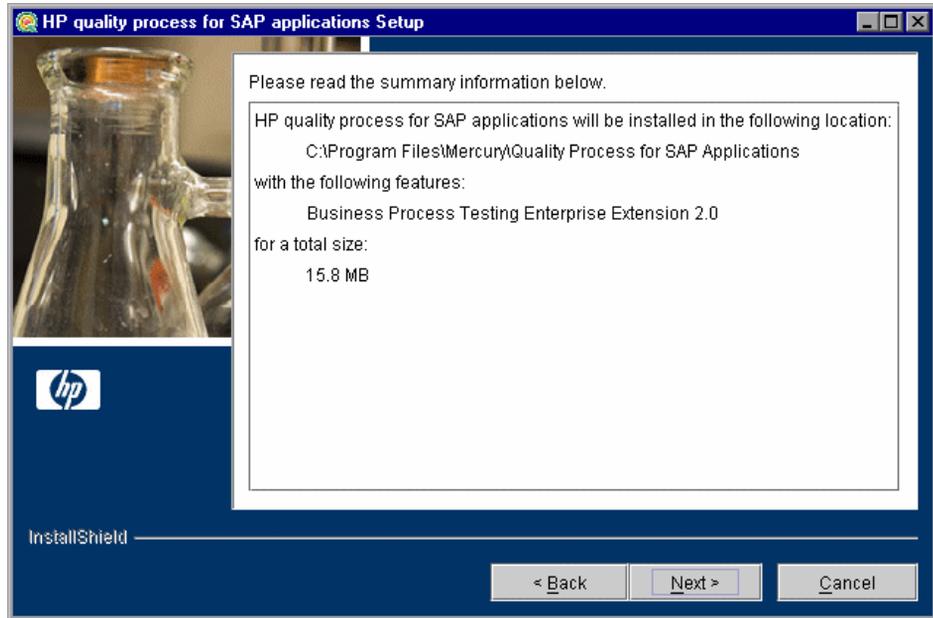
7 If you chose to install only the Enterprise Extension, proceed to step 8.

If you chose **Multiple Installations**, the Select Which Products to Install dialog box opens.



Select the extensions that you want to install and click **Next**. For information on other extensions, refer to the documentation for the relevant extension.

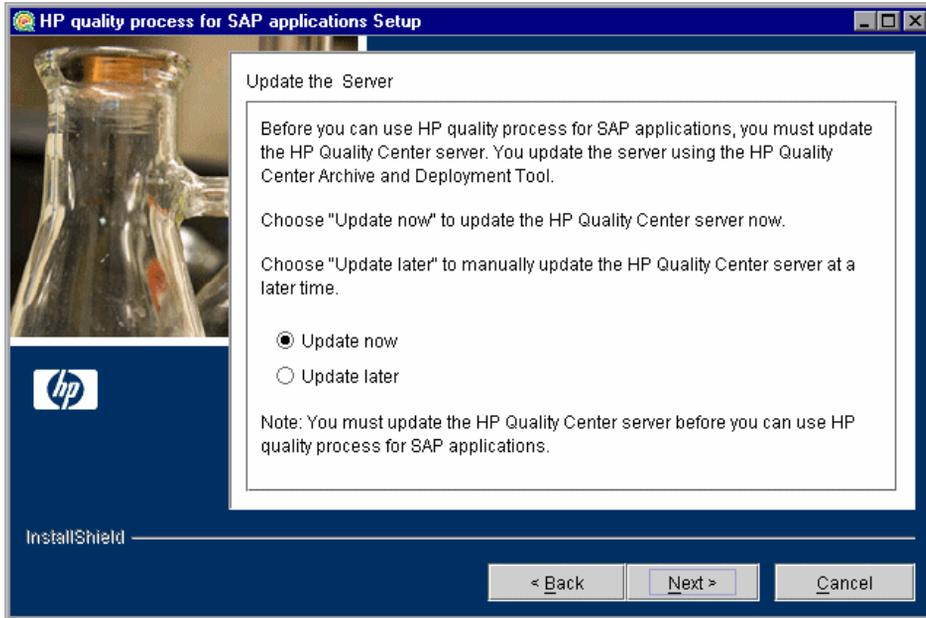
8 The Installation Summary dialog box opens.



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

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

- 9 When the installation process completes, the Update the Server dialog box opens.



When you update the Quality Center server, the Enterprise Extension files are copied into the opened archive directories (**qcbn.war** and **sabin.war**) in the <Quality Center Installation>\application directory. Then Quality Center Archive and Deployment Tool runs. This tool enables you to update the running Quality Center Web server.

Select an update option:

- ▶ **Update now.** Automatically updates the Quality Center archive files and runs the deployment tool.
- ▶ **Update later.** Enables you to manually update the Quality Center server at a later time. You must update the Quality Center server before you can use the Enterprise Extension.

Click **Next**.

- 10** If you selected **Update now**, proceed to step 11.

If you selected **Update later**, click **Next** and then click **Finish** to close the installation setup dialog box. When you are ready to update the application server, run the **deploy.bat** script (or **deploy.sh** for Solaris or Linux) from the **<Enterprise Extension installation>** directory. When running the batch file, specify the Quality Center installation directory and the location of the Quality Center repository, using the format:

```
deploy <Quality Center installation directory> <Quality Center repository
directory>
```

For example:

```
deploy "C:\Program Files\Mercury\Quality Center" "C:\Program
Files\Mercury\Quality Center\repository"
```

- 11** After clicking **Update now** or manually launching the batch file, the Quality Center Archive and Deployment Tool opens.

