

HP Project and Portfolio Management Center

Software Version: 7.1

System Requirements and Compatibility Matrix

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

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The following table indicates changes made to this document.

Publication Date	Summary of Changes
May 25, 2007 (SP1)	<ul style="list-style-type: none">■ Added Oracle 9.2.0.8 support for the PPM Center database■ Updated support or desupport information for HP Deployment Management Extension for Oracle E-Business Suite and HP Deployment Management Extension for Oracle Technology■ Updated HP-UX support for PPM Center (both server and database)■ Re-instated support for OpenSSH 3.9p1 for Red Hat Advance Server 4.0
June 22, 2007 (SP2)	<ul style="list-style-type: none">■ Added details about Export to Excel problems with Internet Explorer
August 6, 2007 (SP3)	<ul style="list-style-type: none">■ Added Oracle 10.2.0.3 support for the PPM Center database■ Updated the chipset requirements for IBM AIX platforms■ Revised the browser requirements■ Updated third-party single sign-on application references with their current product name and vendor
October 22, 2007 (SP4)	<ul style="list-style-type: none">■ Added details about national language support■ Added HP-UX 11i v3 support for PPM Center server and database
December 20, 2007 (SP5)	<ul style="list-style-type: none">■ Added support for Microsoft Office Excel and Project 2007
March 10, 2008 (SP6)	<ul style="list-style-type: none">■ Updated URLs to reflect HP Web sites■ Added support for Document Management 5.3 SP5■ Added support for Microsoft Windows Server 2003 R2 SP2, Standard and Enterprise Editions■ Updated minimum required processor speed for PA-RISC environments■ Updated patch requirements for Oracle 10.2.0.3■ Updated support for Microsoft Project 2007■ Added Turkish language support

Publication Date	Summary of Changes
May 20, 2008 (SP7)	<ul style="list-style-type: none"> ■ Added 64-bit support for Linux platforms ■ Updated Extension support with 7.1.0 EOESP1 and 7.1.0 EOTSP1
July 31, 2008 (SP8)	<ul style="list-style-type: none"> ■ Added Vista client support ■ Added Oracle 10.2.0.4 support for the PPM Center database ■ Updated HP Deployment Management Extension for Oracle E-Business Suite and Object Migrator support
September 30, 2008	<ul style="list-style-type: none"> ■ Added Microsoft Internet Explorer requirements ■ Expanded support statement
November 17, 2008	<ul style="list-style-type: none"> ■ Updated Java support information ■ Desupported Document Management DFC version 5.3 SP2 for IBM AIX platforms ■ Updated the IBM AIX platforms details
March 31, 2009 (SP10)	<ul style="list-style-type: none"> ■ Added support for Document Management 5.3 SP6
July 31, 2009 (SP11)	<ul style="list-style-type: none"> ■ Added support for Java 1.5 for Business on Microsoft, Sun, Red Hat, and SUSE platforms ■ Added support for Windows XP Professional SP3



The change bars in the left margins reflect the modifications made in the *most recent* version of the guide—these change bars are not cumulative.

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1 Introduction

In This Chapter:

- *About This Guide*
 - *An Overview of the PPM Center Architecture*
 - *An Overview of National Language Support*
 - *Related Information*
-

About This Guide

Welcome to HP Project and Portfolio Management Center (PPM Center). This goal of this document is to provide you with the details that will allow you to understand the hardware and software options available for your deployment of PPM Center.

This document provides the details about the environments and products supported by HP for version 7.1. Additionally, this guide identifies required third-party software as well as software that can be used to enable optional features, functionality, and topologies.

An Overview of the PPM Center Architecture

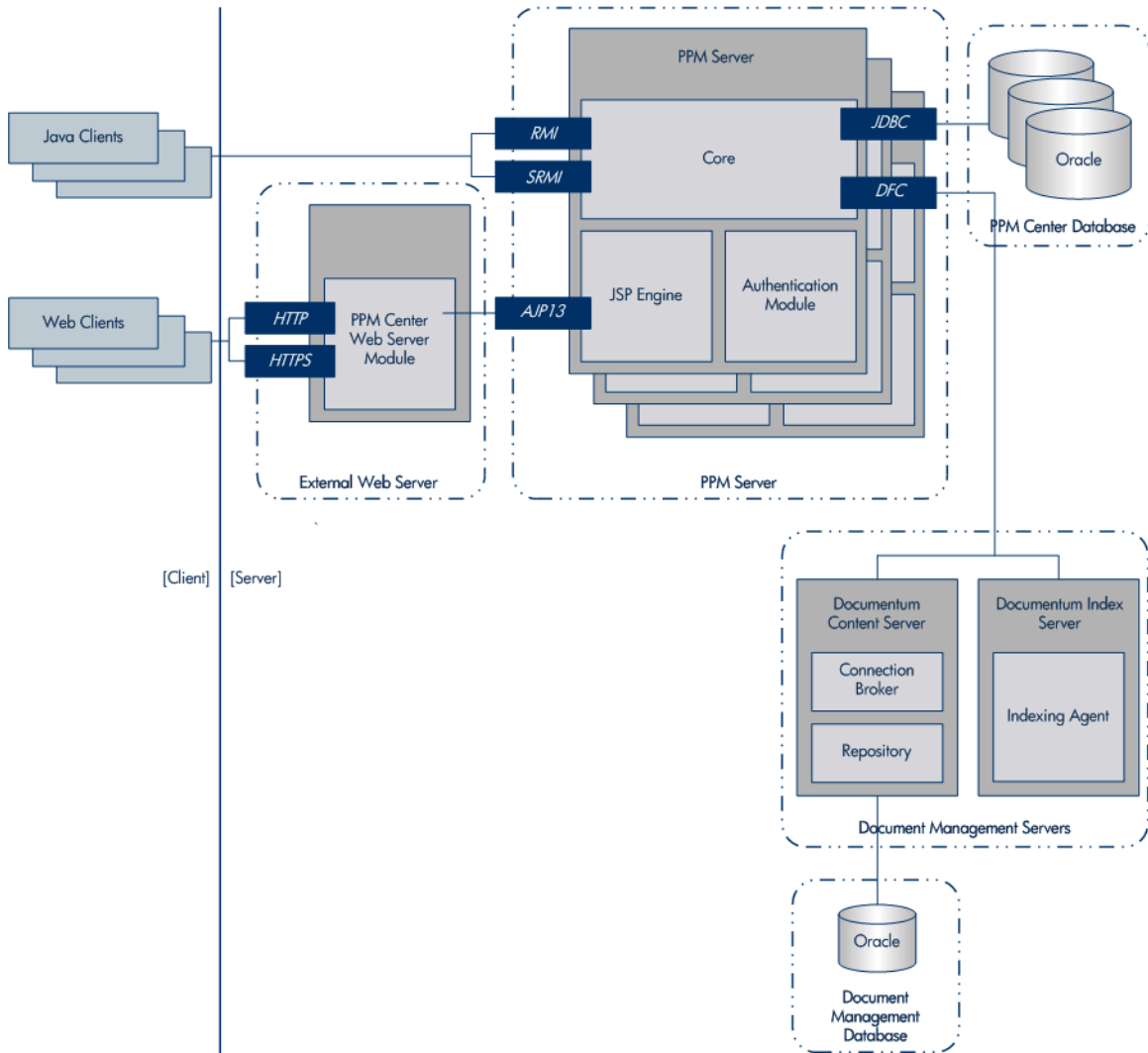
PPM Center employs a three-tier, client-server architecture as shown in the following conceptual diagram (*Figure 1-1*). Refer to the *System Administration Guide and Reference* for details about the available system configuration options.

Chapter 2, Client-Side Products and Environments, on page 19 provides details about the requirements and optional software used in the client tier. These components are identified in the client-side (left) portion of *Figure 1-1*.

Chapter 3, Server-Side Products and Environments, on page 25 focuses on the hardware and software requirements for the application and database tiers. The major components of these tiers are identified the server-side (right) portion of *Figure 1-1*.

In addition the application and database tier components, the server-side chapter also provides details about the optional Web server and Document Management components (also shown in *Figure 1-1*).

Figure 1-1. PPM Center architecture



Although not shown in the previous figure, PPM Center is able to integrate with most industry standard single sign-on systems such as CA SiteMinder, Oracle Identity Management, RSA Sign-On Manager, and IBM Tivoli Access Manager.



HP will support single sign-on integration to the extent that the HP API is used for this purpose. HP will provide logging information so that customers and third-party vendors can troubleshoot the integration themselves. HP will not set up the third-party system for debugging purposes. HP does not commit to changing any HP-produced code should the integration fail.

Chapter 4, *HP Migrator and Extension Products and Environments*, on page 99 details the third-party software supported for the PPM Center Extensions and Migrators.

For support information about HP Accelerators, HP Adapters, and any PPM Center integrations, see the documentation that accompanies those products.

Chapter 5, *Desupported Platforms and Products*, on page 109 provides details on the platforms and products that have been desupported with the release of this software version.

An Overview of National Language Support

The principal areas of the PPM Center user interface are available with translations for the following languages:

- Brazilian Portuguese
- French
- German
- Italian
- Korean
- Spanish
- Turkish (support starting with SP6)

These language packs are installed (or upgraded) and maintained on English-language instances of PPM Center. For each language, see the corresponding Readme for additional system requirements as well as details about the installation of any required Service Packs. Also, see the language pack Release Notes for late-breaking information.

Related Information

Selected information from the following documents can assist you with your planning and deployment activities:

- *System Administration Guide and Reference*

This guide includes initial product installation procedures as well as configuration, operation, maintenance, migration, and performance information.

In particular, this guide provides an overview of the PPM Center architecture and optional configurations—this information can help you determine the optimal configuration of your deployment.

- *Document Management Guide and Reference*

This guide provides additional details about the hardware and software requirements used to support HP Document Management. Implementation of this functionality has notable topological impact.

- *Release Notes* and *Readme* files

These documents provide late-breaking information that may affect your installation and deployment of PPM Center.

These guides include initial product installation procedures as well as configuration, operation, maintenance, migration, and performance information.



