HP Enterprise Integration module for SAP applications

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User's Guide

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Welcome

Welcome to HP Enterprise Integration module for SAP applications, which integrates SAP Solution Manager with Quality Center. You can use Enterprise Integration to import SAP Solution Manager business blueprints to the Quality Center Requirements module. This enables you to use the created requirements as a basis for developing the testing process for your SAP application.

Note: This guide explains how to work with SAP Solution Manager in conjunction with Quality Center. For more information on using Quality Center, refer to the *HP Quality Center User's Guide*. For more information on using Solution Manager, refer to the Solution Manager documentation.

Using This Guide

This guide contains the following chapters:

Chapter 1 Setting Up Enterprise Integration

Describes how to install and enable Enterprise Integration.

Chapter 2 Importing Business Blueprints

Describes how to import and reimport SAP Solution Manager business blueprints to the Quality Center Requirements module. It also describes how to upgrade your project to the latest version of Enterprise Integration.

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:"
Arguments	This style indicates method, property, or function arguments and book titles. For example, “Refer to the *HP User’s Guide*.”
<**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.

1

Setting Up Enterprise Integration

This chapter describes the installation requirements and setup procedures for using Enterprise Integration.

This chapter includes:

- Requirements for Enterprise Integration on page 9
- The Installation Process on page 10
- Installing Enterprise Integration on page 11
- Loading the Enterprise Integration License on page 22
- Enabling the Enterprise Integration Extension on page 23
- Installing the Enterprise Integration Client on page 24
- Uninstalling Enterprise Integration on page 25

Requirements for Enterprise Integration

To use Enterprise Integration, you must have the following installed:

- Quality Center 9.2 (on your server machine)
- Quality Center 9.2 Patch 3 (on your server machine)

The minimum system requirements to run Enterprise Integration are the same as for Quality Center, as described in the *HP Quality Center Installation Guide*.

The Installation Process

This section describes the Enterprise Integration installation process.

To install Enterprise Integration:

1 **Ensure that Quality Center 9.2 is installed on your server machine.**

For more information on installing Quality Center, refer to the *HP Quality Center Installation Guide*.

2 **Install Quality Center 9.2 Patch 3 or later on your server machine.**

Download Quality Center Patch 3 or later from the Customer Support Web site, and install it on your Quality Center server machine.

3 **Install Enterprise Integration on your server machine.**

For more information on installing Enterprise Integration, see "Installing Enterprise Integration" on page 11.

4 **Load the Enterprise Integration licence.**

For more information, see "Loading the Enterprise Integration License" on page 22.

5 **Enable the Enterprise Integration extension in Quality Center Site Administration for every project that requires Enterprise Integration.**

For more information, see "Enabling the Enterprise Integration Extension" on page 23.

6 **Install the Enterprise Integration Client on each client machine.**

For more information, see "Installing the Enterprise Integration Client" on page 24.

Installing Enterprise Integration

To install Enterprise Integration, you run the appropriate installation file from the Enterprise Integration CD and follow the installation instructions in the installation wizard.

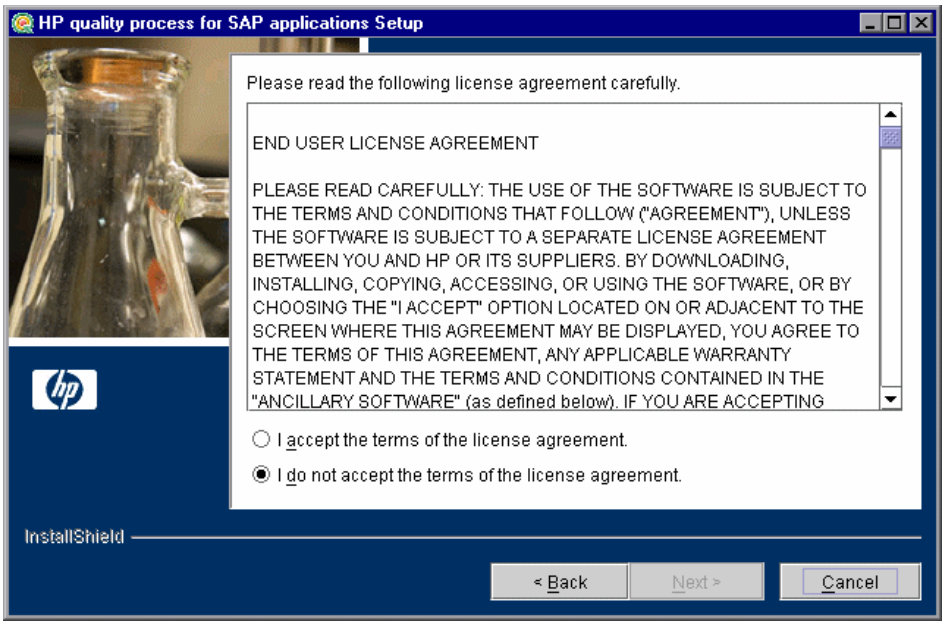
To install Enterprise Integration:

1 Run the appropriate installation file from the Enterprise Integration CD.

Platform	To install:
Windows	Run the **setup_win.exe** file.
Solaris or Linux (console mode)	➤ To install on a Solaris platform, type: **./setup_solaris -console** ➤ To install on a Linux platform, type: **./setup_linux -console**
Solaris or Linux (UI mode)	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). ➤ To install on a Solaris platform, type: **./setup_solaris.bin** ➤ To install on a Linux platform, type: **./setup_linux.bin**

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

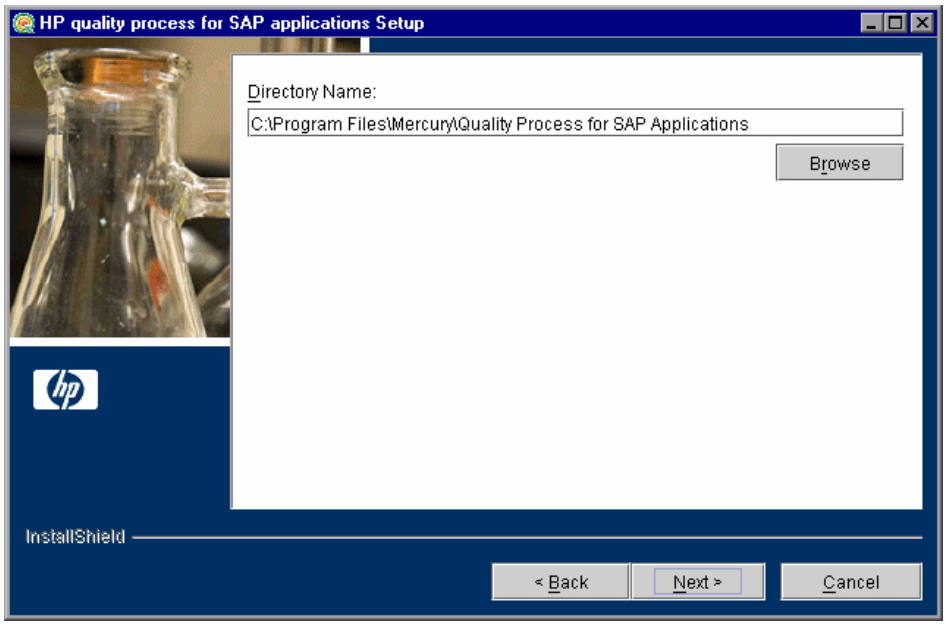
3 The License Agreement dialog box opens.



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

Click **Next**.