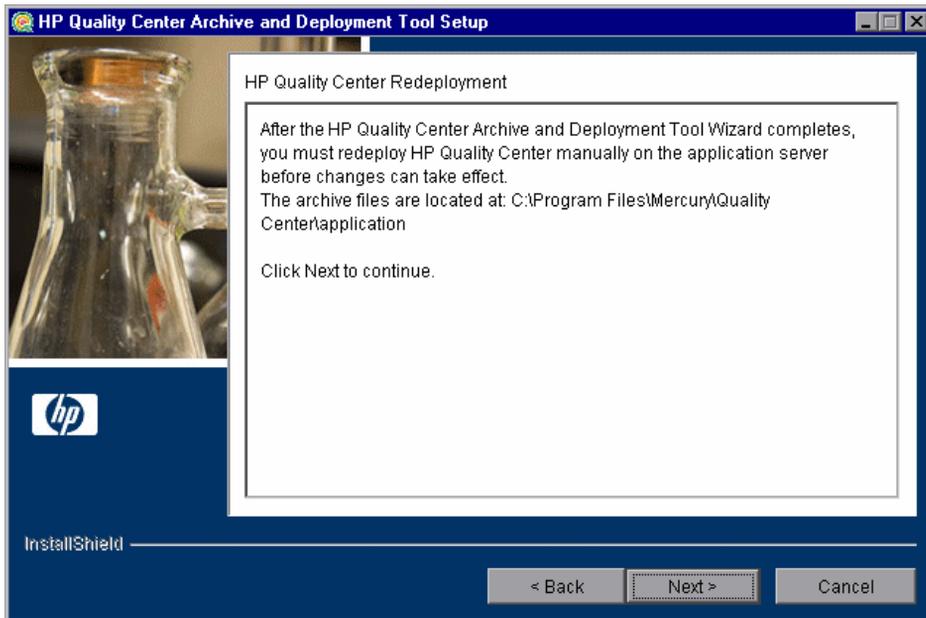


For the Enterprise Extension to work with Quality Center, you need to create a new archive and redeploy the **qcbn.war** and **sabin.war** files on the application server. This enables changes to the archive files to take effect. Note that it takes more time to create **qcbn.war** than **sabin.war**.

Click **Next** to create the new archive files.

- 12** If your application server is JBoss, proceed to step 13.

If your application server is WebSphere or WebLogic, the following dialog box opens.



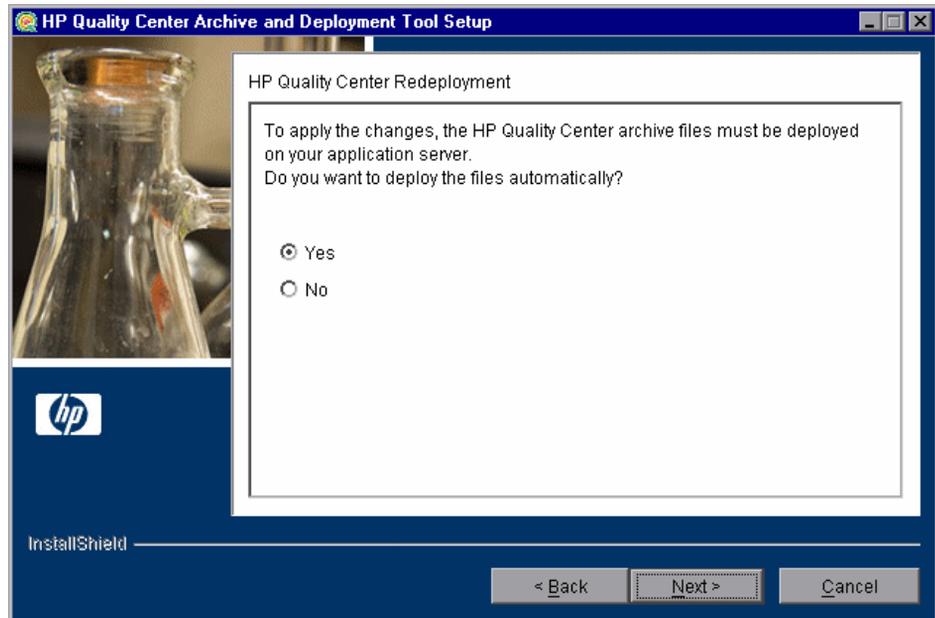
You must deploy Quality Center manually on the application server after the setup process completes. The location of the archive files is shown in the dialog box.

The updated archive files are stored in different formats, although the content is the same. The files are stored openly in the **10sabin.war** and **20qcbin.war** folders, and as closed archives in **sabin.war** and **qcbin.war**.

Note: For more information on manually deploying Quality Center on an application server, refer to the *HP Quality Center Installation Guide*.

Click **Next** and proceed to step 15.

- 13** If your application server is WebSphere or WebLogic, proceed to step 15. If your application server is JBoss, the HP Quality Center Redeployment dialog box opens.