Before any installation, read the Release Notes for the version you are installing and, if you are installing a language pack, also review the Readme file for the language pack.

2 Client-Side Products and Environments

In This Chapter:

- *Overview of Client-Side Support*
 - *Platform and Browser Requirements*
 - *National Language Support*
 - *PPM Workbench Requirements*
 - *Java Plug-In Requirements*
 - *Disk Space Requirements*
 - *Optional Products*
 - *Microsoft Project*
 - *Microsoft Excel*
 - *Language Support for Non-English Applications*
-

Overview of Client-Side Support

The following sections provide information about Web client environment requirements for both the PPM Center standard interface and the PPM Workbench as well as support for optional, third-party, client-based products.

Platform and Browser Requirements

Table 2-1 lists the supported client platforms and browsers.

Table 2-1. Browser requirements

Client Operating Systems	Supported Browsers
<ul style="list-style-type: none"> ■ Microsoft® Windows® XP Professional SP1 ■ Microsoft Windows XP Professional SP2 ■ Microsoft Windows XP Professional SP3 (support starting with SP10) ■ Microsoft Vista (support starting with SP8) 	<ul style="list-style-type: none"> ■ Microsoft Internet Explorer 6.0 SP2 ^{b, e} ■ Microsoft Internet Explorer 7.0 ^{c, f} ■ Mozilla Firefox 1.5.x ^a ■ Mozilla Firefox 2.0.x ^{a, d}

a. Use version 1.5.0_06 (5.0 update 6) of the Sun Java plug-in with Mozilla Firefox.

b. Due to the default security settings in Internet Explorer 6.0, users cannot export to Microsoft Excel from maximized portlet views when accessing PPM Center using https. As a workaround, users should deselect the “Do not save encrypted pages” option in their Internet Explorer 6.0 settings.

c. Due to the default security settings in Internet Explorer 7.0, users cannot export to Microsoft Excel from maximized portlet views. As a workaround, Microsoft Windows XP users could use the Mozilla Firefox browser.

d. There is a known defect in Firefox version 2 with the browser’s auto-complete behavior—a field’s “onchange” event is not invoked when the user chooses a suggested value in a form field. This can interfere with PPM Center form validation logic, and, in some cases, permit an invalid or partial value to be stored on a record in PPM Center with no warning to the user. Such problem can be difficult to track down; therefore, it is important for Firefox 2.0 users to disable this behavior in their browsers. A user can disable Firefox’s auto-complete behavior by navigating to **Tools > Options > Privacy** and deselecting **Remember what I enter in forms and the search bar**.

e. The following security settings must be enabled for the zone in which PPM Center is run:

- Run ActiveX controls and plug-ins
- Script ActiveX controls marked safe for scripting

Access these settings using **Tools > Internet Options > Security Tab**.

HP recommends using the default settings for the Internet zone.

f. The ActiveX security settings required for Microsoft Internet Explorer 6.0 SP2 are not required for Microsoft Internet Explorer 7.0 provided the following setting is enabled:

- Enable native XMLHTTP support

Access this setting using **Tools > Internet Options > Advanced Tab > Security (Section)**.

Clients should have a 1.0 GHz (or faster) processor.

Clients running the PPM Workbench need at least 1 GB of RAM.

Clients not running the PPM Workbench need at least 512 MB of RAM.

Adobe Acrobat Reader 5.0 (or later) is also required.

National Language Support

To support the languages listed in [Chapter 1, Introduction](#), on page 13, clients must be configured with the same language as that provided on the PPM Center instance.

For example, if your PPM Center instance has the French language pack installed, all clients that access this instance should be configured to use French.

PPM Workbench Requirements

Java Plug-In Requirements

Access to the PPM Workbench requires an appropriate version of the Sun Java plug-in installed.

Supported versions include:

- 1.5.0_02 (5.0 update 2) or later

Note: 1.4.2_06 or later has been desupported starting with SP9.

The Java plug-in is automatically installed the first time a user accesses the PPM Workbench.

Disk Space Requirements

User machines that access the PPM Workbench require 40 MB of disk space more than is required by the browser. This space is required to store client-side Java files.

Optional Products

This section lists the optional products that can be used with PPM Center version 7.1.

Microsoft Project

HP Project Management supports the following versions of Microsoft Project:

- Microsoft Project 2000 Standard Edition SP1
- Microsoft Project 2002 Standard Edition
- Microsoft Project 2002 Professional Edition
- Microsoft Project Standard 2003
- Microsoft Project Professional 2003 (single-user or connected to Microsoft Office Project Server 2003)
- Microsoft Office Project Standard 2007 (support starting with SP5)
- Microsoft Office Project Professional 2007 (single-user) (support starting with SP5) (connected to Microsoft Project Server 2007) (support starting with SP6)

[For More Information](#)

For more information about using Microsoft Project with HP Project Management, see the *HP Project Management User's Guide*.

Microsoft Excel

The following versions of Microsoft Excel are supported:

- Microsoft Excel 2000 Standard Edition
- Microsoft Excel 2002 Standard Edition
- Microsoft Office Excel 2003
- Microsoft Office Excel 2007 (support starting with SP5)

Language Support for Non-English Applications

The optional products should use the corresponding language of the clients (and PPM Center instance).

For example, if your PPM Center instance has the French language pack installed, all clients (used to access this instance), along with these optional products, should use French.



Do not attempt to use PPM Center with software products that have a mix of languages, such as a French PPM Center instance with a German client and an Italian version of Excel software. All the software products used in your PPM Center deployment should rely on the same language.

3 Server-Side Products and Environments

In This Chapter:

- *Overview of Server-Side Support*
 - *Important Considerations*
 - *PPM Server*
 - *Microsoft Platforms*
 - *Sun Platforms*
 - *HP Platforms*
 - *IBM Platforms*
 - *Red Hat Platforms*
 - *SUSE Platforms*
 - *Hardware Sizing Estimates*
 - *Email Server Requirements*
 - *PPM Center Database*
 - *Microsoft Platforms*
 - *Sun Platforms*
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 - *Sun Platforms*
 - *HP Platforms*
 - *IBM Platforms*
 - *Red Hat Platforms*
 - *SUSE Platforms*
 - *Document Management Database Sizing Recommendations*
 - *External Web Servers*
-

Overview of Server-Side Support

The following sections list the requirements for the PPM Center server-side components. Details specific to each component are documented in their own section. For your convenience the information is further categorized by platform and each section includes additional important information and considerations, if necessary.

Important Considerations

Carefully consider each of the following during your planning and deployment phases of PPM Center:

- Oracle® Support
 - All installed Oracle versions should include the most recent patches and follow the guidelines provided in the latest *Critical Patch Update*. This information is available from <https://metalink.oracle.com>.

Throughout this guide, any Oracle patches or similar updates that are critical for PPM Center support are noted.
 - Standard Edition One as well as the Standard and Enterprise Editions of the Oracle database versions are supported.
 - HP supports 32-bit and 64-bit Oracle for the versions and operating systems supported by PPM Center. These are subject to the hardware and operating system requirements established by Oracle. If you install PPM Center on a single server machine sharing both the application server and database, HP does not support use of 64-bit JVMs.
- Operating System Support
 - Support for each operating system version assumes that the appropriate patch or patches have been applied to support the Java 2 JDK installation on that system.
 - On x86 platforms, the distinction is made whether HP supports the 32- or 64-bit version of the operating system (Windows or Linux). On other platforms such as Sun SPARC, IBM Power4/5, and HP PA-RISC or Itanium, HP does support their respective 64-bit UNIX operating system.

- VMware Support

- Where VMware ESX Server 2.5 on x86 platforms is supported, PPM Center version 7.1 is expected to function properly in virtual environments for which HP has explicitly stated support; however, there may be functional and performance implications. HP will not require customers to re-create and troubleshoot every issue in a non-VMware environment; however, HP does reserve the right to request that customers diagnose certain issues in a native supported operating system environment without the virtual environment. HP will only make this request when there is reason to believe that the virtual environment is a contributing factor to the issue. If the issue cannot be reproduced in a supported non-virtual environment, customers will need to refer their issues to VMware. VMware-specific problems must be handled by the customer and VMware.

- National Language Support

- All components of a PPM Center instance must be installed on English language operating systems. Unless otherwise specified, all PPM Center server-side components must use English language software or configurations—the only non-English software (or interface) must be provided through the PPM Center language packs.
- Implementation of the various languages requires additional configuration and maintenance. The most up-to-date details are found in the PPM Center *Release Notes* and the Readme files that accompany each of the language packs.
- National language support is *not* available for supplemental products of PPM Center such as the Document Management module and the Migrators and Extensions.

- Java Development Kit Support

- Support for the Java 1.4 software provided by Sun ended as of October 30, 2008 (see <http://java.sun.com/products/archive/eol.policy.html> for details).

Consequently, as of Service Pack 9 Java 1.4 has been desupported for use on all PPM Server platforms (as well as PPM Center clients accessing the PPM Workbench).

A side-effect of this change is that some of the earlier patch levels of IBM AIX are no longer supported. This change further results in desupport of the Document Management DFC software version 5.3 SP2 on IBM AIX platforms. For IBM AIX platforms, DFC version 5.3 SP5 can be used with versions 5.3 SP2 and 5.3 SP5 of the Document Management Content and Index servers, and DFC version 5.3 SP6 can

be used with versions 5.3 SP2, 5.3 SP5, and 5.3 SP6 of the Document Management Content and Index servers.