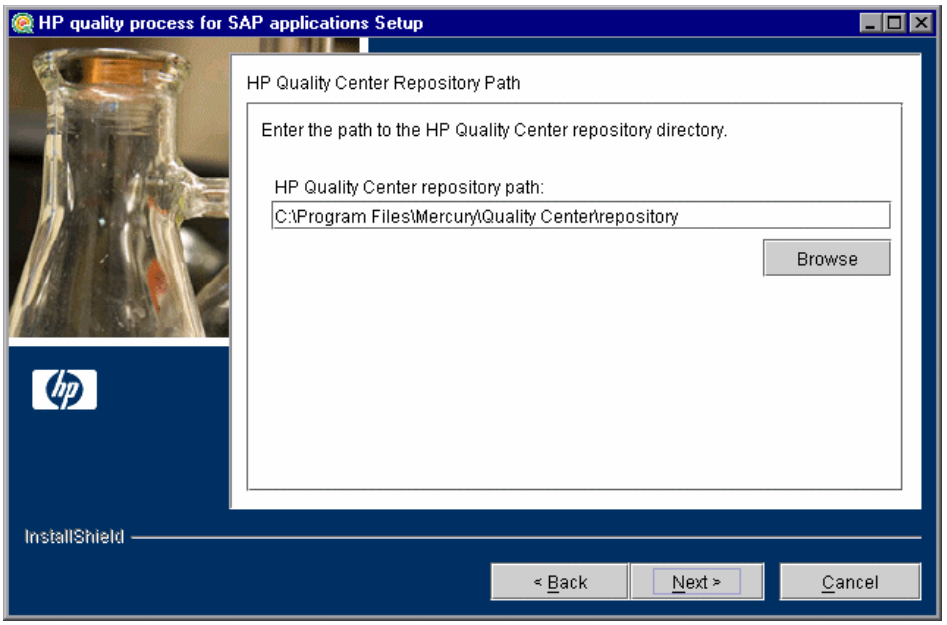
4 The Directory Name dialog box opens.



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

Click **Next**.

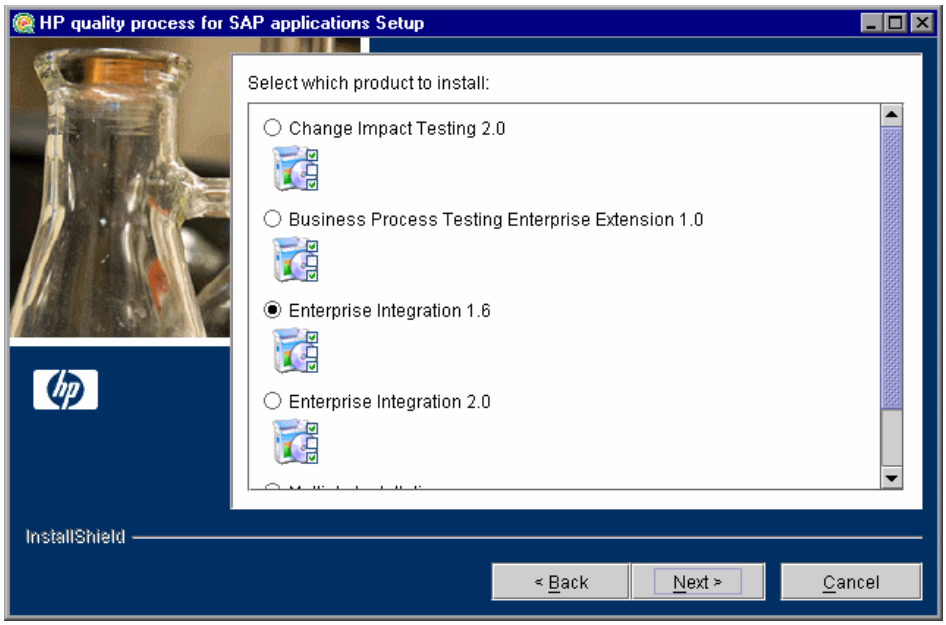
5 The HP Quality Center Repository Path dialog box opens.



Type the location of the Quality Center repository.

Click **Next**.

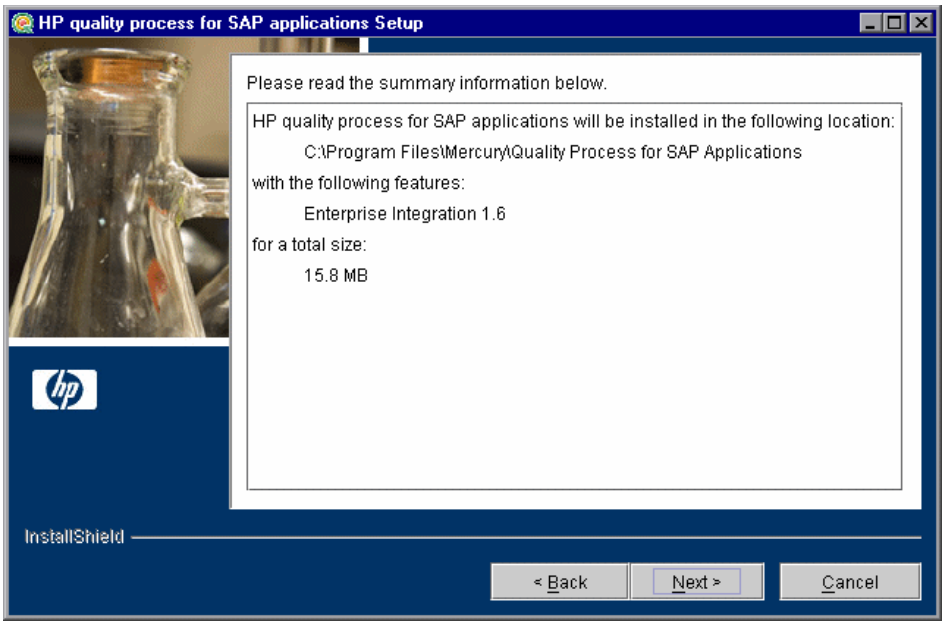
6 The Select which product to install dialog box opens.



To install Enterprise Integration 1.6, select **Enterprise Integration 1.6** and click **Next**.

To install multiple products, select **Multiple Installations** and click **Next**. A dialog box opens which enables you to select which products you want to install. Select the product names and click **Next**.

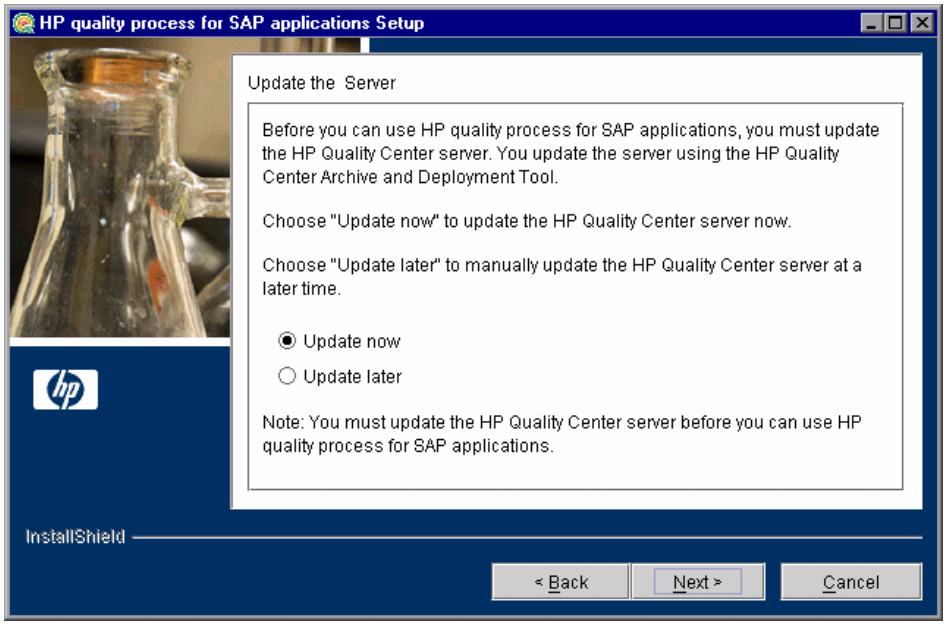
7 The Installation Summary dialog box opens.



