

# HP Service Test Management

for the Windows operating system

Software Version: 11.00

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## Installation Guide

Document Release Date: February 2011

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# Welcome to This Guide

Welcome to the HP Service Test Management Installation Guide. Service Test Management is an extension for HP Application Lifecycle Management that allows you to manage application components such as Web Services, REST services, and others, within the Application Lifecycle Management repository. This guide describes how to install and set up HP Service Test Management.

- ▶ How This Guide Is Organized on page 5
- ▶ Who Should Read This Guide on page 7
- ▶ HP Service Test Management Online Documentation on page 7
- ▶ Additional Online Resources on page 7

## How This Guide Is Organized

This guide contains the following sections:

### **Section 1    Requirements for Service Test Management**

Provides the requirements and prerequisites for installing HP Service Test Management.

### **Section 2    The Installation Process**

Provides you with the information that helps you prepare for the installation process.

**Section 3     Deploying Service Test Management**

Describes how to deploy HP Service Test Management on Application Lifecycle Management 11.00.

**Section 4     Loading the Service Test Management License**

Describes the process for requesting and activating a license code for your copy of Service Test Management.

**Section 5     Undeploying Service Test Management**

Describes how to undeploy HP Service Test Management.

**Section 6     Enabling the Service Test Management Extension**

Describes how to enable the Service Test Management extension in Application Lifecycle Management.

**Section 7     Upgrading a Project from an Earlier Version**

Describes how to enable the Service Test Management extension in Application Lifecycle Management.

**Section 8     Installing the Service Test Add-in for Application Lifecycle Management**

Describes how to install the Service Test add-in for Service Test Management which adds several SOA utilities.

**Section 9     Installing Service Test Management 11.00 over Earlier Versions**

Describes how to install HP Service Test Management 11.00 on a machine with Quality Center.

**Section 10    Moving a Project to a Another Machine**

Describes how to move a project from one machine to another.

## Who Should Read This Guide

This guide is intended for users who need to install and set up HP Service Test Management.

Readers of this guide should have some knowledge of system administration.

## HP Service Test Management Online Documentation

Service Test includes the following online documentation:

**Readme** provides last-minute news and information about Service Test Management. You access the Readme from Installation folder.

**Books Online/Printer-Friendly Documentation** includes PDF versions of the documents. Click the **Help** button and choose **Books Online**.

**Online Help** is available from specific Service Test Management windows by clicking in the window and pressing **F1** or clicking the **Help** button.

## Additional Online Resources

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# Setting Up Service Test Management

This chapter describes the installation requirements and setup procedures for using Service Test Management in Application Lifecycle Management.

This chapter includes:

- ▶ Requirements for Service Test Management on page 10
- ▶ The Installation Process on page 10
- ▶ Deploying Service Test Management on page 11
- ▶ Loading the Service Test Management License on page 14
- ▶ Undeploying Service Test Management on page 15
- ▶ Enabling the Service Test Management Extension on page 17
- ▶ Upgrading a Project from an Earlier Version on page 18
- ▶ Installing the Service Test Add-in for Application Lifecycle Management on page 19
- ▶ Installing Service Test Management 11.00 over Earlier Versions on page 21
- ▶ Moving a Project to a Another Machine on page 21

## Requirements for Service Test Management

To use Service Test Management 11.00, you must have the following installed:

- ▶ Server machine: Application Lifecycle Management 11.00 with Patch 2 and higher.
- ▶ Client machine: Recommended Service Test version 11.00, and the Service Test 9.50 Add-in for Application Lifecycle Management with the 9.53 patch.

The minimum system requirements to run Service Test Management are the same as for Application Lifecycle Management, as described in the *HP Application Lifecycle Management Installation Guide*.

## The Installation Process

This section describes the Service Test Management installation process.

**To install Service Test Management:**

- 1 Ensure that Application Lifecycle Management 11.00 with Patch 2 or higher is installed on your server machine.**

For more information on installing Application Lifecycle Management, refer to the *HP Application Lifecycle Management Installation Guide*.

- 2 Deploy the Service Test Management 11.00 extension on your server machine.**

Deploy the Service Test Management extension as described in “Deploying Service Test Management” on page 11.

- 3 Load the Service Test Management license.**

For more information, see “Loading the Service Test Management License” on page 14.