PPM Server

Microsoft Platforms

Table 3-1. PPM Server requirements on Microsoft platforms (page 1 of 4)

Operating System	Requirements	Additional Information
Platform (without Document Management)		
One of the following: <ul style="list-style-type: none"> ■ Microsoft Windows Server 2003 SP1, Standard Edition ■ Microsoft Windows Server 2003 R2 SP2, Standard Edition (support starting with SP6) ■ Microsoft Windows Server 2003 SP1, Enterprise Edition ■ Microsoft Windows Server 2003 R2, Enterprise Edition ■ Microsoft Windows Server 2003 R2 SP2, Enterprise Edition (support starting with SP6) 	All of the following: <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 600 MB disk space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See <i>Hardware Sizing Estimates</i> on page 46 for additional considerations.
When installed on an x86 VMware ESX Server 2.5 partition, one of the following: <ul style="list-style-type: none"> ■ Microsoft Windows Server 2003 SP1, Standard Edition ■ Microsoft Windows Server 2003 SP1, Enterprise Edition 	One of the following processor options: <ul style="list-style-type: none"> ■ One Opteron in 32-bit mode ■ Two Pentium® III Xeon™ (900 MHz) Plus all of the following: <ul style="list-style-type: none"> ■ 3 GB RAM ■ 600 MB disk space for installed files ■ 400 MB temporary space for installation files 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ Remote Management of ESX is required. ■ For system sizing impact, contact HP support (hp.com/go/hpsoftwaresupport)

Table 3-1. PPM Server requirements on Microsoft platforms (page 2 of 4)

Operating System	Requirements	Additional Information
Platform (with Document Management)		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ Microsoft Windows Server 2003 SP1, Standard Edition ■ Microsoft Windows Server 2003 SP1, Enterprise Edition 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 600 MB disk space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP2 must be installed.
<p>Version 5.3 SP5 (support starting with SP6) The following:</p> <ul style="list-style-type: none"> ■ Microsoft Windows Server 2003 R2, Enterprise Edition (32-bit only) 		<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP5 must be installed.
<p>Version 5.3 SP6 (support starting with SP10) The following:</p> <ul style="list-style-type: none"> ■ Microsoft Windows Server 2003 R2, Enterprise Edition (32-bit only) 		<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP6 must be installed.
JDK Software		
<p>For all of the Microsoft operating systems previously identified in this table</p>	<p>The following:</p> <ul style="list-style-type: none"> ■ Java 2 Platform, Standard Edition 5.0 (J2SE 5.0) JDK 1.5.0_11 (available from Sun) (support starting with SP9) ■ Java Platform, Standard Edition for Business (build 1.5.0_16) (available from Sun) (support starting with SP11) <p>Note: Starting with SP9, Sun Java JDK, Standard Edition 1.4.2_12 has been desupported.</p>	

Table 3-1. PPM Server requirements on Microsoft platforms (page 3 of 4)

Operating System	Requirements	Additional Information
Communications Software		
For all of the Microsoft operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ Microsoft Windows Services for UNIX® version 3.0 ■ Microsoft Windows Services for UNIX version 3.5 ■ Microsoft Telnet Services 	
Secure Communications Software		
For all of the Microsoft operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ VanDyke (VShell Server) version 2.6 ■ OpenSSH version 4.2 (included in Cygwin) ■ OpenSSH version 4.3p2 (included in Cygwin) 	During Cygwin installation, use the following settings: <ul style="list-style-type: none"> ■ Select All Users for the Install For field ■ Select Dos/text for the Default Text File Type field
Terminal Emulation Software		
For all of the Microsoft operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ “Dumb” mode ■ VT100 mode ■ VT220 mode 	

Table 3-1. PPM Server requirements on Microsoft platforms (page 4 of 4)

Operating System	Requirements	Additional Information
Other Software		
For all of the Microsoft operating systems previously identified in this table	The following: <ul style="list-style-type: none"> ■ SQL*Net ■ SQL*Plus 	<ul style="list-style-type: none"> ■ The Oracle client version should correspond to the version of the database used with the PPM Center instance. ■ SQL*Net must be configured to recognize the connection string of the Oracle database that contains the PPM Center database schema.
For all of the Microsoft operating systems previously identified in this table	(Optional) The following: <ul style="list-style-type: none"> ■ Email application configuration 	<ul style="list-style-type: none"> ■ If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 46 for details.
For all of the Microsoft operating systems previously identified in this table	The following: <ul style="list-style-type: none"> ■ Bourne shell 	<ul style="list-style-type: none"> ■ This software is included in the Cygwin utilities. ■ The Bourne shell (bash) must be available on both the source and destination servers.

Sun Platforms

Table 3-2. PPM Server requirements on Sun platforms (page 1 of 3)

Operating System	Requirements	Additional Information
Platform (without Document Management)		
One of the following: <ul style="list-style-type: none"> ■ Sun Solaris 9 ■ Sun Solaris 10 	All of the following: <ul style="list-style-type: none"> ■ UltraSPARC III (1050 MHz) ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations.
Platform (with Document Management)		
Version 5.3 SP2 One of the following: <ul style="list-style-type: none"> ■ Sun Solaris 9 ■ Sun Solaris 10 	All of the following: <ul style="list-style-type: none"> ■ UltraSPARC III (1050 MHz) ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP2 must be installed.
Version 5.3 SP5 (support starting with SP6) One of the following: <ul style="list-style-type: none"> ■ Sun Solaris 9 ■ Sun Solaris 10 		<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP5 must be installed.
Version 5.3 SP6 (support starting with SP10) One of the following: <ul style="list-style-type: none"> ■ Sun Solaris 9 ■ Sun Solaris 10 		<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP6 must be installed.

Table 3-2. PPM Server requirements on Sun platforms (page 2 of 3)

Operating System	Requirements	Additional Information
JDK Software		
For all of the Sun operating systems previously identified in this table	The following: <ul style="list-style-type: none"> ■ Java 2 Platform, Standard Edition 5.0 (J2SE 5.0) JDK 1.5.0_11 (available from Sun) (support starting with SP9) ■ Java Platform, Standard Edition for Business (build 1.5.0_16) (available from Sun) (support starting with SP11) <p>Note: Starting with SP9, Sun Java JDK, Standard Edition 1.4.2_12 has been desupported.</p>	
Secure Communications Software		
For: <ul style="list-style-type: none"> ■ Sun Solaris 9 	One of the following: <ul style="list-style-type: none"> ■ SSH-2.0_Sun_SSH_1.0 ■ AttachmateWRQ (Reflection for Secure IT) version 6.1 (formerly F-Secure SSH) ■ OpenSSH version 4.1p1 ■ OpenSSH version 4.3p2 	
For: <ul style="list-style-type: none"> ■ Sun Solaris 10 	One of the following: <ul style="list-style-type: none"> ■ SSH-2.0_Sun_SSH_1.1 ■ AttachmateWRQ (Reflection for Secure IT) version 6.1 (formerly F-Secure SSH) ■ OpenSSH version 4.1p1 ■ OpenSSH version 4.3p2 	
Terminal Emulation Software		
For all of the Sun operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ “Dumb” mode ■ VT100 mode ■ VT220 mode 	

Table 3-2. PPM Server requirements on Sun platforms (page 3 of 3)

Operating System	Requirements	Additional Information
Other Software		
For all of the Sun operating systems previously identified in this table	The following: <ul style="list-style-type: none"> ■ SQL*Net ■ SQL*Plus 	<ul style="list-style-type: none"> ■ The Oracle client version should correspond to the version of the database used with the PPM Center instance. ■ SQL*Net must be configured to recognize the connection string of the Oracle database that contains the PPM Center database schema.
For all of the Sun operating systems previously identified in this table	(Optional) The following: <ul style="list-style-type: none"> ■ Email application configuration 	<ul style="list-style-type: none"> ■ If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 46 for details.

HP Platforms

Table 3-3. PPM Server requirements on HP platforms (page 1 of 2)

Operating System	Requirements	Additional Information
Platform (without Document Management)		
One of the following: <ul style="list-style-type: none"> ■ HP-UX 11i v2 ■ HP-UX 11i v3 (support starting with SP4) 	One of the following processor options: <ul style="list-style-type: none"> ■ Itanium® 2 (1.4 GHz) ■ PA-RISC (1 GHz) (for HP-UX 11i v2 only) Plus all of the following: <ul style="list-style-type: none"> ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations.
Platform (with Document Management)		
Version 5.3 SP2 The following: <ul style="list-style-type: none"> ■ HP-UX 11i v2 	One of the following processor options: <ul style="list-style-type: none"> ■ Itanium 2 (1.4 GHz) ■ PA-RISC (1 GHz) Plus all of the following: <ul style="list-style-type: none"> ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP2 must be installed.
Version 5.3 SP5 (support starting with SP6) The following: <ul style="list-style-type: none"> ■ HP-UX 11i v2 Update 2 	One of the following processor options: <ul style="list-style-type: none"> ■ Itanium 2 (1.4 GHz) ■ PA-RISC (1 GHz) Plus all of the following: <ul style="list-style-type: none"> ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP5 must be installed.
Version 5.3 SP6 (support starting with SP10) The following: <ul style="list-style-type: none"> ■ HP-UX 11i v2 Update 2 	One of the following processor options: <ul style="list-style-type: none"> ■ Itanium 2 (1.4 GHz) ■ PA-RISC (1 GHz) Plus all of the following: <ul style="list-style-type: none"> ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP6 must be installed.

Table 3-3. PPM Server requirements on HP platforms (page 2 of 2)

Operating System	Requirements	Additional Information
JDK Software		
For all of the HP operating systems previously identified in this table	The following: <ul style="list-style-type: none"> ■ HP-UX Java Development Kit (JDK) for the Java 2 Platform Standard Edition (J2SE) version 5.0.07 (available from HP) (support starting with SP9) Note: Starting with SP9, HP-UX Java 2 JDK, Standard Edition version 1.4.2_11 has been desupported.	
Secure Communications Software		
For all of the HP operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ AttachmateWRQ (Reflection for Secure IT) version 6.1 (formerly F-Secure SSH) ■ OpenSSH version 4.1p1 ■ OpenSSH version 4.3p2 	
Terminal Emulation Software		
For all of the HP operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ “Dumb” mode ■ VT100 mode ■ VT220 mode 	
Other Software		
For all of the HP operating systems previously identified in this table	The following: <ul style="list-style-type: none"> ■ SQL*Net ■ SQL*Plus 	<ul style="list-style-type: none"> ■ The Oracle client version should correspond to the version of the database used with the PPM Center instance. ■ SQL*Net must be configured to recognize the connection string of the Oracle database that contains the PPM Center database schema.
For all of the HP operating systems previously identified in this table	(Optional) The following: <ul style="list-style-type: none"> ■ Email application configuration 	<ul style="list-style-type: none"> ■ If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 46 for details.