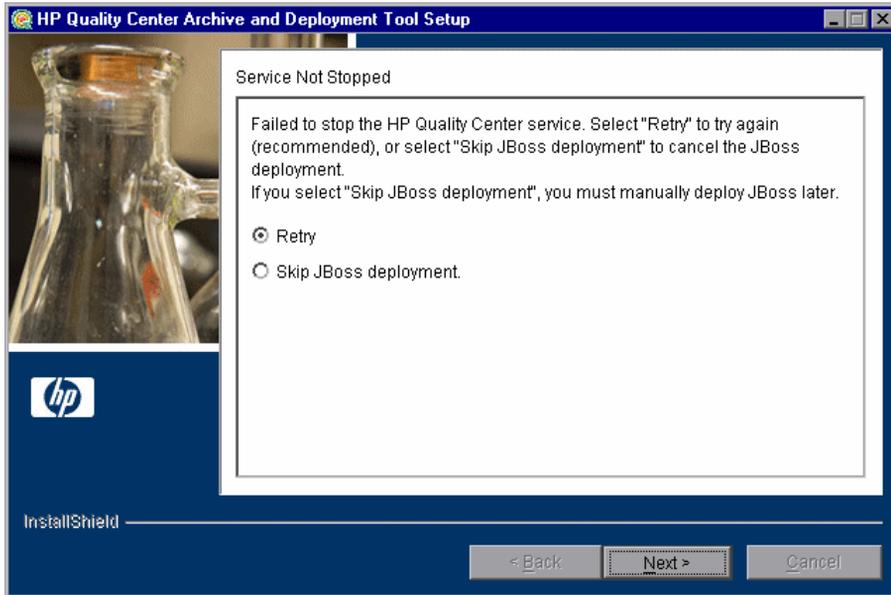


Choose one of the following options:

- **Yes.** Deploys the archive files automatically.
- **No.** Indicates that you will deploy the archive files later.

Click **Next**.

- 14** If the Quality Center service is running, the Archive and Deployment Tool automatically attempts to stop the service. If the tool is unable to stop the service, the Service Not Stopped dialog box opens.



Choose one of the following options:

- ▶ **Retry.** Instructs the setup program to try to stop the JBoss service again.
- ▶ **Skip JBoss deployment.** Instructs the setup program to cancel deployment. You should manually deploy JBoss later.

Click **Next**.

- 15** When the deployment is complete, the Completion dialog box opens. Click **Finish** to close the Quality Center Archive and Deployment Tool.

Note: If you manually deployed the archive files on your application server, you must restart Quality Center after deployment.

- 16** Click **Finish** to close the HP quality process for SAP applications Setup dialog box.

Uninstalling the Enterprise Extension

This section describes how to uninstall the Enterprise Extension from your Windows, Solaris, or Linux server machine. When you uninstall the Enterprise Extension, the Enterprise Extension files are deleted from your Quality Center server.

Note: If you installed more than one extension when installing the Enterprise Extension (see step 6 on page 17), all extensions are uninstalled.

This section includes the following topics:

- Uninstalling the Enterprise Extension from Windows
- Uninstalling the Enterprise Extension from Linux or Solaris

Uninstalling the Enterprise Extension from Windows

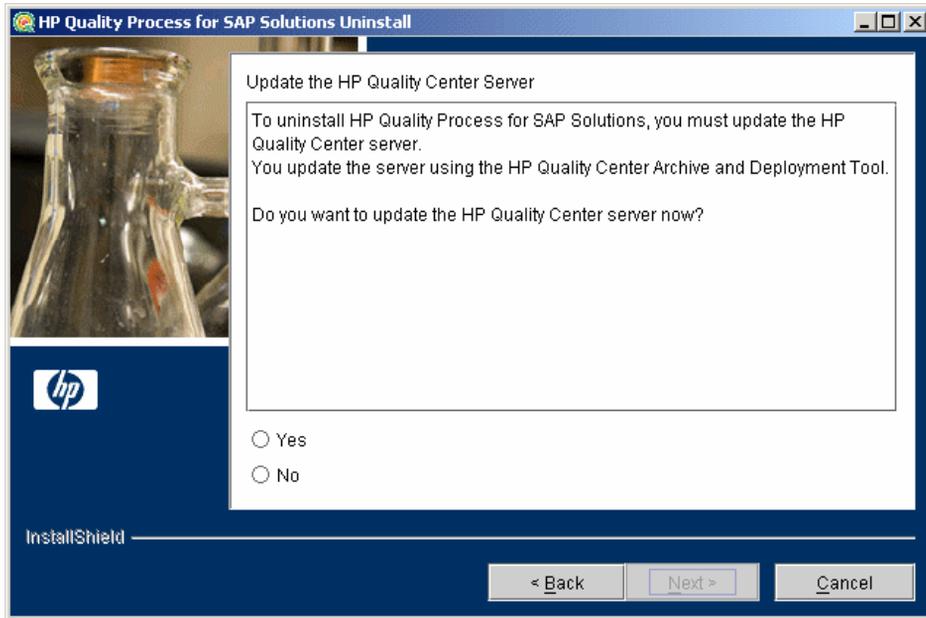
This section describes how to uninstall the Enterprise Extension from a Windows machine.