- 4 Update the database repository.**

If you are updating from version 10.xx to version 11.00, perform an upgrade on the repository. For more information, see “Upgrading a Project from an Earlier Version” on page 18.

## 5 Install Service Test or the Service Test Add-in for Application Lifecycle Management.

To use all the features in Service Test Management, you must install HP Service Test 11.00. Alternatively, you can install the Service Test Add-in for Application Lifecycle Management (add-in version 9.50 and patch 9.53) on each client machine. Earlier versions of Service Test or of the add-in, are not compatible with Service Test Management 11.00.

For more information on installing the Service Test Add-in, see “Installing the Service Test Add-in for Application Lifecycle Management” on page 19.

## Deploying Service Test Management

The HP ALM Platform Extension Deployment Tool enables you to deploy HP ALM Platform extensions.

To enable the extensions to work with ALM, the tool validates extension (.**qcx**) files and updates archive (.**war**) files that can then be deployed on the application server. Once deployed, changes to the archive files take effect.

For additional information on installing ALM and its extensions, see the *HP Application Lifecycle Management Installation Guide* and the documentation for the relevant extensions. For information on enabling an extension for a project, see the *HP Application Lifecycle Management Administrator Guide*.

### To deploy extensions:

- 1 Prerequisites:** Consider the following before running the tool:
  - a** Extension (.**qcx**) file names and locations should not be changed.
  - b** When working with a clustered HP ALM Platform server, deploy extensions on all ALM nodes.
- 2** Log in to the HP ALM Platform server with the appropriate permissions.

- 3 Start the extension deployment tool on the HP ALM Platform server using one of the following methods.

Platform	To deploy:
<b>Windows</b>	<p>Choose <b>Start &gt; Programs &gt; HP ALM Platform &gt; Extension Deployment Tool &gt; Deploy</b>.</p> <p>Proceed to step 4.</p>
<b>UNIX (UI mode)</b>	<p>Navigate to the <code>/opt/HP/HP_ALM_Platform</code> directory and enter the command:</p> <pre data-bbox="562 517 976 545">./run_extension_deploy_tool.sh -deploy</pre> <p>Proceed to step 4.</p>
<b>UNIX (silent console mode)</b>	<p>Navigate to the <code>/opt/HP/HP_ALM_Platform</code> directory and enter the command:</p> <pre data-bbox="562 687 1150 746">./run_extension_deploy_tool.sh -silent -deploy - P"&lt;ext1_path&gt;" [-P"&lt;ext2_path&gt;"] ... [-P"&lt;extN_path&gt;"]</pre> <p><b>ext1_path</b> is the absolute path to the <code>.qcx</code> file for the first extension you want to deploy.</p> <p><b>Example:</b> To deploy two extensions:</p> <pre data-bbox="562 878 1162 937">./run_extension_deploy_tool.sh -silent -deploy - P"/temp/EXTENSION1.qcx" -P"/temp/EXTENSION2.qcx"</pre> <p><b>Tips:</b></p> <p>To see all deployed extensions in the current node:</p> <pre data-bbox="562 1027 953 1055">./run_extension_deploy_tool.sh -view</pre> <p>To see instructions for running the tool:</p> <pre data-bbox="562 1100 919 1128">./run_extension_deploy_tool.sh /?</pre> <p>Proceed to step 7.</p>