IBM Platforms

Table 3-4. PPM Server requirements on IBM platforms (page 1 of 3)

Operating System	Requirements	Additional Information
Platform (without Document Management)		
One of the following: <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL7 (or later) (support constrained in SP9) ■ IBM AIX 5L version 5.3 TL3 (or later) (support constrained in SP9) 	All of the following: <ul style="list-style-type: none"> ■ POWER4/POWER5 ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations.
Platform (with Document Management)		
Version 5.3 SP2 (desupported on IBM AIX platforms starting with SP9)		
Version 5.3 SP5 (support starting with SP6) One of the following: <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL9 ■ IBM AIX 5L version 5.3 TL5 	All of the following: <ul style="list-style-type: none"> ■ POWER4/POWER5 ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP5 must be installed. <p>NOTE: DFC version 5.3 SP5 can be used with versions 5.3 SP2 and 5.3 SP5 of the Document Management Content and Index servers.</p> <p>WARNING: The supported platforms for version 5.3 SP2 Document Management Content and Index server software is incompatible with the operating system requirements for Java 5. You must not install the version 5.3 SP2 Document Management server software on the same hardware as the PPM Server.</p>

Table 3-4. PPM Server requirements on IBM platforms (page 2 of 3)

Operating System	Requirements	Additional Information
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL9 ■ IBM AIX 5L version 5.3 TL5 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ POWER4/POWER5 ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP6 must be installed. <p>NOTE: DFC version 5.3 SP6 can be used with versions 5.3 SP2, 5.3 SP5, and 5.3 SP6 of the Document Management Content and Index servers.</p> <p>WARNING: The supported platforms for version 5.3 SP2 Document Management Content and Index server software is incompatible with the operating system requirements for Java 5. You must not install the version 5.3 SP2 Document Management server software on the same hardware as the PPM Server.</p>
JDK Software		
<p>For all of the IBM operating systems previously identified in this table</p>	<p>The following:</p> <ul style="list-style-type: none"> ■ Java 2 Runtime Environment, Standard Edition (build pap32dev-20080716a (SR8)) ■ IBM J9 VM (build 2.3, J2RE 1.5.0) ■ IBM J9 2.3 AIX ppc-32 j9vmap3223-20080716 (JIT enabled) (available from IBM) (support starting with SP9) <p>Note: Starting with SP9, IBM JDK for AIX, Java 2 Technology Edition, version 1.4.2.1 (IBM AIX build ca142-20050929a) has been desupported.</p>	

Table 3-4. PPM Server requirements on IBM platforms (page 3 of 3)

Operating System	Requirements	Additional Information
Secure Communications Software		
For all of the IBM operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ AttachmateWRQ (Reflection for Secure IT) version 6.1 (formerly F-Secure SSH) ■ OpenSSH version 4.1p1 ■ OpenSSH version 4.3p2 	
Terminal Emulation Software		
For all of the IBM operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ “Dumb” mode ■ VT100 mode ■ VT220 mode 	
Other Software		
For all of the IBM operating systems previously identified in this table	The following: <ul style="list-style-type: none"> ■ SQL*Net ■ SQL*Plus 	<ul style="list-style-type: none"> ■ The Oracle client version should correspond to the version of the database used with the PPM Center instance. ■ SQL*Net must be configured to recognize the connection string of the Oracle database that contains the PPM Center database schema.
For all of the IBM operating systems previously identified in this table	(Optional) The following: <ul style="list-style-type: none"> ■ Email application configuration 	<ul style="list-style-type: none"> ■ If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 46 for details.

Red Hat Platforms

Table 3-5. PPM Server requirements on Red Hat platforms (page 1 of 3)

Operating System	Requirements	Additional Information
Platform (without Document Management)		
<p>One of the following:</p> <ul style="list-style-type: none"> Red Hat Enterprise Linux AS 3.0 (both 32- and 64-bit support starting with SP7) Red Hat Enterprise Linux AS 4.0 (both 32- and 64-bit support starting with SP7) 	<p>All of the following:</p> <ul style="list-style-type: none"> x86 and compatible chip architectures (1.5 GHz) 2 GB RAM 600 MB disk space 400 MB temp space 	<ul style="list-style-type: none"> These are minimum requirements—faster processors and additional memory and storage are acceptable. See <i>Hardware Sizing Estimates on page 46</i> for additional considerations.
<p>When installed on an x86 VMware ESX Server 2.5 partition, one of the following:</p> <ul style="list-style-type: none"> Red Hat Enterprise Linux AS 3.0 (32-bit only) Red Hat Enterprise Linux AS 4.0 (32-bit only) 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> One Opteron in 32-bit mode Two Pentium III Xeon (900 MHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> 3 GB RAM 600 MB disk space for installed files 400 MB temporary space for installation files 	<ul style="list-style-type: none"> These are minimum requirements—faster processors and additional memory and storage are acceptable. Remote Management of ESX is required. For system sizing impact, contact HP support (hp.com/go/hpsupport).
Platform (with Document Management)		
<p>Version 5.3 SP2</p> <p>One of the following:</p> <ul style="list-style-type: none"> Red Hat Enterprise Linux AS 3.0 Update 3 Red Hat Enterprise Linux AS 3.0 Update 4 Red Hat Enterprise Linux AS 3.0 Update 6 Red Hat Enterprise Linux AS 4.0 Update 2 	<p>All of the following:</p> <ul style="list-style-type: none"> x86 and compatible chip architectures (1.5 GHz) 2 GB RAM 600 MB disk space 400 MB temp space 	<ul style="list-style-type: none"> These are minimum requirements—faster processors and additional memory and storage are acceptable. See <i>Hardware Sizing Estimates on page 46</i> for additional considerations. DFC version 5.3 SP2 must be installed. 64-bit support for the DFC is accomplished through the 32-bit compatibility mode on 100% Intel-compatible processors, such as AMD64 or Intel EM64T.

Table 3-5. PPM Server requirements on Red Hat platforms (page 2 of 3)

Operating System	Requirements	Additional Information
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 Update 8 ■ Red Hat Enterprise Linux AS 4.0 Update 4 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP5 must be installed. ■ 64-bit support for the DFC is accomplished through the 32-bit compatibility mode on 100% Intel-compatible processors, such as AMD64 or Intel EM64T.
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 Update 8 ■ Red Hat Enterprise Linux AS 4.0 Update 4 		<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP6 must be installed. ■ 64-bit support for the DFC is accomplished through the 32-bit compatibility mode on 100% Intel-compatible processors, such as AMD64 or Intel EM64T.
JDK Software		
<p>For all of the Red Hat operating systems previously identified in this table</p>	<p>The following:</p> <ul style="list-style-type: none"> ■ Java 2 Platform, Standard Edition 5.0 (J2SE 5.0) JDK 1.5.0_11 (available from Sun) (support starting with SP9) ■ Java Platform, Standard Edition for Business (build 1.5.0_16) (available from Sun) (support starting with SP11) <p>Note: Starting with SP9, Sun Java JDK, Standard Edition 1.4.2_12 has been desupported.</p>	

Table 3-5. PPM Server requirements on Red Hat platforms (page 3 of 3)

Operating System	Requirements	Additional Information
Secure Communications Software		
For: <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 	One of the following: <ul style="list-style-type: none"> ■ AttachmateWRQ (Reflection for Secure IT) version 6.1 (formerly F-Secure SSH) ■ OpenSSH version 4.1p1 ■ OpenSSH version 4.3p2 	
For: <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 4.0 	One of the following: <ul style="list-style-type: none"> ■ AttachmateWRQ (Reflection for Secure IT) version 6.1 (formerly F-Secure SSH) ■ OpenSSH version 3.9p1 (included with the product bundle from Red Hat, Inc.) ■ OpenSSH version 4.1p1 ■ OpenSSH version 4.3p2 	
Terminal Emulation Software		
For all of the Red Hat operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ “Dumb” mode ■ VT100 mode ■ VT220 mode 	
Other Software		
For all of the Red Hat operating systems previously identified in this table	The following: <ul style="list-style-type: none"> ■ SQL*Net ■ SQL*Plus 	<ul style="list-style-type: none"> ■ The Oracle client version should correspond to the version of the database used with the PPM Center instance. ■ SQL*Net must be configured to recognize the connection string of the Oracle database that contains the PPM Center database schema.
For all of the Red Hat operating systems previously identified in this table	(Optional) The following: <ul style="list-style-type: none"> ■ Email application configuration 	<ul style="list-style-type: none"> ■ If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 46 for details.

SUSE Platforms

Table 3-6. PPM Server requirements on SUSE platforms (page 1 of 3)

Operating System	Requirements	Additional Information
Platform (without Document Management)		
<p>The following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 (both 32- and 64-bit support starting with SP7) 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations.
<p>When installed on an x86 VMware ESX Server 2.5 partition, the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 (32-bit only) 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ Remote Management of ESX is required. ■ For system sizing impact, contact HP support (hp.com/go/hpsoftwaresupport)
Platform (with Document Management)		
<p>Version 5.3 SP2</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 ■ SUSE Linux Enterprise Server 9 SP1 ■ SUSE Linux Enterprise Server 9 SP2 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP2 must be installed. ■ 64-bit support for the DFC is accomplished through the 32-bit compatibility mode on 100% Intel-compatible processors, such as AMD64 or Intel EM64T.