To uninstall the Enterprise Extension from Windows:

- 1** Make sure that the application server is running.
- 2** To open the HP Quality Process for SAP Solutions Uninstall dialog box, you can:
 - Choose **Start > Settings > Control Panel > Add/Remove Programs**, select **HP Quality Process for SAP Solutions**, and click the **Change/Remove** button. Follow the instructions on your screen.
 - Locate the Enterprise Extension home directory. By default, the files are stored in [drive]:\Program Files\Mercury\Quality Process for SAP Solutions. In the **_uninst** subdirectory, double-click **uninstall.exe**.

The HP Quality Process for SAP Solutions Uninstall dialog box opens.

3 Click **Next**. The Update the Server dialog box opens.



Select an update option:

- ▶ **Yes.** Updates the archive files and runs the deployment tool.
- ▶ **No.** Indicates that you will manually update the archive files later.

Click **Next** to continue to uninstall, or **Cancel** to close the Update the Server dialog box without uninstalling.

- 4 If you selected Yes in the previous step, the Quality Center Archive and Deployment Tool opens.



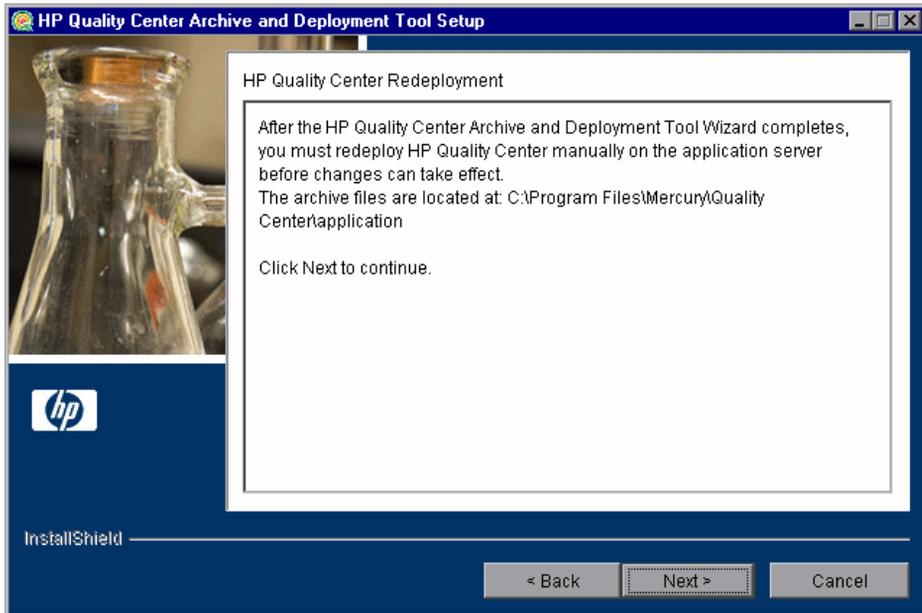
To uninstall the Enterprise Extension, you need to create a new archive and redeploy the Quality Center and Site Administration war files (**qcbn.war** and **sabin.war**) on the application server. This enables changes to the .war files to take effect.

Click **Next** to create the new archive files.

Note: It takes more time to create **qcbn.war** than **sabin.war**.

5 If your application server is JBoss, proceed to step 6.

If your application server is Websphere or WebLogic, the following dialog box opens.



You must deploy Quality Center manually on the application server after the setup process completes. The location of the archive files is shown in the dialog box.

The updated archive files are stored in different formats, although the content is the same. The files are stored openly in the **10sabin.war** and **20qcbin.war** folders, and as closed archives in **sabin.war** and **qcbin.war**.

To update the archives and undeploy them manually, run the **undeploy.bat** script (or **undeploy.sh** for Solaris or Linux) from the **<Change Impact Testing installation>** directory. When running the batch file, specify the Quality Center installation directory and the location of the Quality Center repository, using the format:

```
undeploy <Quality Center installation directory> <Quality Center repository directory>
```

For example:

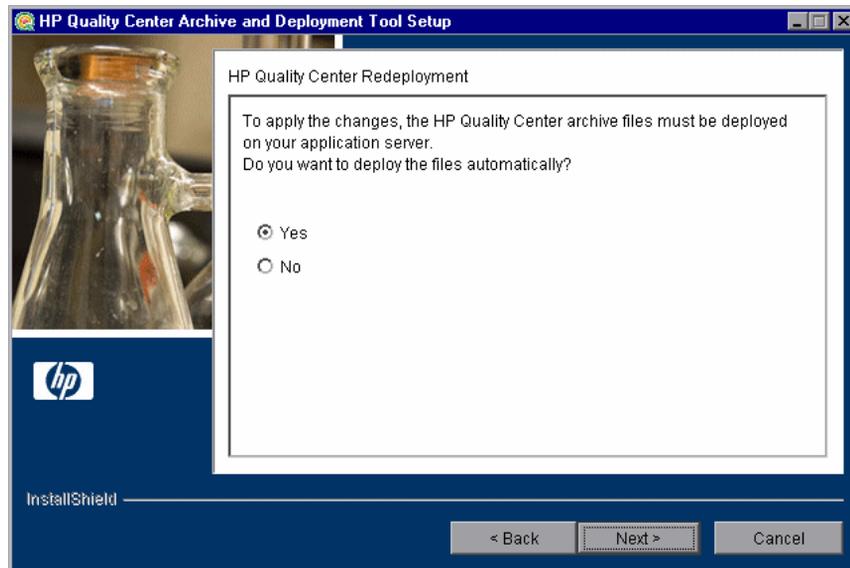
```
undeploy "C:\Program Files\Mercury\Quality Center" "C:\Program Files\Mercury\Quality Center\repository"
```

Note: For more information on manually deploying Quality Center on an application server, refer to the *HP Quality Center Installation Guide*.