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

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

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



When you update the Quality Center server, the Enterprise Integration files are copied into the opened archive directories (**qcbin.war** and **sabin.war**) in the **<Quality Center Installation>\application** directory. The Quality Center Archive and Deployment Tool is launched. This tool enables you to update the Quality Center Web server that is currently running.

Select an update option:

- **Update now.** To update the Quality Center archive files and launch the deployment tool now.
- **Update later.** To manually update the Quality Center server at a later time. You must update the Quality Center server before you can use Enterprise Integration.

Click **Next**.

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

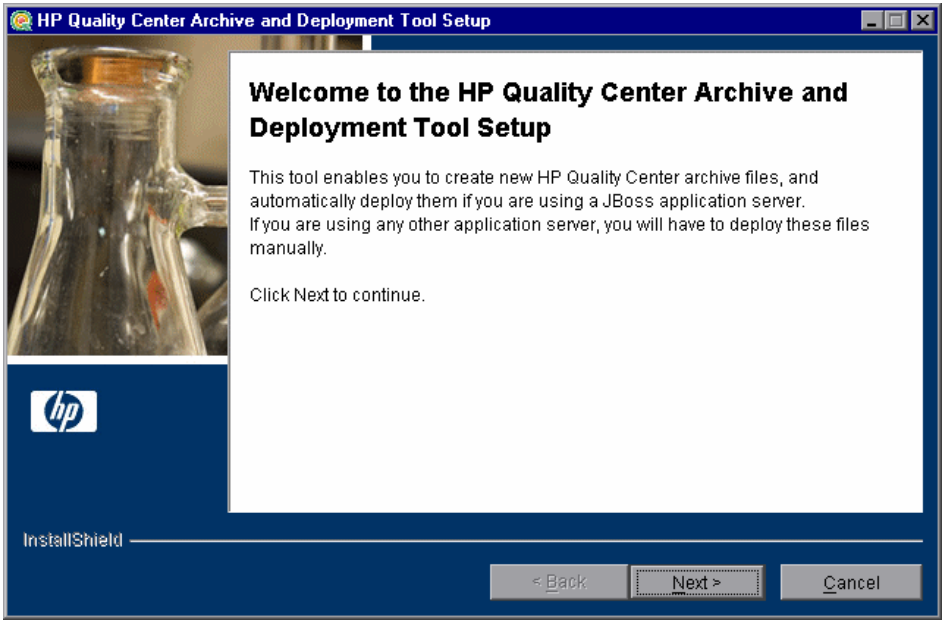
If you selected **Update later**, click **Next** and then click **Finish** to close the installation setup dialog box. When you are ready to update the application server, run the **deploy.bat** script (or **deploy.sh** for Solaris or Linux) from the **<Enterprise Integration installation>** directory. 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"

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

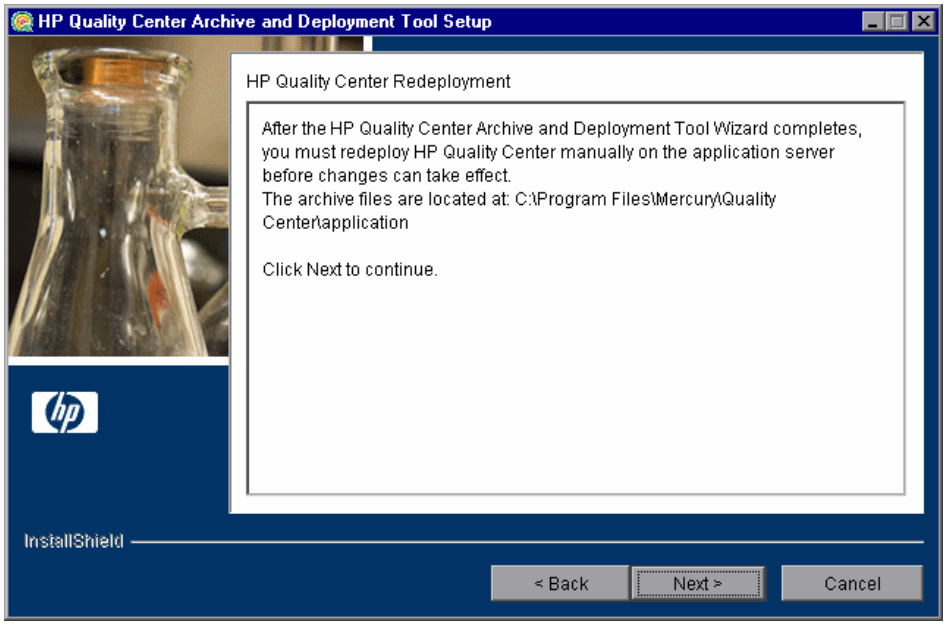


For Enterprise Integration to work with Quality Center, you need to create a new archive and redeploy the **qcbin.war** and **sabin.war** files on the application server. This enables changes to the archive files to take effect. Note that it takes more time to create **qcbin.war** than **sabin.war**.

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

11 If your application server is JBoss, proceed to step 12.

If your application server is other than JBoss, the HP Quality Center Redeployment 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.

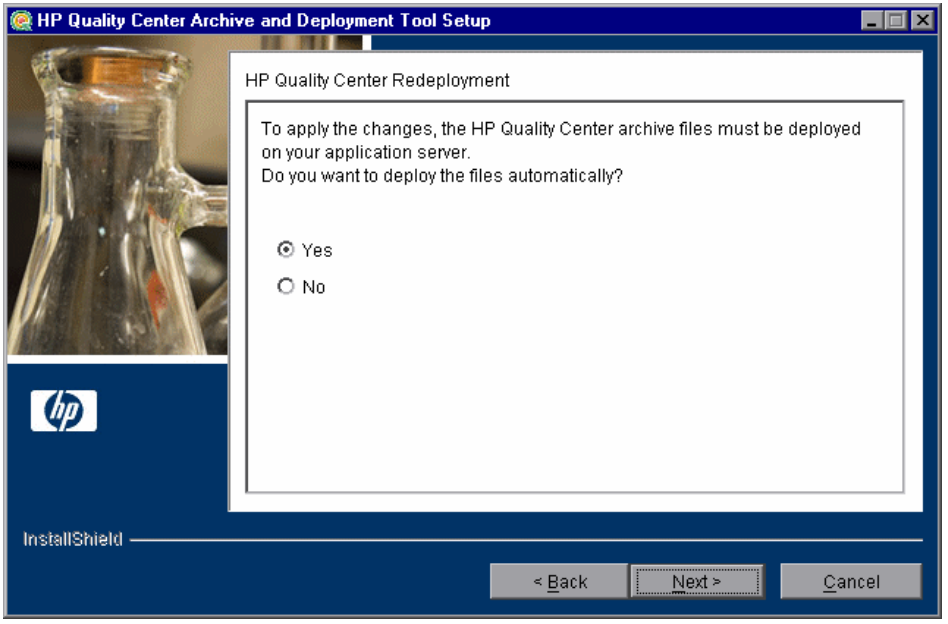
The updated archive files are stored in different formats, although the content is the same. The files are stored openly in the **10sabin.war** and **20qcbin.war** folders, and as closed archives in **sabin.war** and **qcbin.war**.

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 14.