Table 3-6. PPM Server requirements on SUSE platforms (page 2 of 3)

Operating System	Requirements	Additional Information
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>The following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 SP3 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 600 MB disk space ■ 400 MB temp space 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP5 must be installed. ■ 64-bit support for the DFC is accomplished through the 32-bit compatibility mode on 100% Intel-compatible processors, such as AMD64 or Intel EM64T.
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>The following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 SP3 		<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Hardware Sizing Estimates on page 46 for additional considerations. ■ DFC version 5.3 SP6 must be installed. ■ 64-bit support for the DFC is accomplished through the 32-bit compatibility mode on 100% Intel-compatible processors, such as AMD64 or Intel EM64T.
JDK Software		
<p>For all of the SUSE Linux operating systems previously identified in this table</p>	<p>The following:</p> <ul style="list-style-type: none"> ■ Java 2 Platform, Standard Edition 5.0 (J2SE 5.0) JDK 1.5.0_11 (available from Sun) (support starting with SP9) ■ Java Platform, Standard Edition for Business (build 1.5.0_16) (available from Sun) (support starting with SP11) <p>Note: Starting with SP9, Sun Java JDK, Standard Edition 1.4.2_12 has been desupported.</p>	

Table 3-6. PPM Server requirements on SUSE platforms (page 3 of 3)

Operating System	Requirements	Additional Information
Secure Communications Software		
For all of the SUSE Linux operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ AttachmateWRQ (Reflection for Secure IT) version 6.1 (formerly F-Secure SSH) ■ OpenSSH version 4.1p1 ■ OpenSSH version 4.3p2 	
Terminal Emulation Software		
For all of the SUSE Linux operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ■ “Dumb” mode ■ VT100 mode ■ VT220 mode 	
Other Software		
For all of the SUSE Linux operating systems previously identified in this table	The following: <ul style="list-style-type: none"> ■ SQL*Net ■ SQL*Plus 	<ul style="list-style-type: none"> ■ The Oracle client version should correspond to the version of the database used with the PPM Center instance. ■ SQL*Net must be configured to recognize the connection string of the Oracle database that contains the PPM Center database schema.
For all of the SUSE Linux operating systems previously identified in this table	(Optional) The following: <ul style="list-style-type: none"> ■ Email application configuration 	<ul style="list-style-type: none"> ■ If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 46 for details.

Hardware Sizing Estimates

The hardware specifications provided in this guide are the minimum requirements for a valid PPM Center production installation. The requirements as they apply to each installation will vary based on the number of users, volume of activity, and type of activity. HP will conduct hardware assessments for customers at appropriate stages of the implementation. Contact HP support (hp.com/go/hpsoftwaresupport) for a detailed assessment.

Email Server Requirements

An email server is required if you are planning to use notifications. PPM Center can send email notifications to identify pending actions or to notify users of status changes for various packages, requests, and tasks.

PPM Center can integrate with any SMTP-compliant mail server, including Microsoft Exchange, UNIX sendmail, and others.

To work with these third-party products, the PPM Server needs the IP address of the email server and the logon name of one or more valid users on the email server, which the PPM Server uses as “from” addresses for its notifications.

[For More Information](#)

For information about configuring the email server, see the *System Administration Guide and Reference*.

PPM Center Database

Microsoft Platforms

Table 3-7. PPM Center database requirements on Microsoft platforms (page 1 of 2)

Component	Requirements	Additional Information
Platform		
One of the following: <ul style="list-style-type: none"> ■ Microsoft Windows Server 2003 SP1, Standard Edition ■ Microsoft Windows Server 2003 R2 SP2, Standard Edition (support starting with SP6) ■ Microsoft Windows Server 2003 SP1, Enterprise Edition ■ Microsoft Windows Server 2003 R2, Enterprise Edition ■ Microsoft Windows Server 2003 R2 SP2, Enterprise Edition (support starting with SP6) 	All of the following: <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 1 GB disk space (25 MB for CLOB and 100 MB for index) 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-14 on page 62 for information. ■ Also see Document Management Database Sizing Recommendations on page 95.
Database Software		
One of the following: <ul style="list-style-type: none"> ■ Oracle 9.2.0.7 ■ Oracle 9.2.0.7 RAC 		<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-20 on page 77 for information.
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 9.2.0.8 RAC (support starting with SP1) 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.3 ■ Oracle 10.1.0.3 RAC 		

Table 3-7. PPM Center database requirements on Microsoft platforms (page 2 of 2)

Component	Requirements	Additional Information
<ul style="list-style-type: none"> ■ Oracle 10.1.0.4 ■ Oracle 10.1.0.4 RAC 	<p>The following:</p> <ul style="list-style-type: none"> ■ The value for the <code>blank_trimming</code> configuration parameter must be set to <code>true</code> in the initialization file (either <code>init.ora</code> or <code>spfile.ora</code>). 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-20 on page 77 for information.
<ul style="list-style-type: none"> ■ Oracle 10.1.0.5 ■ Oracle 10.1.0.5 RAC 		
<ul style="list-style-type: none"> ■ Oracle 10.2.0.2 ■ Oracle 10.2.0.2 RAC 	<p>The following:</p> <ul style="list-style-type: none"> ■ Run the following command from an SQL*Plus session as sysdba. For details, refer to Oracle bug number 5455729. <pre>alter system set "_optimizer_connect_by_cost_based"=false scope=both;</pre>	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 ■ Oracle 10.2.0.3 RAC (support starting with SP3) <hr/> <ul style="list-style-type: none"> ■ Oracle 10.2.0.4 ■ Oracle 10.2.0.4 RAC (support starting with SP8) 		

Sun Platforms

Table 3-8. PPM Center database requirements on Sun platforms (page 1 of 2)

Component	Requirements	Additional Information
Platform		
One of the following: <ul style="list-style-type: none"> ■ Solaris 9 ■ Solaris 10 	All of the following: <ul style="list-style-type: none"> ■ UltraSPARC III (1050 MHz) ■ 2 GB RAM ■ 1 GB disk space (25 MB for CLOB and 100 MB for index) 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-15 on page 64 for information. ■ Also see Document Management Database Sizing Recommendations on page 95.
Database Software		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.7 ■ Oracle 9.2.0.7 RAC 		If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-21 on page 79 for information.
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 9.2.0.8 RAC (support starting with SP1) 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.3 ■ Oracle 10.1.0.3 RAC 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.4 ■ Oracle 10.1.0.4 RAC 	The following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790. 	

Table 3-8. PPM Center database requirements on Sun platforms (page 2 of 2)

Component	Requirements	Additional Information
<ul style="list-style-type: none"> ■ Oracle 10.1.0.5 ■ Oracle 10.1.0.5 RAC 		<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-21 on page 79 for information.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.1 ■ Oracle 10.2.0.1 RAC 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790. ■ Install and apply Oracle patch 5089814. 	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.2 ■ Oracle 10.2.0.2 RAC 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 5089814. ■ Run the following command from an SQL*Plus session as sysdba. For details, refer to Oracle bug number 5455729. <pre>alter system set "_optimizer_connect_by_cost_based"=false scope=both;</pre>	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 ■ Oracle 10.2.0.3 RAC (support starting with SP3) 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 4878299. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.4 ■ Oracle 10.2.0.4 RAC (support starting with SP8) 		

HP Platforms

Table 3-9. PPM Center database requirements on HP platforms (page 1 of 3)

Component	Requirements	Additional Information
Platform		
For: <ul style="list-style-type: none"> ■ HP-UX 11i v2 ■ HP-UX 11i v3 (support starting with SP4) 	One of the following processor options: <ul style="list-style-type: none"> ■ Itanium 2 (1.4 GHz) ■ PA-RISC (1 GHz) (for HP-UX 11i v2 only) Plus all of the following: <ul style="list-style-type: none"> ■ 2 GB RAM ■ 1 GB disk space (25 MB for CLOB and 100 MB for index) 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-16 on page 66 for information. ■ Also see Document Management Database Sizing Recommendations on page 95.
Database Software		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.7 ■ Oracle 9.2.0.7 RAC 	For HP-UX 11i v2 only	If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-22 on page 82 for information.
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 9.2.0.8 RAC (support starting with SP1) 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.3 ■ Oracle 10.1.0.3 RAC 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.4 ■ Oracle 10.1.0.4 RAC 	The following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790. 	

Table 3-9. PPM Center database requirements on HP platforms (page 2 of 3)

Component	Requirements	Additional Information
<ul style="list-style-type: none"> ■ Oracle 10.1.0.5 ■ Oracle 10.1.0.5 RAC 	<p>The following:</p> <ul style="list-style-type: none"> ■ Install and apply HP patch PHKL_35936 (on HP-UX 11i v3 only) 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-22 on page 82 for information.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.1 ■ Oracle 10.2.0.1 RAC 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790 (on PA-RISC only). ■ Install and apply Oracle patch 5089814 (on Itanium only). 	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.2 ■ Oracle 10.2.0.2 RAC 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 5089814. ■ Run the following command from an SQL*Plus session as sysdba. For details, refer to Oracle bug number 5455729. <pre>alter system set "_optimizer_connect_by_cost_based"=false scope=both;</pre> ■ Install and apply HP patch PHKL_35936 (on HP-UX 11i v3 only) 	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 ■ Oracle 10.2.0.3 RAC (support starting with SP3) 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply HP patch PHKL_35936 (on HP-UX 11i v3 only) ■ Install and apply Oracle patch 4467058 (on PA-RISC only). ■ Install and apply Oracle patch 5872943 (on PA-RISC only). ■ Install and apply Oracle patch 5618040 (on Itanium only). ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

Table 3-9. PPM Center database requirements on HP platforms (page 3 of 3)

Component	Requirements	Additional Information
<ul style="list-style-type: none"> ■ Oracle 10.2.0.4 ■ Oracle 10.2.0.4 RAC (support starting with SP8) 		<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-22 on page 82 for information.