Click **Next** and proceed to step 8.

6 If your application server WebSphere or WebLogic, proceed to step 8.

If your application server is JBoss, the HP Quality Center Redeployment dialog box opens.

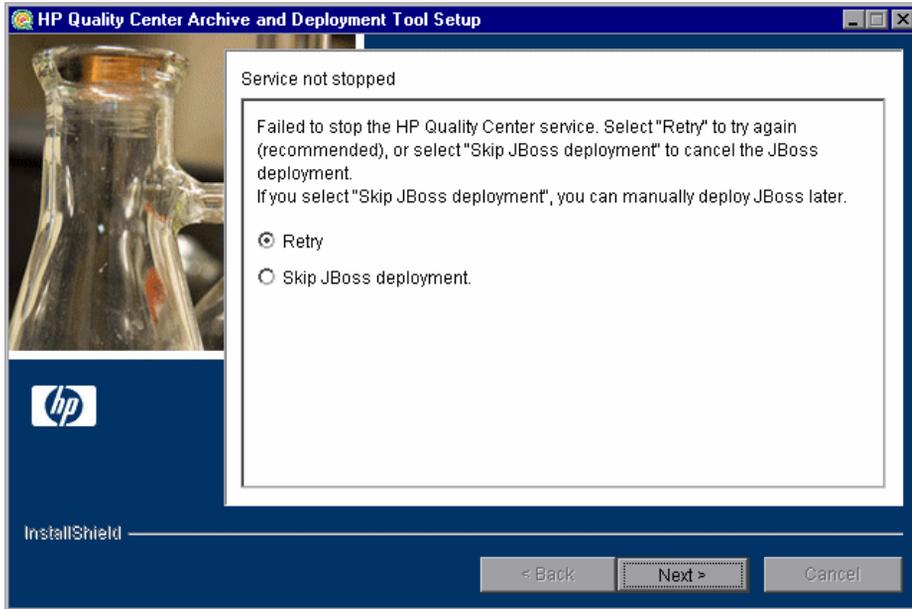


Choose one of the following options:

- **Yes.** To deploy the archive files automatically.
- **No.** To manually deploy the archive files later.

Click **Next** to continue.

- 7 If the Quality Center service is running, the Archive and Deployment Tool automatically attempts to stop the service. If the tool is unable to stop the service, the Service Not Stopped dialog box opens.



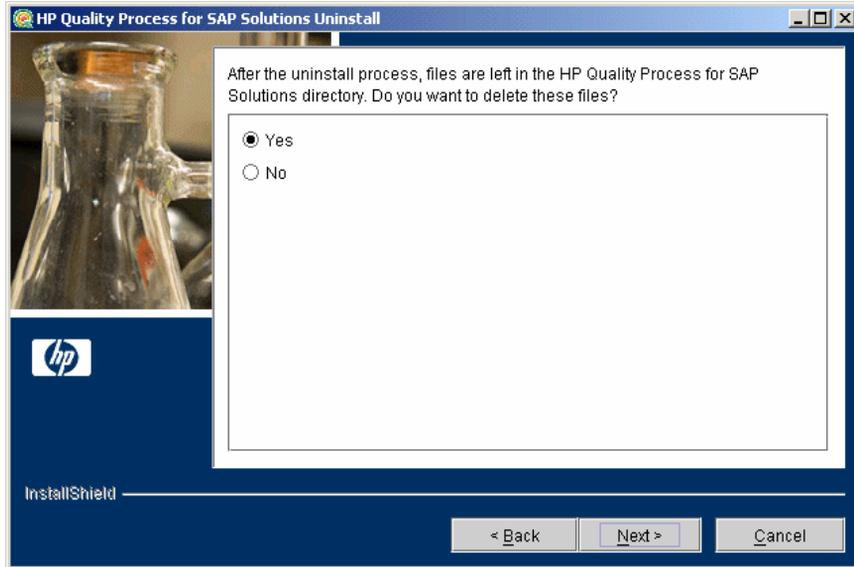
Choose one of the following options:

- **Retry.** To try again to stop the JBoss service.
- **Skip JBoss deployment.** To cancel the deployment and manually deploy JBoss later.

Click **Next**.

- 8 When the deployment is complete, the Completion dialog box opens. Click **Finish** to close the Quality Center Archive and Deployment Tool Setup. The HP Quality Process for SAP Solutions Uninstall dialog box is displayed.
- 9 Click **Next**. The Update completed dialog box opens.

- 10 Click **Next** to continue. The File Deletion dialog box opens.



It is recommended that you click **Yes** to delete the remaining uninstall files in the Enterprise Extension directory.

Click **Next**.

- 11 Click **Finish** to close the HP Quality Process for SAP Solutions Uninstall dialog box.