12 If your application server is other than JBoss, proceed to step 14.

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

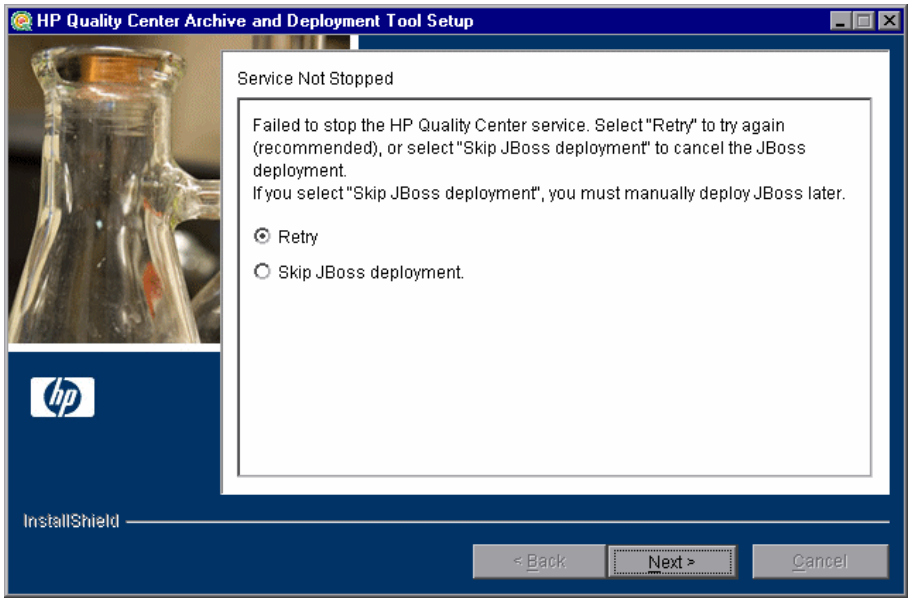


Choose one of the following options:

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

Click **Next**.

13 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**.

14 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.

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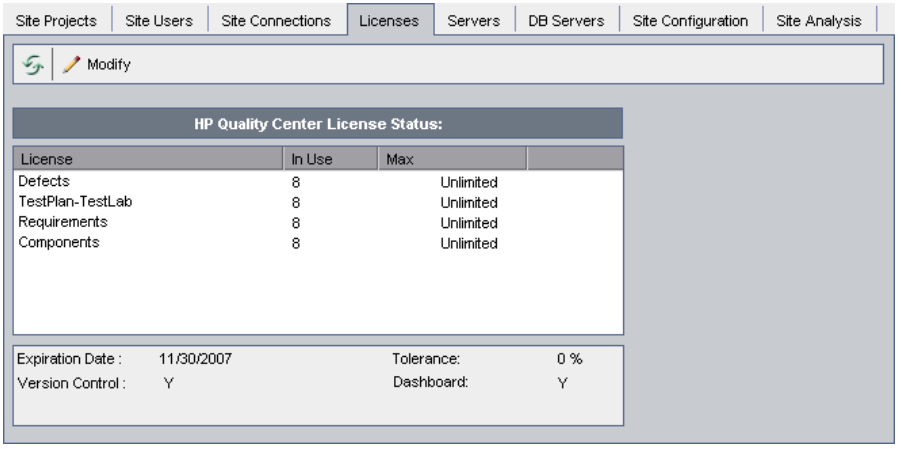
15 Click **Finish** to close the HP quality process for SAP applications Setup dialog box.

Loading the Enterprise Integration License

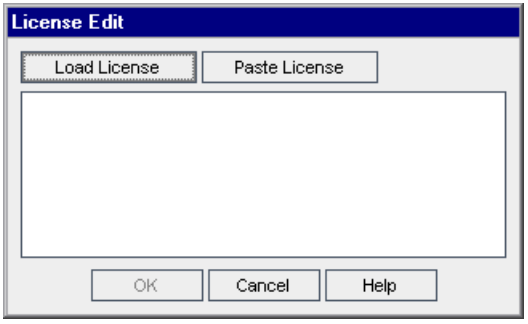
To enable Enterprise Integration in Quality Center, you must load your Enterprise Integration license.

To load the Enterprise Integration license:

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



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



3 Click the **Load License** button and select the Enterprise Integration license file. Alternatively, copy the license file and click **Paste License**.

4 Click **OK**. The license is displayed in the list of licenses.

Enabling the Enterprise Integration Extension

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

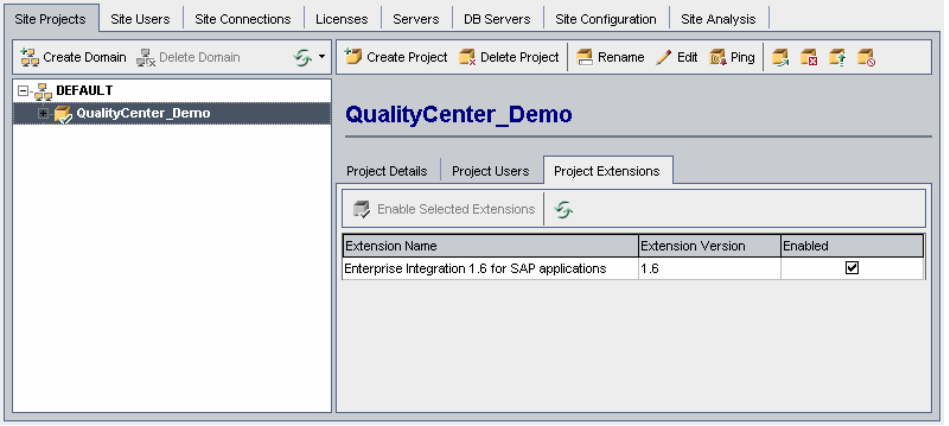
Notes:

- You cannot disable the Enterprise Integration extension for a project after you enable it.
- If the project is active, you must deactivate it before enabling the Enterprise Integration extension. After the extension has been enabled, you can reactivate the project.
- When you enable the Enterprise Integration extension, **Business** type requirements are redefined to enable you to add test coverage to requirements of this type.
- Enabling the Enterprise Integration extension for a project can take some time.

To enable the Enterprise Integration 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 **Enterprise Integration 1.6 for SAP applications** extension, and click **Yes** to confirm. The extension is enabled and a confirmation message displays.

Installing the Enterprise Integration Client

You must install the Enterprise Integration Client on each Quality Center client machine on which you want to import business blueprint elements to Quality Center.

Notes:

- To install the Enterprise Integration Client, you must have Microsoft .NET Framework 2.0 installed on the client machine. You can download these from the Microsoft Web site (http://www.microsoft.com).
- To install the Enterprise Integration Client, you must have administrator permissions on the client machine.

To install the Enterprise Integration Client:

1. From your Quality Center client machine, log in to a project for which Enterprise Integration is enabled.
2. Locate the **HPSPI** directory in the Quality Center installation directory (by default **C:\Program Files\Common Files\Mercury Interactive\Quality Center**).
3. Run the **EIClientSetup.exe** file located in this folder and follow the installation instructions on your screen.

Uninstalling Enterprise Integration

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

Note: If you installed more than one product when installing Enterprise Integration (see step 6 on page 15), all products are uninstalled.

This section includes the following topics:

- Uninstalling Enterprise Integration from Windows
- Uninstalling Enterprise Integration from Linux or Solaris

Uninstalling Enterprise Integration from Windows

This section describes how to uninstall Enterprise Integration from Windows.

To uninstall Enterprise Integration from Windows:

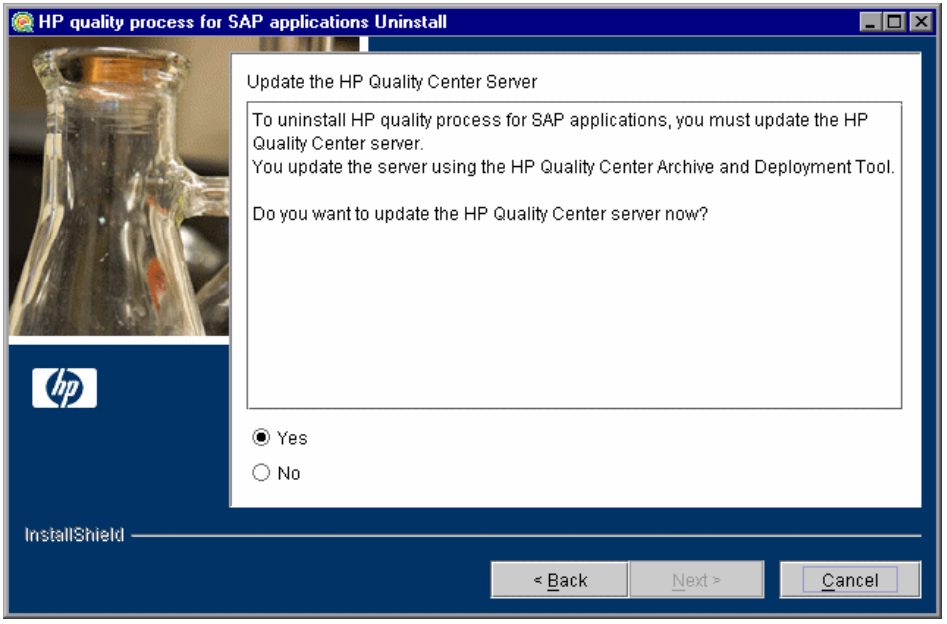
1 Make sure that the application server is running.