IBM Platforms

Table 3-10. PPM Center database requirements on IBM platforms (page 1 of 2)

Component	Requirements	Additional Information
Platform		
<p>One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL7 (or later) (support constrained in SP9) ■ IBM AIX 5L version 5.3 TL3 (or later) (support constrained in SP9) 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ POWER4/POWER5 ■ 2 GB RAM ■ 1 GB disk space (25 MB for CLOB and 100 MB for index) 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-17 on page 70 for information. ■ Also see Document Management Database Sizing Recommendations on page 95.
Database Software		
<p>One of the following:</p> <ul style="list-style-type: none"> ■ Oracle 9.2.0.7 ■ Oracle 9.2.0.7 RAC 		<p>If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-23 on page 86 for information.</p>
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 9.2.0.8 RAC (support starting with SP1) 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.3 ■ Oracle 10.1.0.3 RAC 		

Table 3-10. PPM Center database requirements on IBM platforms (page 2 of 2)

Component	Requirements	Additional Information
<ul style="list-style-type: none"> ■ Oracle 10.1.0.4 ■ Oracle 10.1.0.4 RAC 	<p>The following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790. 	<p>If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-23 on page 86 for information.</p>
<ul style="list-style-type: none"> ■ Oracle 10.1.0.5 ■ Oracle 10.1.0.5 RAC 		
<ul style="list-style-type: none"> ■ Oracle 10.2.0.2 ■ Oracle 10.2.0.2 RAC 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 5089814. ■ Run the following command from an SQL*Plus session as sysdba. For details, refer to Oracle bug number 5455729. <pre>alter system set _optimizer_connect_by_cost_based=false scope=both;</pre>	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 ■ Oracle 10.2.0.3 RAC (support starting with SP3) 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 5618040. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.4 ■ Oracle 10.2.0.4 RAC (support starting with SP8) 		

Red Hat Platforms

Table 3-11. PPM Center database requirements on Red Hat platforms (page 1 of 2)

Component	Requirements	Additional Information
Platform		
One of the following: <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 ■ Red Hat Enterprise Linux AS 4.0 	All of the following: <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 1 GB disk space (25 MB for CLOB, 100 MB for index) 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-18 on page 72 for information. ■ Also see Document Management Database Sizing Recommendations on page 95.
Database Software		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.7 ■ Oracle 9.2.0.7 RAC 		If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-24 on page 89 for information.
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 9.2.0.8 RAC (support starting with SP1) 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.3 ■ Oracle 10.1.0.3 RAC 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.4 ■ Oracle 10.1.0.4 RAC 	The following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790 (on x86 only). 	
<ul style="list-style-type: none"> ■ Oracle 10.1.0.5 ■ Oracle 10.1.0.5 RAC 		
<ul style="list-style-type: none"> ■ Oracle 10.2.0.1 ■ Oracle 10.2.0.1 RAC 	All of the following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790. ■ Install and apply Oracle patch 5089814. 	

Table 3-11. PPM Center database requirements on Red Hat platforms (page 2 of 2)

Component	Requirements	Additional Information
<ul style="list-style-type: none"> ■ Oracle 10.2.0.2 ■ Oracle 10.2.0.2 RAC 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 5089814. ■ Run the following command from an SQL*Plus session as sysdba. For details, refer to Oracle bug number 5455729. <pre>alter system set "_optimizer_connect_by_cost_based"=false scope=both;</pre>	<p>If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-24 on page 89 for information.</p>
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 ■ Oracle 10.2.0.3 RAC (support starting with SP3) 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 5618040. ■ Install and apply Oracle patch 4878299. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.4 ■ Oracle 10.2.0.4 RAC (support starting with SP8) 		

SUSE Platforms

Table 3-12. PPM Center database requirements on SUSE platforms (page 1 of 2)

Component	Requirements	Additional Information
Platform		
For: <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 	All of the following: <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 1 GB disk space (25 MB CLOB and 100 MB for index) 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-19 on page 74 for information. ■ Also see Document Management Database Sizing Recommendations on page 95.
Database Software		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.7 ■ Oracle 9.2.0.7 RAC 		If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-25 on page 92 for information.
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 9.2.0.8 RAC (support starting with SP1) 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.3 ■ Oracle 10.1.0.3 RAC 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.4 ■ Oracle 10.1.0.4 RAC 	The following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790 (on x86 only). 	
<ul style="list-style-type: none"> ■ Oracle 10.1.0.5 ■ Oracle 10.1.0.5 RAC 		
<ul style="list-style-type: none"> ■ Oracle 10.2.0.1 ■ Oracle 10.2.0.1 RAC 	All of the following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790. ■ Install and apply Oracle patch 5089814. 	

Table 3-12. PPM Center database requirements on SUSE platforms (page 2 of 2)

Component	Requirements	Additional Information
<ul style="list-style-type: none"> ■ Oracle 10.2.0.2 ■ Oracle 10.2.0.2 RAC 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 5089814. ■ Run the following command from an SQL*Plus session as sysdba. For details, refer to Oracle bug number 5455729. <pre>alter system set "_optimizer_connect_by_cost_based"=false scope=both;</pre>	<p>If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-25 on page 92 for information.</p>
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 ■ Oracle 10.2.0.3 RAC (support starting with SP3) 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 5618040. ■ Install and apply Oracle patch 4878299. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.4 ■ Oracle 10.2.0.4 RAC (support starting with SP8) 		

Database Character Sets

Table 3-13 lists the database character sets supported for English-language deployments of version 7.1 of PPM Center.

Table 3-13. Database character sets supported

Code	Description
US7ASCII	ASCII 7-bit U.S. America
WE8ISO8859P1	ISO 8859-1 Western Europe
WE8ISO8859P9	ISO 8859-9
WE8ISO8859P15	ISO 8859-15
WE8MSWIN1252	Microsoft Windows code page 1252 8-bit Western Europe
UTF8	Unicode 3.0 UTF-8
AL32UTF8	Unicode 3.0 UTF-8

For national language support, specify:

- AL32UTF8 for NLS_CHARACTERSET
- AL16UTF16 for NLS_NCHAR_CHARACTERSET

Document Management Servers

The optional Document Management module provided by HP for use with English language PPM Center instances includes:

- Version 5.3 SP2 of the Documentum Foundation Classes (DFC)

Starting with Service Pack 9, use of the DFC version 5.3 SP2 software is no longer supported on IBM AIX platforms. Use version 5.3 SP5 or 5.3 SP6 of the software instead.



DFC version 5.3 SP5 can be used with versions 5.3 SP2 and 5.3 SP5 of the Document Management Content and Index servers; DFC version 5.3 SP6 can be used with versions 5.3 SP2, 5.3 SP5, and 5.3 SP6 of the Document Management Content and Index servers.

- Version 5.3 SP2 of the Documentum Content Server
- Version 5.3 SP2 of the Documentum Index Server

Starting with Service Pack 6, support for the Document Management module has been enhanced to include the following:

- Version 5.3 SP5 of the Documentum Foundation Classes
- Version 5.3 SP5 of the Documentum Content Server
- Version 5.3 SP5 of the Documentum Index Server



Use of version 5.3 SP5 or later is required for deployments that have installed Sun Solaris 10 patch 119963-08 (or any accumulated patch with this content).

Starting with Service Pack 10, support for the Document Management module has been enhanced to include the following:

- Version 5.3 SP6 of the Documentum Foundation Classes
- Version 5.3 SP6 of the Documentum Content Server
- Version 5.3 SP6 of the Documentum Index Server



For new Document Management deployments, HP recommends that you install the above version 5.3 SP6 software.

The Document Management module files are available from HP and can be obtained from the HP Software Updates Web site at:

support.openview.hp.com/software_updates.jsp

For performance reasons, HP recommends that you install this software on separate servers and databases as shown in *Figure 1-1* on page 15.

[For More Information](#)

For information about the additional features and functionality available with Document Management module, see the *Document Management Guide and Reference*.

Microsoft Platforms

Table 3-14. Document Management server requirements on Microsoft platforms (page 1 of 2)

Component	Requirements	Additional Information
Document Management Content Server Platform		
Version 5.3 SP2 One of the following: <ul style="list-style-type: none">■ Windows 2000 SP4■ Windows 2000 SP4 Update Rollup 1■ Windows 2003■ Windows 2003 SP1	All of the following: <ul style="list-style-type: none">■ x86 and compatible chip architectures (1.5 GHz)r■ 512 MB RAM■ 700 MB disk space (for installation only) in addition to the minimum requirements for the operating system	These are minimum requirements—faster processors and additional memory and storage are acceptable. <ul style="list-style-type: none">■ See <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 76 for additional storage considerations.
Version 5.3 SP5 (support starting with SP6) One of the following: <ul style="list-style-type: none">■ Windows 2000 SP4 Update Rollup 1■ Windows Server 2003 R2 (32-bit only)		
Version 5.3 SP6 (support starting with SP10) One of the following: <ul style="list-style-type: none">■ Windows 2000 SP4 Update Rollup 1■ Windows Server 2003 R2 (32-bit only)		

Table 3-14. Document Management server requirements on Microsoft platforms (page 2 of 2)

Component	Requirements	Additional Information
Document Management Index Server Platform		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ Windows 2000 SP4 ■ Windows 2000 SP4 Update Rollup 1 ■ Windows 2003 ■ Windows 2003 SP1 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	<p>These are minimum requirements—faster processors and additional memory and storage are acceptable.</p> <ul style="list-style-type: none"> ■ See Document Management Content Server and Index Server Sizing Recommendations on page 76 for additional storage considerations.
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Windows 2000 SP4 Update Rollup 1 ■ Windows Server 2003 R2 (32-bit only) 		
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Windows 2000 SP4 Update Rollup 1 ■ Windows Server 2003 R2 (32-bit only) 		

Sun Platforms

Table 3-15. Document Management server requirements on Sun platforms (page 1 of 2)

Component	Requirements	Additional Information
Document Management Content Server Platform		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ Sun Solaris 8 ■ Sun Solaris 9 ■ Sun Solaris 10 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ UltraSPARC III (1050 MHz) ■ 512 MB RAM ■ 700 MB disk space (for installation only) in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Document Management Content Server and Index Server Sizing Recommendations on page 76 for additional storage considerations.
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Sun Solaris 8 ■ Sun Solaris 9 ■ Sun Solaris 10 		
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Sun Solaris 8 ■ Sun Solaris 9 ■ Sun Solaris 10 		

Table 3-15. Document Management server requirements on Sun platforms (page 2 of 2)

Component	Requirements	Additional Information
Document Management Index Server Platform		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ Sun Solaris 8 ■ Sun Solaris 9 ■ Sun Solaris 10 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ UltraSPARC III (1050 MHz) ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Document Management Content Server and Index Server Sizing Recommendations on page 76 for additional storage considerations.
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Sun Solaris 8 ■ Sun Solaris 9 ■ Sun Solaris 10 		
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Sun Solaris 8 ■ Sun Solaris 9 ■ Sun Solaris 10 		