Uninstalling the Enterprise Extension from Linux or Solaris

This section describes how to uninstall the Enterprise Extension from a Linux or Solaris machine.

To uninstall the Enterprise Extension from a Linux or Solaris machine:

- 1** Make sure that the application server is running.
- 2** Type the following command at the system prompt:
`/[directory]/[Enterprise Extension_directory]/_uninst/uninstall`
The HP Quality Process for SAP Solutions Uninstall wizard opens.
- 3** Click **Next**. Follow the on-screen instructions.
- 4** Run the Quality Center Archive and Deployment Tool to create a new archive and redeploy the Quality Center and Site Administration .war files on the application server.
- 5** When you are prompted to delete all add-in files, select **Yes**.

2

Setting Up the Enterprise Extension

This chapter describes how to enable your Quality Center projects for the Enterprise Extension, and how to set up your SAP application to enable learning flows automatically. The chapter also explains how to customize the Enterprise Extension.

This chapter includes:

- ▶ About Setting Up the Enterprise Extension on page 34
- ▶ Loading the Enterprise Extension License on page 34
- ▶ Enabling the Enterprise Extension on page 35
- ▶ Installing the SAP Application Importer Component on page 37
- ▶ Configuring the SAP Environment on page 38
- ▶ Customizing the Enterprise Extension on page 38

About Setting Up the Enterprise Extension

After you install the Enterprise Extension on your Quality Center server machine, you must load the Enterprise Extension license to enable you to work with the Enterprise Extension in your Quality Center projects. In addition, you must enable the Enterprise Extension for each Quality Center project for which you want to use it. You must also install the SAP Application Importer Component on each Quality Center client machine. If you want to learn flows automatically by navigating your SAP application, you must configure your SAP environment.

You can also configure which Quality Center user groups can perform actions in the Application Model module, and configure Application Model module entities.

Loading the Enterprise Extension License

To enable the Enterprise Extension in Quality Center, you must load your Enterprise Extension license.

To load the Enterprise Extension license:

- 1 In Site Administration, click the **Licenses** tab.

Site Projects | Site Users | Site Connections | Licenses | Servers | DB Servers | Site Configuration | Site Analysis

Modify

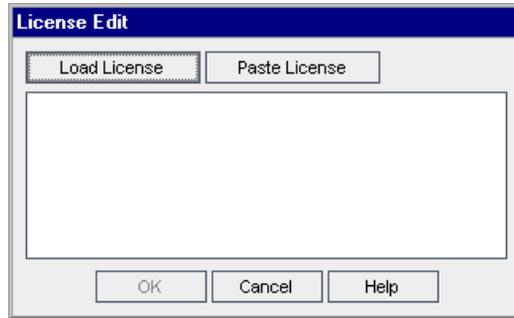
HP Quality Center License Status:

License	In Use	Max
Defects	8	Unlimited
TestPlan-TestLab	8	Unlimited
Requirements	8	Unlimited
Components	8	Unlimited

Expiration Date : 11/30/2007 Tolerance: 0 %
Version Control : Y Dashboard: Y



- 2 Click the **Modify License** button. The License Edit dialog box opens.



- 3 Click the **Load License** button and select the Enterprise Extension license file. Alternatively, copy the content of the license file and click **Paste License**.
- 4 Click **OK**. The license is displayed in the list of licenses.

Enabling the Enterprise Extension

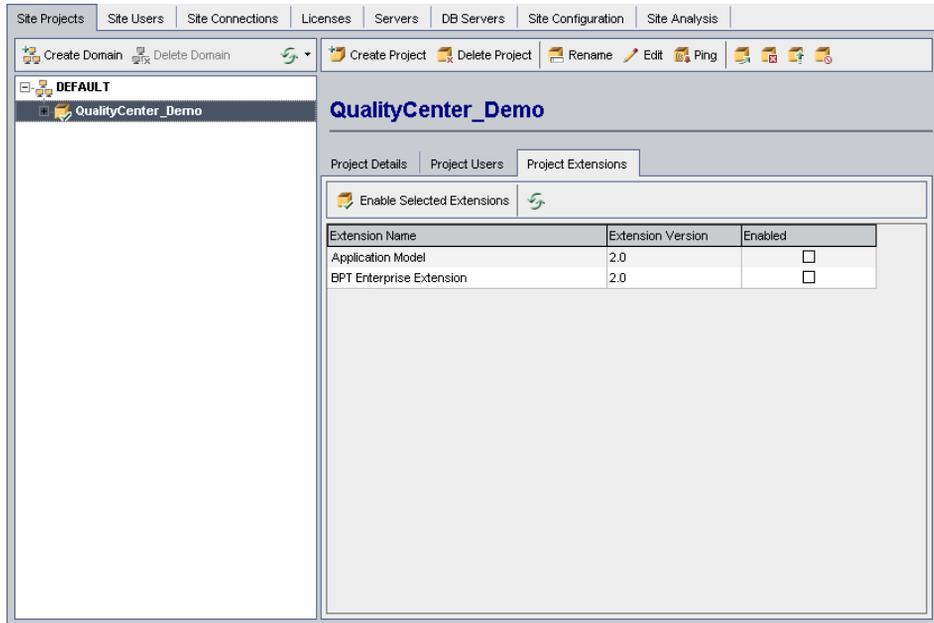
After installing the Enterprise Extension on your Quality Center server, you must enable the Enterprise Extension for a project before you can use it with the project.