2 To open the HP quality process for SAP applications Uninstall dialog box, you can:

- Choose **Start** > **Settings** > **Control Panel** > **Add/Remove Programs**, select **HP quality process for SAP applications**, and click the **Change/Remove** button. Follow the instructions on your screen.
- Locate the Enterprise Integration home directory. By default, the files are stored in [drive]:\Program Files\Mercury\Quality Process for SAP Applications. In the **_uninst** subdirectory, double-click **uninstall.exe**.

The HP quality process for SAP applications Uninstall dialog box opens.

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



Select an update option:

- **Yes.** To update the archive files and launch the deployment tool now.
- **No.** To update and uninstall later.

Click **Next** to continue to uninstall, or **Cancel** to uninstall later.

4 The Quality Center Archive and Deployment Tool Setup opens.

To uninstall Enterprise Integration, you need to create a new archive and redeploy the Quality Center and Site Administration war files (**qcbin.war** and **sabin.war**) on the application server. This enables changes to the .war files to take effect. If your application server is JBoss, the files are redeployed automatically. Otherwise, you must redeploy the files manually.

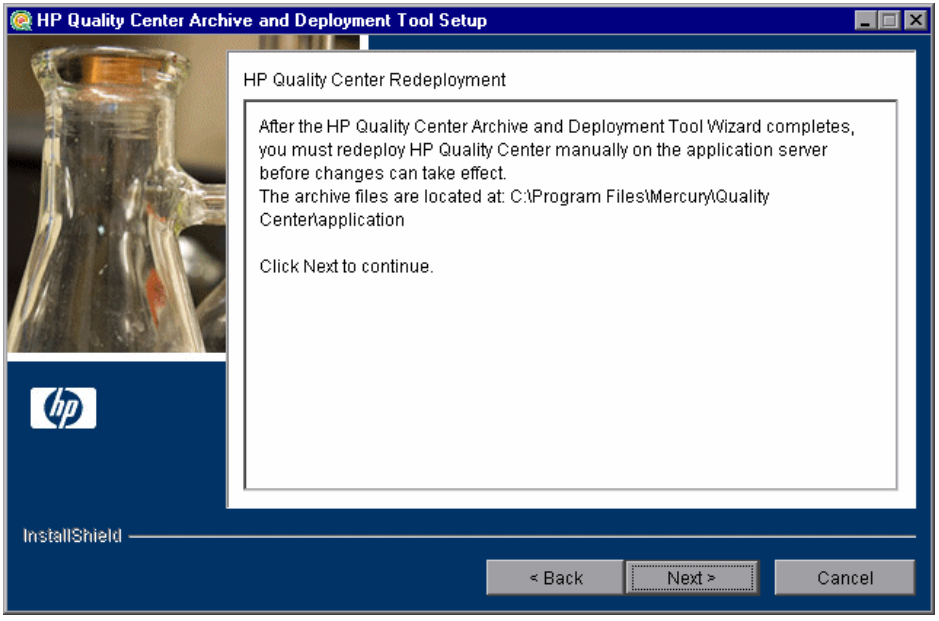
Click **Next** to create the new archive files.

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

---

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

If your application server is other than JBoss, the HP Quality Center Redeployment 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 **<Enterprise Integration 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:

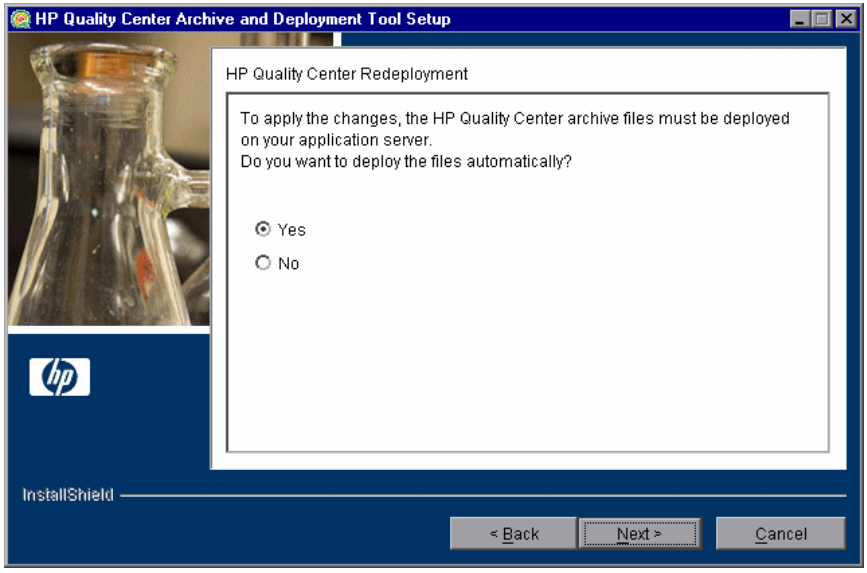
undeploy "C:\Program Files\Mercury\Quality Center" "C:\Program Files\Mercury\Quality Center\repository"

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 is other than JBoss, proceed to step 8.

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

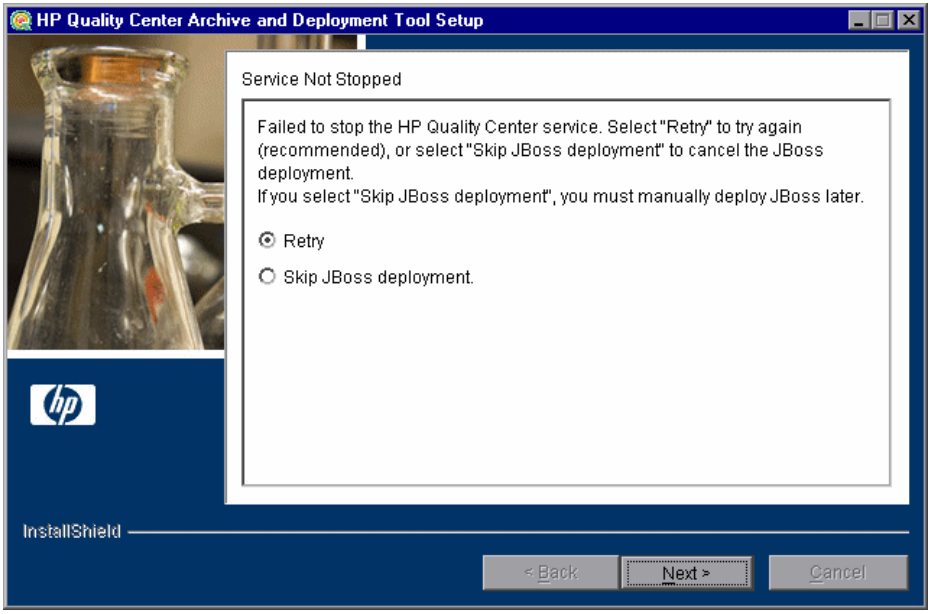


Choose one of the following options:

- **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:

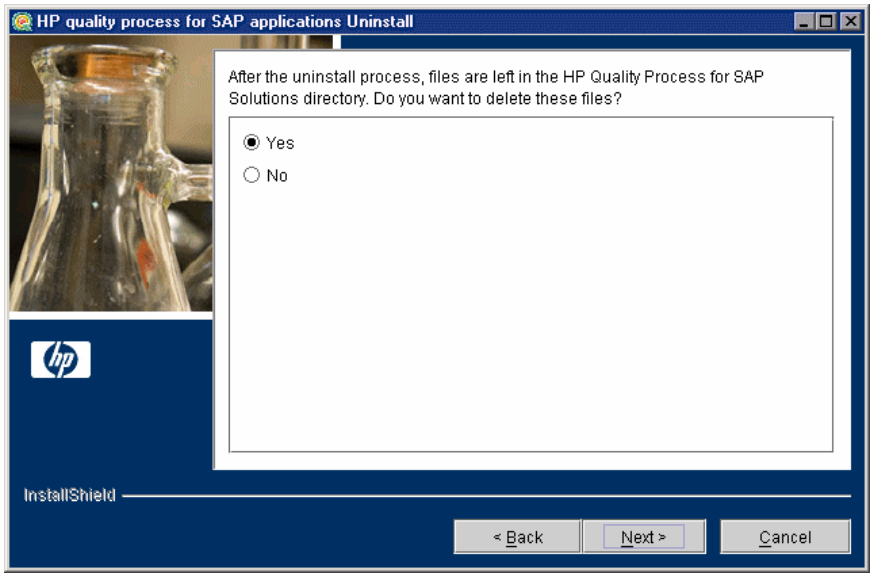
- **Retry.** To try again to stop the JBoss service.
- **Skip JBoss deployment.** To cancel the deployment and manually deploy JBoss later.

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 applications 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 Integration directory.

Click **Next**.

11 Click **Finish** to close the HP quality process for SAP applications Uninstall dialog box.

Uninstalling Enterprise Integration from Linux or Solaris

This section describes how to uninstall Enterprise Integration from Linux or Solaris.

To uninstall Enterprise Integration from Linux or Solaris:

1 Make sure that the application server is running.

2 Type the following command at the system prompt:

/[directory]/[Enterprise Integration_directory]/_uninst/uninstall.bin

The HP quality process for SAP applications 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

Importing Business Blueprints

You can import business blueprints to the Quality Center Requirements module.

This chapter includes:

- About Importing Business Blueprints on page 33
- Importing Business Blueprints on page 35
- Reimporting Business Blueprints on page 45

About Importing Business Blueprints

You can use Enterprise Integration to import your business blueprints as Quality Center requirements. This is useful when you want to create and run tests based on the business blueprint structure. When you import the business blueprint for a Solution Manager project, elements in the blueprint are mapped to requirements and requirement fields in the Quality Center Requirements module.

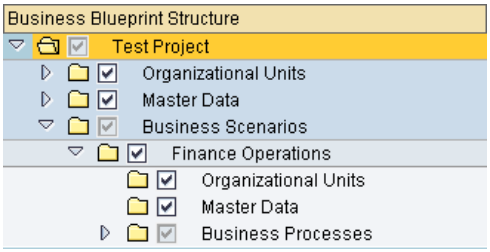
The blueprint structure is mapped to the Quality Center requirements hierarchy. Quality Center creates the requirement **SAP Solution Manager Blueprints** under the root requirement and defines it as a **Folder** type requirement . The root element of the blueprint structure is mapped to a Folder type requirement created under **SAP Solution Manager Blueprints**.

The blueprint nodes under the root element are mapped as child requirements of the requirement created under **SAP Solution Manager Blueprints**. These child requirements are defined as **Business** type requirements .

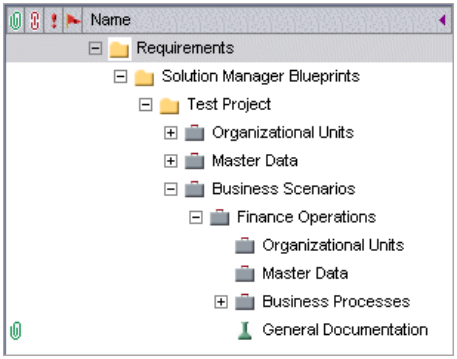
All objects connected to the blueprint nodes (including, general documentation, project documentation, transactions, configuration entities, and development entities) are defined as **Testing** type requirements under the relevant node. All documents connected to the blueprint nodes are imported as attachments of type URL to the requirements .

Other blueprint entity attributes and administrative keywords are mapped according to the mapping you define when importing the blueprint. They can be mapped to existing user-defined fields in the Requirements module.

Consider the sample business blueprint structure below:



After you import the blueprint structure to Quality Center, the Requirements Tree looks as follows:



The requirement Test Project represents the root blueprint structure element. Requirements such as Organizational Units, Master Data, and Business Scenarios represent child elements of this root element. General Documentation represents an object connected to the Finance Operations blueprint node. General Documentation contains an attachment.

After initially importing your business blueprints as Quality Center requirements, you can keep your requirements up-to-date by reimporting your business blueprints for a Solution Manager project. For more information, see "Reimporting Business Blueprints" on page 45.

Importing Business Blueprints

You import your business blueprints using the Import Solution Manager Blueprint Wizard.

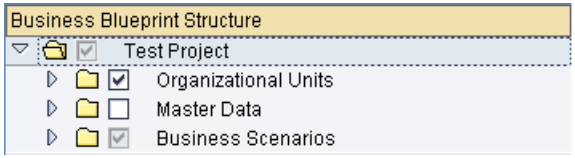
To import a business blueprint:

1 When importing a business blueprint, you can map administrative keywords and blueprint attributes to user-defined fields in the Requirements module. You must define user-defined fields for this mapping before you import a blueprint. For example, you could create the field Logical Component for the blueprint attribute **Logical Component**. You must then make these fields available for the following requirement types: **Folder**, **Business**, and **Testing**.

For more information on creating user-defined fields and customizing requirement types, refer to the *HP Quality Center Administrator's Guide*.

2 In Solution Manager, under **Business Blueprint Structure**, select the check box of each blueprint node that you want to import to the Requirements module.

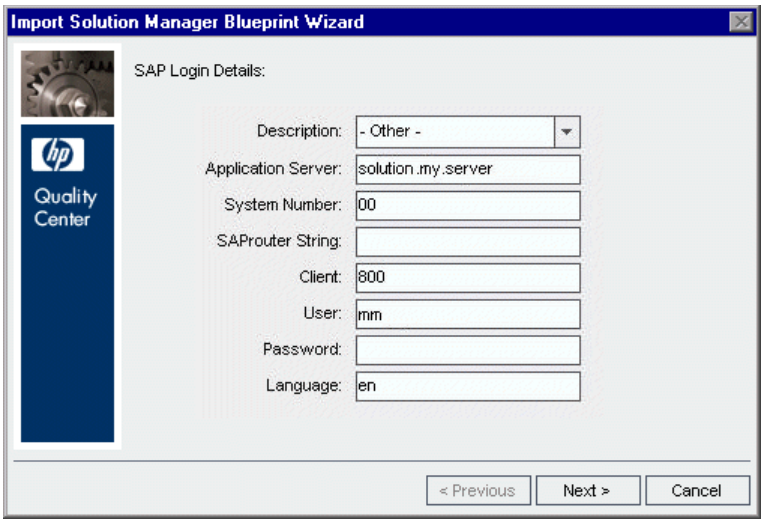
Consider the following example:



All nodes except for Master Data will be imported to the Requirements module.