HP Platforms

Table 3-16. Document Management server requirements on HP platforms (page 1 of 4)

Component	Requirements	Additional Information
Document Management Content Server Platform		
Version 5.3 SP2 For: <ul style="list-style-type: none"> ■ HP-UX 11i v1 	All of the following: <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ 512 MB RAM ■ 700 MB disk space (for installation only in addition to the minimum requirements for the operating system) 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 76 for additional storage considerations.
Version 5.3 SP5 (support starting with SP6) One of the following: <ul style="list-style-type: none"> ■ HP-UX 11 ■ HP-UX 11i v1 	All of the following: <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ 512 MB RAM ■ 700 MB disk space (for installation only in addition to the minimum requirements for the operating system) 	
Version 5.3 SP6 (support starting with SP10) One of the following: <ul style="list-style-type: none"> ■ HP-UX 11 ■ HP-UX 11i v1 	All of the following: <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ 512 MB RAM ■ 700 MB disk space (for installation only in addition to the minimum requirements for the operating system) 	

Table 3-16. Document Management server requirements on HP platforms (page 2 of 4)

Component	Requirements	Additional Information
<p>Version 5.3 SP2 For:</p> <ul style="list-style-type: none"> ■ HP-UX 11i v2 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ Itanium 2 (1.4 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> ■ 512 MB RAM ■ 700 MB disk space (for installation only in addition to the minimum requirements for the operating system) 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 76 for additional storage considerations.
<p>Version 5.3 SP5 (support starting with SP6) For:</p> <ul style="list-style-type: none"> ■ HP-UX 11i v2 Update 2 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ Itanium 2 (1.4 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> ■ 512 MB RAM ■ 700 MB disk space (for installation only in addition to the minimum requirements for the operating system) 	
<p>Version 5.3 SP6 (support starting with SP10) For:</p> <ul style="list-style-type: none"> ■ HP-UX 11i v2 Update 2 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ Itanium 2 (1.4 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> ■ 512 MB RAM ■ 700 MB disk space (for installation only in addition to the minimum requirements for the operating system) 	

Table 3-16. Document Management server requirements on HP platforms (page 3 of 4)

Component	Requirements	Additional Information
Document Management Index Server Platform		
Version 5.3 SP2 For: <ul style="list-style-type: none"> ■ HP-UX 11i v1 	All of the following: <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 76 for additional storage considerations.
Version 5.3 SP5 (support starting with SP6) One of the following: <ul style="list-style-type: none"> ■ HP-UX 11 ■ HP-UX 11i v1 	All of the following: <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	
Version 5.3 SP6 (support starting with SP10) One of the following: <ul style="list-style-type: none"> ■ HP-UX 11 ■ HP-UX 11i v1 	All of the following: <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	

Table 3-16. Document Management server requirements on HP platforms (page 4 of 4)

Component	Requirements	Additional Information
<p>Version 5.3 SP2 For:</p> <ul style="list-style-type: none"> ■ HP-UX 11i v2 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ Itanium 2 (1.4 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 76 for additional storage considerations.
<p>Version 5.3 SP5 (support starting with SP6) For:</p> <ul style="list-style-type: none"> ■ HP-UX 11i v2 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ Itanium 2 (1.4 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	
<p>Version 5.3 SP6 (support starting with SP10) For:</p> <ul style="list-style-type: none"> ■ HP-UX 11i v2 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ Itanium 2 (1.4 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	

IBM Platforms

Table 3-17. Document Management server requirements on IBM platforms (page 1 of 2)

Component	Requirements	Additional Information
Document Management Content Server Platform		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 ML4 ■ IBM AIX 5L version 5.2 ML5 ■ IBM AIX 5L version 5.2 ML6 ■ IBM AIX 5L version 5.3 APAR IY58143 ■ IBM AIX 5L version 5.3 ML1 ■ IBM AIX 5L version 5.3 ML2 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ POWER4/POWER5 ■ 512 MB RAM ■ 700 MB disk space (for installation only) in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Document Management Content Server and Index Server Sizing Recommendations on page 76 for additional storage considerations. <p>NOTE: DFC version 5.3 SP5 can be used with versions 5.3 SP2 and 5.3 SP5 of the Document Management Content and Index servers; DFC version 5.3 SP6 can be used with versions 5.3 SP2, 5.3 SP5, and 5.3SP6 of the Content and Index servers.</p>
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL9 ■ IBM AIX 5L version 5.3 TL5 		<p>WARNING: The supported platforms for version 5.3 SP2 Document Management Content and Index server software is incompatible with the operating system requirements for Java 5. You must not install the version 5.3 SP2 Document Management server software on the same hardware as the PPM Server.</p>
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL9 ■ IBM AIX 5L version 5.3 TL5 		

Table 3-17. Document Management server requirements on IBM platforms (page 2 of 2)

Component	Requirements	Additional Information
Document Management Index Server Platform		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 ML4 ■ IBM AIX 5L version 5.2 ML5 ■ IBM AIX 5L version 5.2 ML6 ■ IBM AIX 5L version 5.3 APAR IY58143 ■ IBM AIX 5L version 5.3 ML1 ■ IBM AIX 5L version 5.3 ML2 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ POWER4/POWER5 ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Document Management Content Server and Index Server Sizing Recommendations on page 76 for additional storage considerations. <p>NOTE: DFC version 5.3 SP5 can be used with versions 5.3 SP2 and 5.3 SP5 of the Document Management Content and Index servers; DFC version 5.3 SP6 can be used with versions 5.3 SP2, 5.3 SP5, and 5.3SP6 of the Content and Index servers.</p>
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL9 ■ IBM AIX 5L version 5.3 TL5 		<p>WARNING: The supported platforms for version 5.3 SP2 Document Management Content and Index server software is incompatible with the operating system requirements for Java 5. You must not install the version 5.3 SP2 Document Management server software on the same hardware as the PPM Server.</p>
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL9 ■ IBM AIX 5L version 5.3 TL5 		

Red Hat Platforms

Table 3-18. Document Management server requirements on Red Hat platforms (page 1 of 2)

Component	Requirements	Additional Information
Document Management Content Server Platform		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 Update 3 ■ Red Hat Enterprise Linux AS 3.0 Update 4 ■ Red Hat Enterprise Linux AS 3.0 Update 6 ■ Red Hat Enterprise Linux AS 4.0 Update 2 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 512 MB RAM ■ 700 MB disk space (for installation only) in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Document Management Content Server and Index Server Sizing Recommendations on page 76 for additional storage considerations. ■ 64-bit support is accomplished through the 32-bit compatibility mode on 100% Intel-compatible processors, such as AMD64 or Intel EM64T.
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 Update 8 ■ Red Hat Enterprise Linux AS 4.0 Update 4 		
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 Update 8 ■ Red Hat Enterprise Linux AS 4.0 Update 4 		

Table 3-18. Document Management server requirements on Red Hat platforms (page 2 of 2)

Component	Requirements	Additional Information	
Document Management Index Server Platform			
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 Update 3 ■ Red Hat Enterprise Linux AS 3.0 Update 4 ■ Red Hat Enterprise Linux AS 3.0 Update 6 ■ Red Hat Enterprise Linux AS 4.0 Update 2 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Document Management Content Server and Index Server Sizing Recommendations on page 76 for additional storage considerations. ■ 64-bit support is accomplished through the 32-bit compatibility mode on 100% Intel-compatible processors, such as AMD64 or Intel EM64T. 	
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 Update 8 ■ Red Hat Enterprise Linux AS 4.0 Update 4 			
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 Update 8 ■ Red Hat Enterprise Linux AS 4.0 Update 4 			

SUSE Platforms

Table 3-19. Document Management server requirements on SUSE platforms (page 1 of 2)

Component	Requirements	Additional Information	
Document Management Content Server Platform			
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 ■ SUSE Linux Enterprise Server 9.0 SP1 ■ SUSE Linux Enterprise Server 9.0 SP2 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 512 MB RAM ■ 700 MB disk space (for installation only) in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Document Management Content Server and Index Server Sizing Recommendations on page 76 for additional storage considerations. ■ 64-bit support is accomplished through the 32-bit compatibility mode on 100% Intel-compatible processors, such as AMD64 or Intel EM64T. 	
<p>Version 5.3 SP5 (support starting with SP6) One of the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 SP3 ■ SUSE Linux Enterprise Server 10 			
<p>Version 5.3 SP6 (support starting with SP10) One of the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 SP3 ■ SUSE Linux Enterprise Server 10 			

Table 3-19. Document Management server requirements on SUSE platforms (page 2 of 2)

Component	Requirements	Additional Information	
Document Management Index Server Platform			
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 ■ SUSE Linux Enterprise Server 9.0 SP1 ■ SUSE Linux Enterprise Server 9.0 SP2 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ See Document Management Content Server and Index Server Sizing Recommendations on page 76 for additional storage considerations. ■ 64-bit support is accomplished through the 32-bit compatibility mode on 100% Intel-compatible processors, such as AMD64 or Intel EM64T. 	
<p>Version 5.3 SP5 (support starting with SP6) One of the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 SP3 ■ SUSE Linux Enterprise Server 10 			
<p>Version 5.3 SP6 (support starting with SP10) One of the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 SP3 ■ SUSE Linux Enterprise Server 10 			

Document Management Content Server and Index Server Sizing Recommendations

In the HP document management environment, document storage consists of:

- The document itself, stored on the Document Management Content Server file system
- The document's full-text index stored on the Document Management Index Server file system
- The document's metadata (for example, author and description) stored in the Document Management database (see *Document Management Database Sizing Recommendations* on page 95 for those sizing details)

Use the following guidelines to provide a conservative estimate of the storage required for your document content and full-text indexes on the two Document Management servers:

1. Determine or estimate the average *number of documents*.
2. Determine or estimate the average *document size*.
3. Determine or estimate the average *number of versions* (of each document).
4. Estimate the average full-text *index size* by multiplying the average document size by 30%.
5. Estimate the document size as follows:
 $(\text{document size}) \times (\text{number of versions}) \times (\text{number of documents})$
6. Estimate the full-text index size as follows:
 $(\text{index size}) \times (\text{number of versions}) \times (\text{number of documents})$