Notes:

- You cannot disable an extension for a project after you enable it.
 - When you enable a project for the Enterprise Extension, the Application Model module is also enabled for the project.
-

To enable the Enterprise Extension extension for a project:

- 1** In Quality Center Site Administration, click the **Site Projects** tab.
- 2** In the Projects list, select a project. In the right pane, click the **Project Extensions** tab. The Extensions list is displayed, listing extensions installed on the Quality Center server.



- 3** Select the **Enabled** check box for the **BPT Enterprise Extension** extension, and click **Yes** to confirm. The **BPT Enterprise Extension** and **Application Model** extensions are both enabled and a confirmation message displays. Note that enabling the extensions may take some time.

Note: Once Enterprise Extension is enabled for a project it cannot be disabled.

Installing the SAP Application Importer Component

If you want to import SAP application entity hierarchies to the Application Model module on your Quality Center client machine, you must install the SAP Application Importer Component on that client machine. The SAP Application Importer Component is the tool that communicates with the SAP server and imports application entity data from your SAP application to Quality Center.

Notes:

- ▶ To install the SAP Application Importer Component, you must have Microsoft .NET Framework 2.0 installed on the client machine. You can download it from the Microsoft Web site (<http://www.microsoft.com>).
- ▶ To install the SAP Application Importer Component, you must have operating system administrator permissions.

To install the SAP Application Importer Component:

- 1** From your Quality Center client machine, log in to a project for which the Enterprise Extension is enabled. The SAP Application Importer Component files are downloaded to your client machine.
- 2** Locate the **APM** directory in the Quality Center installation directory (by default **C:\Program Files\Common Files\Mercury Interactive\Quality Center**).
- 3** Run the **SAPAppImporterSetup.exe** file located in this folder and follow the installation instructions on your screen.

Configuring the SAP Environment

To use the Enterprise Extension to learn flows automatically by navigating your SAP application, you must configure your SAP application. The necessary configuration settings are the same as those required for working with the HP QuickTest Professional Add-in for SAP Solutions. For more details on these configurations settings, refer to the “*Setting Up Your SAP Gui for Windows Environment*” chapter in *HP QuickTest Professional Add-ins Guide*.

Customizing the Enterprise Extension

You can customize the Enterprise Extension by defining which user groups can add, delete, and modify application entity folders and application entities. You can also determine which application entities and application entity fields each user group can view. In addition, you can add and customize Application Model module fields and customize access to the Application Model module.

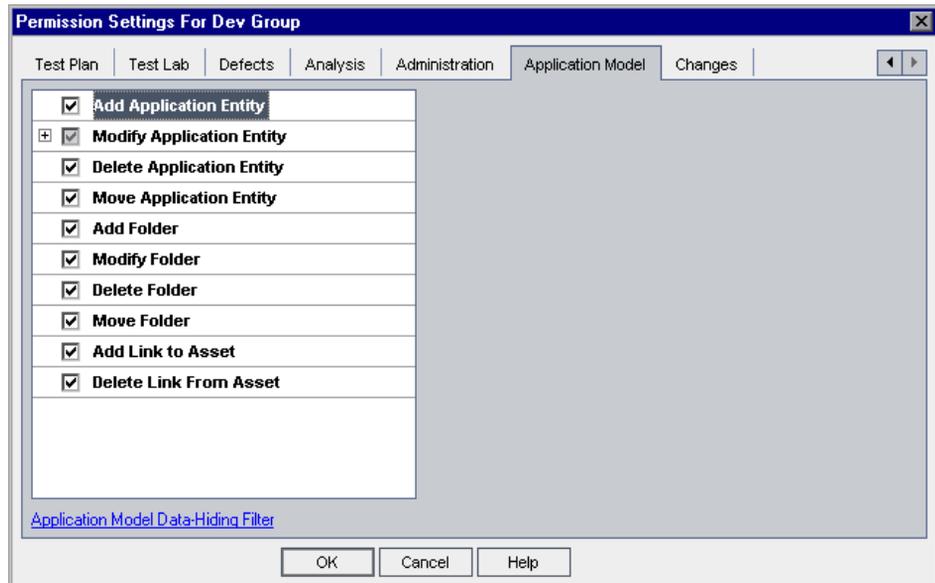
This section includes the following topics:

- ▶ Customizing User Group Permissions for the Application Model Module
- ▶ Hiding Data in the Application Model Module for a User Group
- ▶ Customizing Project Entities
- ▶ Customizing Module Access

Customizing User Group Permissions for the Application Model Module

You can customize the permission settings for the Application Model module in the Permission Settings dialog box in Project Customization. For more information on user group permissions, refer to the *HP Quality Center Administrator's Guide*.

The Application Model tab displays the tasks available in the Application Model module.