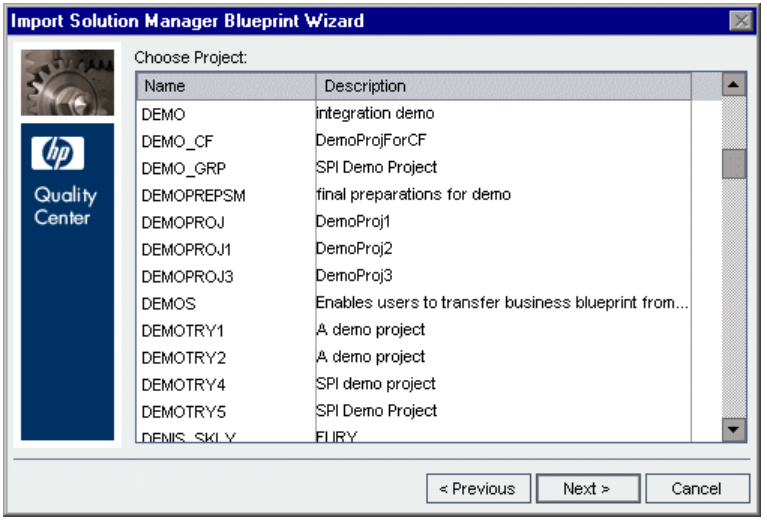
3 On the upper-right side of the Quality Center window, select **Tools** > **SAP Tools** > **Import Solution Manager Blueprint**.

4 The SAP Login Details dialog box opens.



Type the login details for your Solution Manager server and click **Next**.

5 Quality Center connects to your Solution Manager server and the Choose Project dialog box opens, displaying the available projects.



Select the project for which you want to import the business blueprint. To sort by a column, click a column name.

Click **Next**.

Note: If Quality Center detects that the selected project was already imported using SAP Platform Integration 1.5.1, a message box opens. To upgrade to the latest version and continue the import process, click **Yes**.

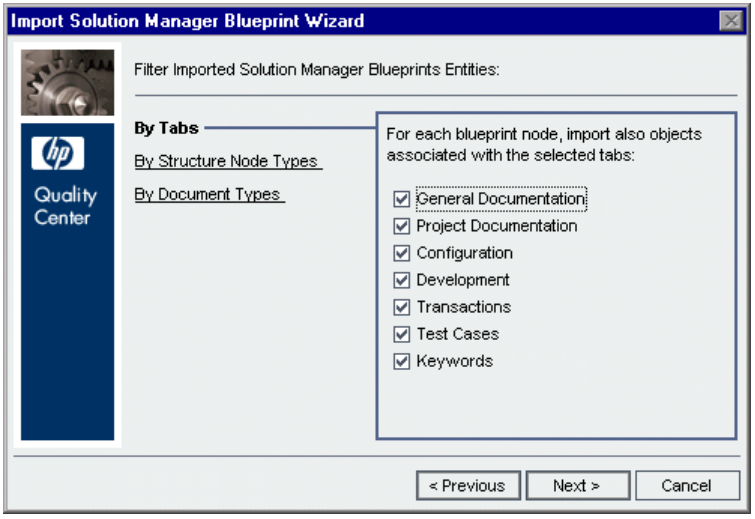
---

6 The Filter Imported Solution Manager Blueprints Entities dialog box opens.

Note: If you are upgrading a project, this dialog box is not enabled. Proceed to step 7 on page 39.

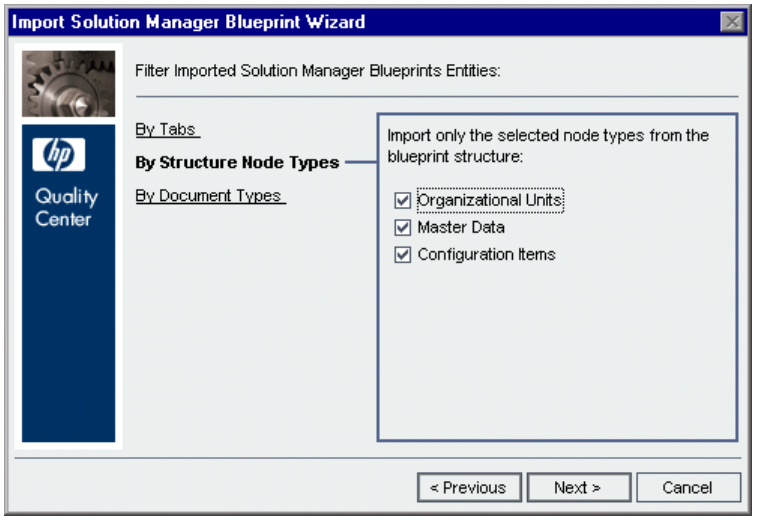
You can click the following options:

➤ **By Tabs.** Imports business blueprint nodes along with objects associated with the selected tabs.



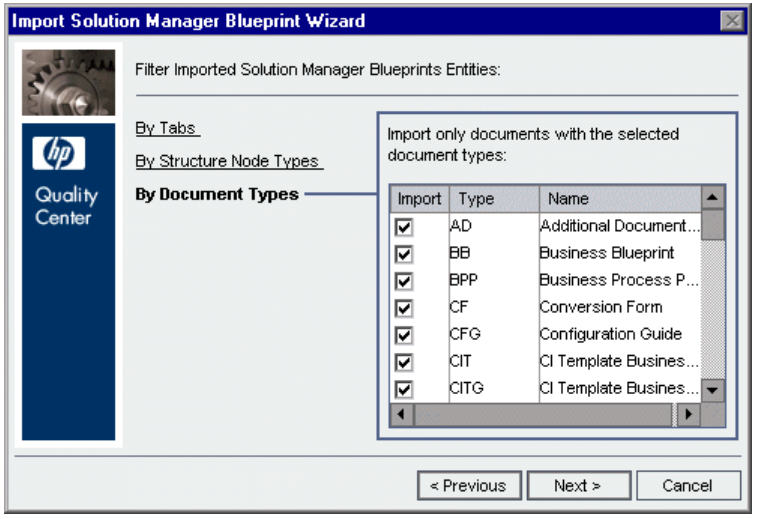
Select or clear a tab name from the list.

➤ **By Structure Node Types.** Imports only selected node types.



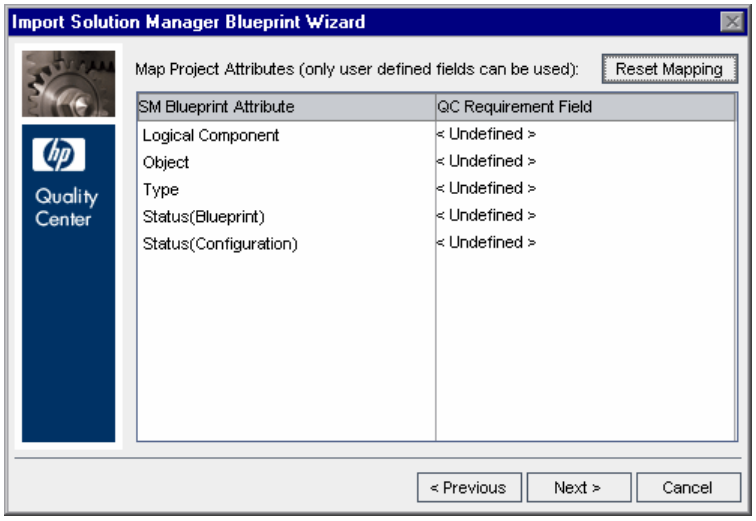
Select or clear a node type from the list.

➤ **By Document Types.** Imports only selected document types.



Select or clear a document type from the list. To sort by a column, click a column name.

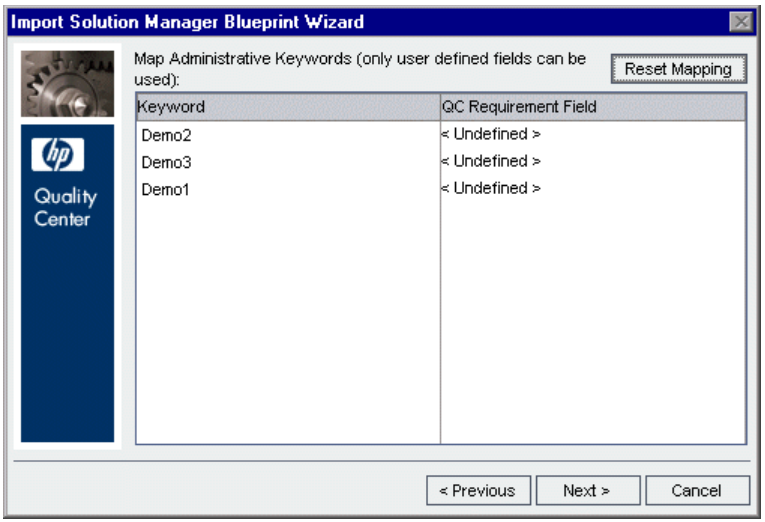
7 Click **Next**. The Map Project Attributes dialog box opens.