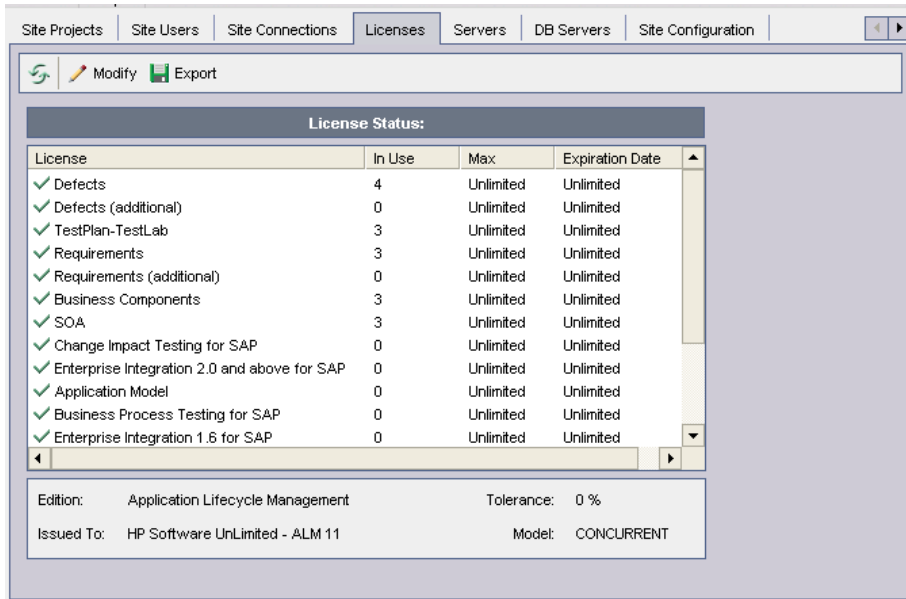
- 4 The Welcome dialog box opens. Click **Next** and follow the wizard.
- 5 Click **Add** and browse for the **MSTM.qcx** file on the DVD or the download folder.
  - If you are working with a JBoss application server:
    - The tool automatically deploys the archive files (ALM and extension war files).
    - By default, the tool starts JBoss when it finishes. To prevent JBoss from starting, on the **Finish** page of the wizard, clear the **Start JBoss** check box.
  - When using another application server, deploy ALM manually after the tool completes. The tool displays the location of the archive files (by default the HP/ALM/deployment/qcbin.war folder). Restart ALM after deploying the files.
- 6 Click **Finish**.
- 7 You can view the log file to see details on the operations performed and the status of the deployment. Errors are displayed in red.
  - On Windows:  
%ALLUSERSPROFILE%\Application  
Data\HP\ALM\log\Extension\_deployment\_tool\_<datetime>
  - On UNIX:  
/var/opt/HP/ALM/log/Extension\_deployment\_tool\_<datetime>

## Loading the Service Test Management License

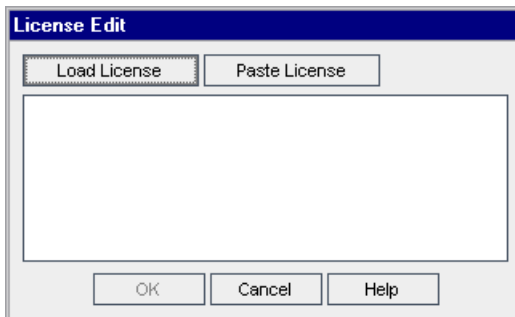
After installing Service Test Management on your Application Lifecycle Management server, you must load your Service Test Management license in Site Administration to enable the **Application Components** module in Application Lifecycle Management.

**To load the Service Test Management license:**

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



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



- 3** Click the **Load License** button and select the Service Test Management license file. Alternatively, copy the license file and click **Paste License**.
- 4** Click **OK**. The SOA license is displayed in the list of HP Quality Center licenses.

## Undeploying Service Test Management

The HP ALM Platform Extension Deployment Tool enables you to undeploy HP ALM Platform extensions, such as Service Test Management.

To disable the extensions from working with ALM, the tool updates archive (**.war**) files that can then be deployed on the application server. Once deployed, changes to the archive files take effect.

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**Important:** Projects whose enabled extensions were undeployed are no longer active.

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For additional information on uninstalling ALM and its extensions, see the *HP Application Lifecycle Management Installation Guide* and the documentation for the relevant extensions.

**To undeploy extensions:**

- 1** Log in to the HP ALM Platform server with the appropriate permissions.
- 2** Start the extension deployment tool on the HP ALM Platform server using one of the following methods.

Platform	To undeploy:
<b>Windows</b>	<p>Choose <b>Start &gt; Programs &gt; HP ALM Platform &gt; Extension Deployment Tool &gt; Undeploy</b>.</p> <p>Proceed to step 3.</p>
<b>UNIX (UI mode)</b>	<p>Navigate to the <code>/opt/HP/HP_ALM_Platform</code> directory.</p> <p>Enter the command:</p> <pre>./run_extension_deploy_tool.sh -undeploy</pre> <p>Proceed to step 3.</p>
<b>UNIX (silent console mode)</b>	<p>Navigate to the <code>/opt/HP/HP_ALM_Platform</code> directory.</p> <p>Enter the following command to retrieve a list of deployed extensions by name:</p> <pre>./run_extension_deploy_tool.sh -view</pre> <p>Enter the command:</p> <pre>./run_extension_deploy_tool.sh -silent -undeploy -N"&lt;ext1_name&gt;" [-N"&lt;ext2_name&gt;" ... [-N"&lt;extN_name&gt;"]</pre> <p><b>ext1_name</b> is the name of the first extension to undeploy.</p> <p><b>Example:</b> To undeploy two extensions:</p> <pre>./run_extension_deploy_tool.sh -silent -undeploy -N"EXTENSION1" -N"EXTENSION2</pre> <p><b>Tip:</b></p> <p>To see instructions for running the tool:</p> <pre>./run_extension_deploy_tool.sh /?</pre> <p>Proceed to step 5.</p>