The Application Model tab includes the following tasks:

Task	Description
Add Application Entity	User group can add application entities to the Application Model module.
Modify Application Entity	User group can modify application entities in the Application Model module. This task also enables you to specify the fields that the selected user group can modify.
Delete Application Entity	User group can delete application entities from the Application Model module.
Move Application Entity	User group can move application entities in the Application Model module.
Add Folder	User group can add folders to the Application Model Tree.
Modify Folder	User group can modify folders in the Application Model Tree.
Delete Folder	User group can delete folders from the Application Model Tree.
Move Folder	User group can move folders in the Application Model Tree.
Add Link to Asset	User group can associate application entities with tests and business components.
Delete Link from Asset	User group can remove associations of application entities with tests and business components.

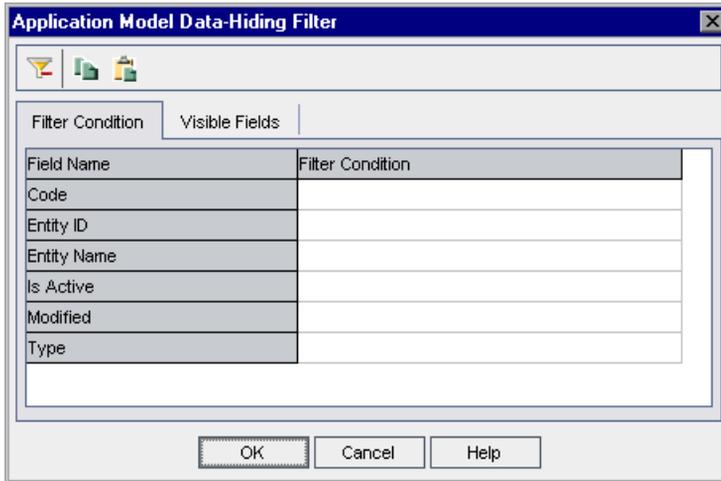
The following are the permissions needed for different tasks in Business Process Testing for SAP Applications.

To do the following:	You need to belong to the group with permissions for:
Work with flows	Working with tests
Learn flows	The Modify Test task
Detect changes	The Run task
Resolve changes	The Modify Test and the Modify Component tasks

Tip: In order to ensure that proper permissions are set, when creating a new users group, based it on the "TDAdmin" group, and then remove any unnecessary permissions. Do not base a new group on the "Viewer" group.

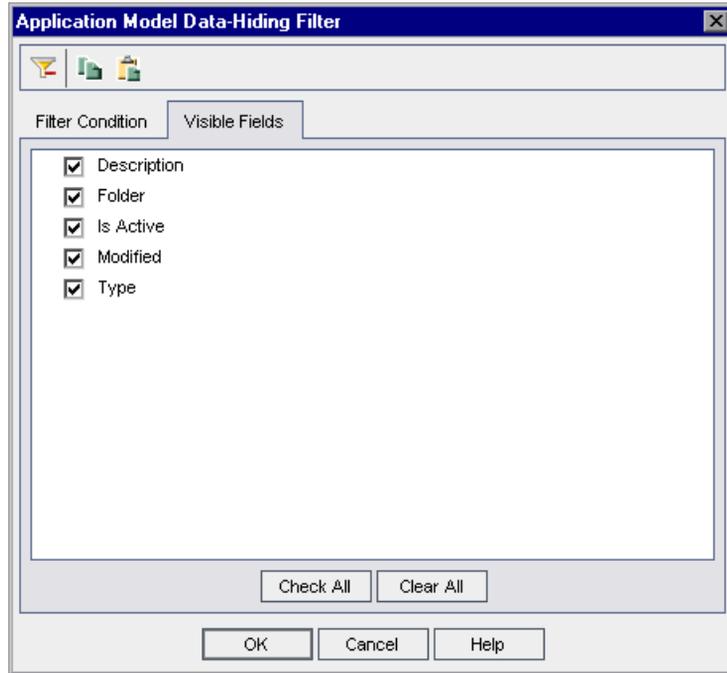
Hiding Data in the Application Model Module for a User Group

You can set filters for specific fields in the Application Model module, limiting the application entities that a user group can view. For example, you can set the filter for the field **Type** to **SAP Batch Job**. This instructs Quality Center to allow users belonging to the user group to view only application entities that are SAP batch jobs. You set filters in the Filter Condition tab in the Application Model Data-Hiding Filter dialog box. For more information on hiding data for a user group, refer to the *HP Quality Center Administrator's Guide*.



You can filter by the following fields: **Code**, **Entity ID**, **Entity Name**, **Is Active**, **Modified**, and **Type**. For more details on these fields, refer to the *HP Business Process Testing Enterprise Extension User's Guide*.

You can also select which fields in the Application Model module the user group can see and which should be hidden. You select these fields in the Application Model Data-Hiding Filter dialog box, in the Visible Fields tab.



You can choose to hide the following fields: **Description**, **Folder**, **Is Active**, **Modified**, and **Type**. For more details on these fields, refer to the *HP Business Process Testing Enterprise Extension User's Guide*.

Customizing Project Entities

You can customize the system fields and add new user-defined fields for the Application Model module from the Project Entities page in Quality Center Project Customization. You customize these fields under the **Application Entity** and the **Change Entity** entities. For more information on customizing project entities, refer to the *HP Quality Center Administrator's Guide*.

Customizing Module Access

You can customize which user groups can access the Application Model module. You customize access to these modules from the Module Access page in Quality Center Project Customization. For more information on customizing access to Quality Center modules, refer to the *HP Quality Center Administrator's Guide*.