For each attribute in the **SM Blueprint Attribute** column that you want to map to a user-defined field in the Requirements module, click the corresponding entry in the **QC Requirement Field** column and click the down arrow. Select the user-defined field in the Requirements module to which you want to map the attribute. If you do not want to map an attribute to a field in the Requirements module, select **< Undefined >**.

Click **Next**.

8 The Map Administrative Keywords dialog box opens.



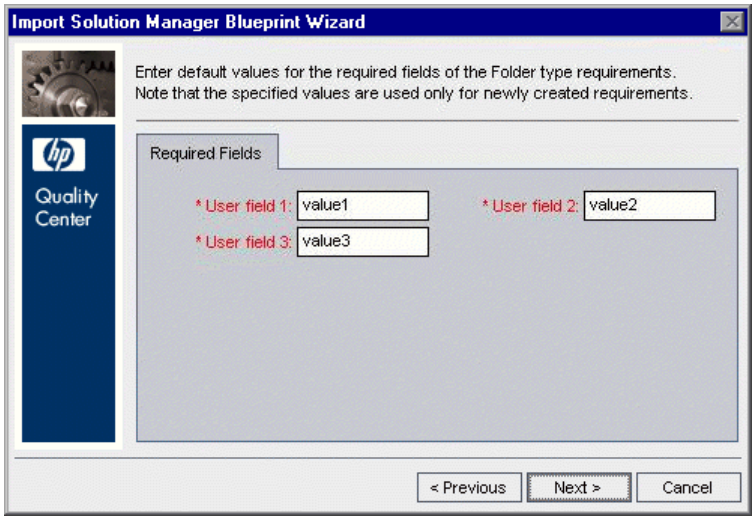
For each administrative keyword in the **Keyword** column that you want to map to a user-defined field in the Requirements module, click the corresponding entry in the **QC Requirement Field** column and click the down arrow. Select the user-defined field in the Requirements module to which you want to map the administrative keyword. If you do not want to map an administrative keyword to a field in the Requirements module, select < **Undefined** >.

To sort by a column, click a column name.

Click **Next**.

9 The Required Fields dialog box opens.

Note: If your **Folder**, **Business**, or **Testing** requirements do not contain required fields, this dialog box is not displayed. Proceed to step 10 on page 42.



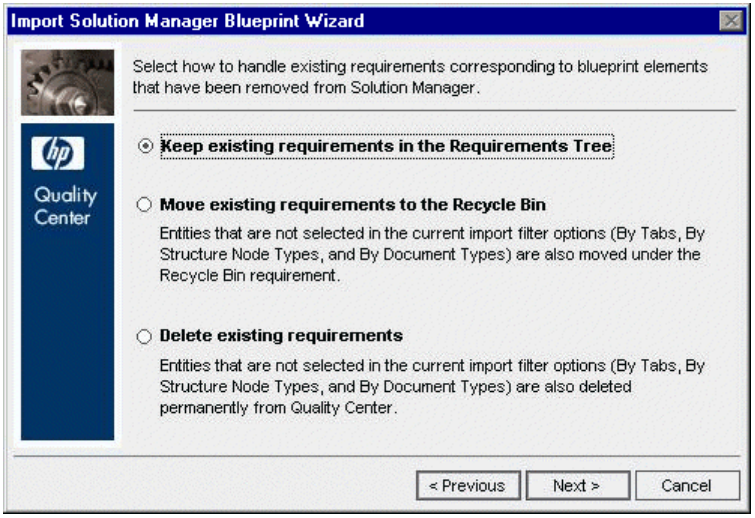
For each **Folder**, **Business**, or **Testing** requirement type that contains required fields, define the default values to be used when importing, reimporting, and upgrading blueprint elements. Note that the specified default values are used only for newly created requirements.

Click **Next**.

10 The Existing Requirements dialog box opens.

Note:

- If you are upgrading a project, this dialog box is not enabled. Proceed to step 11 on page 44.
- If you are importing blueprint elements to Quality Center for the first time, this dialog box is not displayed. Proceed to step 11 on page 44.



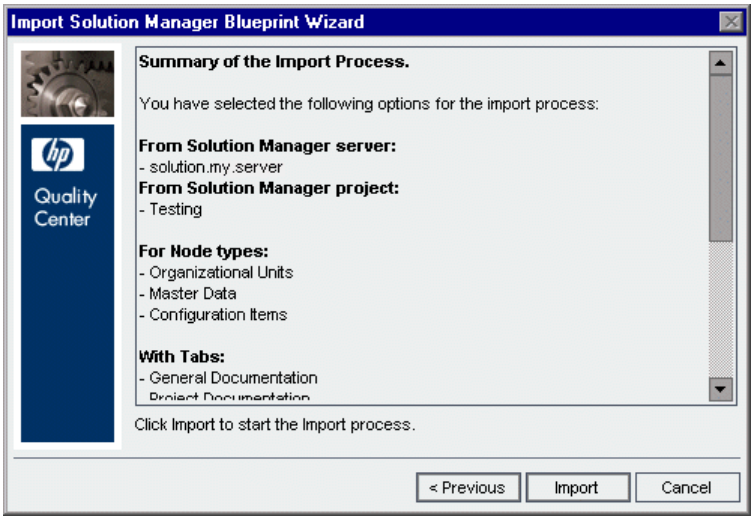
If you are reimporting blueprint elements, select how to handle existing requirements created from blueprint elements that were previously imported to Quality Center and have since been deleted from Solution Manager:

Option	Description
Keep existing requirements in the Requirements Tree	Leaves the existing requirements unchanged.
Move existing requirements to the Recycle Bin	Moves the existing requirements as child requirements of the **Recycle Bin** requirement. Note that entities that are not selected in the current import filter options (see step 6 on page 37) are also moved under the Recycle Bin requirement.
Delete existing requirements	Deletes the existing requirements permanently from your Quality Center project. Note that entities that are not selected in the current import filter options (see step 6 on page 37) are also deleted permanently from Quality Center.

For more information on reimporting blueprint elements, see "Reimporting Business Blueprints" on page 45.

Click **Next**.

11 The Summary dialog box opens.



To change any settings, click **Previous**.

To accept the settings, click **Import**. The business blueprint is imported as requirements to the Requirements module.

Note: It is recommended that you do not make changes to data imported to Quality Center.

Reimporting Business Blueprints

To keep your requirements in the Requirements module up-to-date, you can reimport your business blueprints to Quality Center. The reimporting process uses the following rules:

Rule for:	Description
New blueprint node	If a new blueprint node is added in Solution Manager, then a new requirement is added to the Requirements Tree in the appropriate place in the hierarchy.
Deleted blueprint node	If a blueprint node is deleted from Solution Manager, the existing requirement can be handled as follows: ➤ Leave the existing requirement unchanged. ➤ Move the existing requirement as child requirement of the **Recycle Bin** requirement. ➤ Delete the existing requirement permanently from your Quality Center project. For more information, see step 10 on page 42.
Changed blueprint node	If attributes of a blueprint node are changed, then the relevant fields of the existing requirement are updated accordingly.
Unchanged blueprint node	If a blueprint node did not change, the existing requirement remains unchanged.

To reimport business blueprint, follow the procedure described in "Importing Business Blueprints" on page 35.