- 3** The Welcome dialog box opens. Click **Next** and follow the wizard.



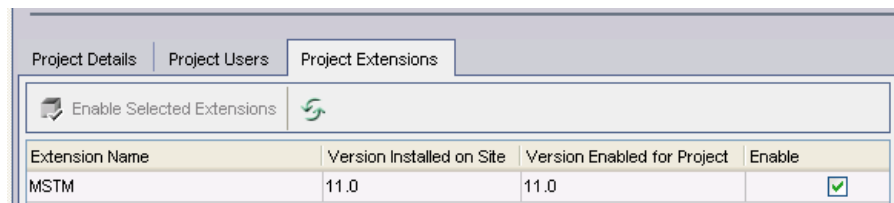
- 4 Select the **MSTM** extension's check box and click **Next**.
- 5 The Undeployment Summary screen opens. Click **Next**.
  - ▶ If you are working with a JBoss application server:
    - ▶ The tool automatically undeploys the archive files (ALM and extension war files).
    - ▶ By default, the tool starts JBoss when it finishes. To prevent JBoss from starting, on the Finish page of the wizard, clear the **Start JBoss** check box.
  - ▶ When using another application server, undeploy ALM manually after the tool completes. The tool displays the location of the archive files. Restart ALM after undeploying the files.
- 6 Click **Finish**.

## Enabling the Service Test Management Extension

You enable the Service Test Management extension for each project.

**To enable the Service Test Management extension for a project:**

- 1 In Site Administration, click the **Site Projects** tab.
- 2 In the Projects list, select a project. In the right pane, click the **Project Extensions** tab. This tab is available only if you have a license for at least one extension and the extension is installed on the Application Lifecycle Management server. The Extensions list is displayed, listing extensions installed on the Application Lifecycle Management server.



Extension Name	Version Installed on Site	Version Enabled for Project	Enable
MSTM	11.0	11.0	<input checked="" type="checkbox"/>

- 3 Select **MSTM** in the **Extension Name** column. Select the check box in the **Enable** column.



- 4 To refresh the Extensions list, click the **Refresh** button.

- 5 Verify that the **Version Enabled for Project** is 11.0.

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**Important:** You cannot disable an extension for a project after you enable it.

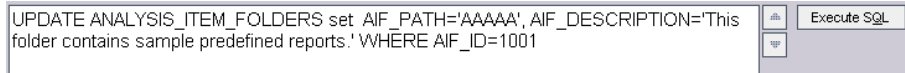
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## Upgrading a Project from an Earlier Version

You can upgrade database repositories from Service Test Management 10.xx using Application Lifecycle Management's Maintenance tools. This upgrade will safely import your data into the 11.00 repository.

### To upgrade a project:

- 1 It is recommended that you backup your original project before the upgrade.
- 2 Before upgrading, you must rename the mstm folder under the project's repository, to MSTM (upper case:). The default location of this folder is C:\Program Files\HP\Quality Center\repository\qc\Default\- 3 Enter the Site Administration area, and click the **Site Projects** tab.
- 4 In the **Projects** list, select a project.
- 5 Due to a limitation in ALM, when upgrading from version 10.01, you must perform the following step during the upgrade. Select the **ANALYSIS\_ITEM\_FOLDERS** table and paste the following into the SQL area:  
update ANALYSIS\_ITEM\_FOLDERS set AIF\_PATH='AAAAA',  
AIF\_DESCRIPTION='This folder contains sample predefined reports.' where  
AIF\_ID=1001. Click **Execute SQL**.



```
UPDATE ANALYSIS_ITEM_FOLDERS set AIF_PATH='AAAAA', AIF_DESCRIPTION='This folder contains sample predefined reports.' WHERE AIF_ID=1001
```

This step is not required when upgrading from version 10.50.



- 6 Expand the **Maintain Project** button. and select **Upgrade Project**.

- 7 Read the guidelines in the wizard and click **Upgrade Project**. The Upgrade Project window displays the results.

For details, see the *Application Lifecycle Management Administrator's Guide*.

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**Note:** Changes made in Customization to the Web services parser GUID and supported file extensions, are not retained after upgrading.

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## Installing the Service Test Add-in for Application Lifecycle Management

The Service Test Add-in for Application Lifecycle Management provides extended functionality to Service Test Management, enabling you to do the following in the Application Components module:

- ▶ Import service WSDL files from a file system, URL, UDDI or Systinet server.
- ▶ Import service WSDL files that reside in secure locations or that are accessed through proxy servers.
- ▶ Perform spot testing for Web services.

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**Note:** The functionality provided by the Service Test add-in is included in Service Test. If you have already installed Service Test on your Application Lifecycle Management client machine, or you intend to install it before using Service Test Management, you do not need to install this add-in.

Service Test 11.10 and higher, allows you to use the Generate Requirements and Tests wizard for creating automatic testing plans for your components. This capability is not available with the Service Test add-in or Service Test versions prior to 11.10.

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If you do not install the add-in, you can still use the Application Components module in Viewer mode. This mode is suitable for business services users, such as QA managers and SOA architects who want to view data on the quality process, create component coverage, link application components to requirements and tests, and produce reports or graphs.

You can install the Service Test Add-in for Application Lifecycle Management from the following locations:

- ▶ Service Test Management installation DVD. To install the add-in, run the **ServiceTestPlugin.exe** file.
- ▶ Application Lifecycle Management Add-ins page.

## **Installing the Add-in from the Add-ins Page**

You can install the Service Test Add-in from the Application Lifecycle Management Add-ins page.

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**Note:** To install this add-in, you must log in with administrator privileges.

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### **To install the add-in from the Application Lifecycle Management Add-ins page:**

- 1** Open your Web browser and type your Application Lifecycle Management URL:  
  
`http://<Application Lifecycle Management server name>[<:port number>]/qcbn.`  
  
The HP Application Lifecycle Management Options window opens.
- 2** Click the **Add-ins** page link. The Application Lifecycle Management Add-ins page opens.
- 3** Click the **More HP ALM Add-ins** link. The More HP Application Lifecycle Management Add-ins page opens.

- 4 In the **Application Lifecycle Management Administrator Add-ins** section, under **HP Tool Add-ins**, click the **HP Service Test Add-in for Application Lifecycle Management** link. The HP Service Test Add-in for Application Lifecycle Management page opens.
- 5 Click the **Download HP Service Test Add-in for Application Lifecycle Management** link to download the add-in.
- 6 Follow the on-screen installation instructions.

## Installing Service Test Management 11.00 over Earlier Versions

To install Service Test Management 11.00 on the same server upon which a previous version was installed, you need to perform a complete uninstall.

- 1 Uninstall all Quality Center extensions.
- 2 Uninstall Quality Center 10.xx.
- 3 Install Application Lifecycle Management 11 and Patch 2 or higher. Select a default repository for a new installation. Choose the same DB server and connect to existing schema using the **Copy & Upgrade** option.

## Moving a Project to a Another Machine

This section describes how to move a project from one machine to another and perform an upgrade on the project. This is useful if you already have a machine with Application Lifecycle Management 11.00.

**To move a project:**

- 1 On the source machine, launch **Site Administration** from the Application Lifecycle Management homepage. Provide credentials and log in.
- 2 In the left pane's Project list, select a project and choose **Remove Project**. This will not delete the project repository or database—it only removes the reference to the project from the site.
- 3 Copy the source project from the source machine, to the target machine, into the Application Lifecycle Management repository folder.

**Note:** If the local path of the repository on the target machine differs from that of the source machine, you need to edit the **dbid.xml** file in the repository on the source machine. Open the file and update the `PHYSICAL_DIRECTORY` element to the correct path.

- 4** On the target machine, launch **Site Administration**. Provide credentials and log in.
- 5** Select the **DB Servers** tab and verify that there is a database with the same name as the original machine with the earlier version.
- 6** Locate the **dbid.xml** file in the project repository. Verify that the database details are correct.
- 7** Select a domain on the target machine and select **Restore Project** from the right-click menu. This references the copied project with the same project database.