Example

If you are planning for 100,000 documents, 100 KB in size (on average), with four versions (on average), then the amount of storage necessary for the content and indexes of these documents would be:

- On the Document Management Content Server:
 $(100 \text{ KB document size}) \times (4 \text{ versions}) \times (100,000 \text{ documents}) = 40 \text{ GB}$
- On the Document Management Index Server:
 $(30 \text{ KB index size}) \times (4 \text{ versions}) \times (100,000 \text{ documents}) = 12 \text{ GB}$

Document Management Database

Microsoft Platforms

Table 3-20. Document Management database requirements on Microsoft platforms (page 1 of 2)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ Windows 2000 SP4 ■ Windows 2000 SP4 Update Rollup 1 ■ Windows 2003 ■ Windows 2003 SP1 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 512 MB RAM ■ For installation and initial usage, HP recommends 180 MB for data and 180 MB for indexes in addition to the minimum requirements for the operating system. 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-1 on page 28 for details. ■ See Document Management Database Sizing Recommendations on page 95 for additional storage considerations.
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Windows 2000 SP4 Update Rollup 1 ■ Windows Server 2003 R2 (32-bit only) 		
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Windows 2000 SP4 Update Rollup 1 ■ Windows Server 2003 R2 (32-bit only) 		

Table 3-20. Document Management database requirements on Microsoft platforms (page 2 of 2)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP2		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.5 ■ Oracle 9.2.0.6 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-7 on page 47 for details.
<ul style="list-style-type: none"> ■ Oracle 9.2.0.7 ■ Oracle 10.1.0.3 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.4 	<ul style="list-style-type: none"> ■ The value for the <code>blank_trimming</code> configuration parameter must be set to <code>true</code> in the initialization file (either <code>init.ora</code> or <code>spfile.ora</code>). 	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.1 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	
Document Management Database Software for Version 5.3 SP5 (support starting with SP6)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 ■ Oracle 10.2.0.3 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-7 on page 47 for details.
Document Management Database Software for Version 5.3 SP6 (support starting with SP10)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 ■ Oracle 10.2.0.3 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-7 on page 47 for details.

Sun Platforms

Table 3-21. Document Management database requirements on Sun platforms (page 1 of 3)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ Sun Solaris 8 ■ Sun Solaris 9 ■ Sun Solaris 10 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ UltraSPARC III (1050 MHz) ■ 512 MB RAM ■ For installation and initial usage, HP recommends 180 MB for data and 180 MB for indexes in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-2 on page 32 for details. ■ See Document Management Database Sizing Recommendations on page 95 for additional storage considerations.
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Sun Solaris 8 ■ Sun Solaris 9 ■ Sun Solaris 10 		
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ Sun Solaris 8 ■ Sun Solaris 9 ■ Sun Solaris 10 		

Table 3-21. Document Management database requirements on Sun platforms (page 2 of 3)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP2		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.5 ■ Oracle 9.2.0.6 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-8 on page 49 for details.
<ul style="list-style-type: none"> ■ Oracle 9.2.0.7 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.3 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.4 	<ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790. 	
<ul style="list-style-type: none"> ■ Oracle 10.1.0.5 		
<ul style="list-style-type: none"> ■ Oracle 10.2.0.1 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790. ■ Install and apply Oracle patch 5089814. 	
Document Management Database Software for Version 5.3 SP5 (support starting with SP6)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-8 on page 49 for details.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 4878299. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

Table 3-21. Document Management database requirements on Sun platforms (page 3 of 3)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP6 (support starting with SP10)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-8 on page 49 for details.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 	All of the following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 4878299. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

HP Platforms

Table 3-22. Document Management database requirements on HP platforms (page 1 of 4)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
Version 5.3 SP2 For: <ul style="list-style-type: none"> ■ HP-UX 11i v1 	All of the following: <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-3 on page 35 for details. ■ See Document Management Database Sizing Recommendations on page 95 for additional storage considerations.
Version 5.3 SP5 (support starting with SP6) One of the following: <ul style="list-style-type: none"> ■ HP-UX 11 ■ HP-UX 11i v1 	All of the following: <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	
Version 5.3 SP6 (support starting with SP10) One of the following: <ul style="list-style-type: none"> ■ HP-UX 11 ■ HP-UX 11i v1 	All of the following: <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	

Table 3-22. Document Management database requirements on HP platforms (page 2 of 4)

Component	Requirements	Additional Information
<p>Version 5.3 SP2 For:</p> <ul style="list-style-type: none"> ■ HP-UX 11i v2 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ Itanium 2 (1.4 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-3 on page 35 for details.
<p>Version 5.3 SP5 (support starting with SP6) For:</p> <ul style="list-style-type: none"> ■ HP-UX 11i v2 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ Itanium 2 (1.4 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ See Document Management Database Sizing Recommendations on page 95 for additional storage considerations.
<p>Version 5.3 SP6 (support starting with SP10) For:</p> <ul style="list-style-type: none"> ■ HP-UX 11i v2 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> ■ PA-RISC (1 GHz) ■ Itanium 2 (1.4 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> ■ 2 GB RAM ■ 3 GB disk space in addition to the minimum requirements for the operating system 	

Table 3-22. Document Management database requirements on HP platforms (page 3 of 4)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP2		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.5 ■ Oracle 9.2.0.6 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-9 on page 51 for details.
<ul style="list-style-type: none"> ■ Oracle 9.2.0.7 ■ Oracle 10.1.0.3 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.4 	<ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790. 	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.1 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790 (on PA-RISC only). ■ Install and apply Oracle patch 5089814 (on Itanium only). 	
Document Management Database Software for Version 5.3 SP5 (support starting with SP6)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-9 on page 51 for details.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ For HP-UX 11 and HP-UX 11i v1 platforms only. ■ Install and apply Oracle patch 4467058 (on RA-RISC only). ■ Install and apply Oracle patch 5872943 (on PA-RISC only). ■ Install and apply Oracle patch 5618040 (on Itanium only). ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

Table 3-22. Document Management database requirements on HP platforms (page 4 of 4)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP6 (support starting with SP10)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-9 on page 51 for details.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 	All of the following: <ul style="list-style-type: none"> ■ For HP-UX 11 and HP-UX 11i v1 platforms only. ■ Install and apply Oracle patch 4467058 (on RA-RISC only). ■ Install and apply Oracle patch 5872943 (on PA-RISC only). ■ Install and apply Oracle patch 5618040 (on Itanium only). ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

IBM Platforms

Table 3-23. Document Management database requirements on IBM platforms (page 1 of 3)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 ML4 ■ IBM AIX 5L version 5.2 ML5 ■ IBM AIX 5L version 5.2 ML6 ■ IBM AIX 5L version 5.3 APAR IY58143 ■ IBM AIX 5L version 5.3 ML1 ■ IBM AIX 5L version 5.3 ML2 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ POWER4/POWER5 ■ 512 MB RAM ■ For installation and initial usage, HP recommends 180 MB for data and 180 MB for indexes in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-4 on page 37 for details. ■ See Document Management Database Sizing Recommendations on page 95 for additional storage considerations.
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL9 ■ IBM AIX 5L version 5.3 TL5 		
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL9 ■ IBM AIX 5L version 5.3 TL5 		<p>WARNING: The supported platforms for version 5.3 SP2 Document Management database software is incompatible with the operating system requirements for Java 5. You must not install the version 5.3 SP2 Document Management database software on the same hardware as the PPM Server.</p>

Table 3-23. Document Management database requirements on IBM platforms (page 2 of 3)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP2		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.5 ■ Oracle 9.2.0.6 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-10 on page 54 for details.
<ul style="list-style-type: none"> ■ Oracle 9.2.0.7 ■ Oracle 10.1.0.3 		
<ul style="list-style-type: none"> ■ Oracle 10.1.0.4 	<ul style="list-style-type: none"> ■ Install and apply Oracle patch 4458790. 	
<ul style="list-style-type: none"> ■ Oracle 10.2.0.1 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	
Document Management Database Software for Version 5.3 SP5		
(support starting with SP6)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-10 on page 54 for details.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 5618040. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

Table 3-23. Document Management database requirements on IBM platforms (page 3 of 3)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP6 (support starting with SP10)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-10 on page 54 for details.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 	All of the following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 5618040. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

Red Hat Platforms

Table 3-24. Document Management database requirements on Red Hat platforms (page 1 of 3)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> Red Hat Enterprise Linux AS 3.0 Update 3 Red Hat Enterprise Linux AS 3.0 Update 4 Red Hat Enterprise Linux AS 3.0 Update 6 Red Hat Enterprise Linux AS 4.0 Update 2 	<p>All of the following:</p> <ul style="list-style-type: none"> x86 and compatible chip architectures (1.5 GHz) 512 MB RAM For installation and initial usage, HP recommends 180 MB for data and 180 MB for indexes in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> These are minimum requirements—faster processors and additional memory and storage are acceptable. If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-5 on page 40 for details. See Document Management Database Sizing Recommendations on page 95 for additional storage considerations.
<p>Version 5.3 SP5 (support starting with SP6)</p> <p>One of the following:</p> <ul style="list-style-type: none"> Red Hat Enterprise Linux AS 3.0 Update 8 Red Hat Enterprise Linux AS 4.0 Update 4 		
<p>Version 5.3 SP6 (support starting with SP10)</p> <p>One of the following:</p> <ul style="list-style-type: none"> Red Hat Enterprise Linux AS 3.0 Update 8 Red Hat Enterprise Linux AS 4.0 Update 4 		
Document Management Database Software for Version 5.3 SP2		
One of the following:		
<ul style="list-style-type: none"> Oracle 9.2.0.5 Oracle 9.2.0.6 	<ul style="list-style-type: none"> Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-11 on page 56 for details.
<ul style="list-style-type: none"> Oracle 10.1.0.3 		

Table 3-24. Document Management database requirements on Red Hat platforms (page 2 of 3)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP5 (support starting with SP6)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-11 on page 56 for details.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 	All of the following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 5618040. ■ Install and apply Oracle patch 4878299. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

Table 3-24. Document Management database requirements on Red Hat platforms (page 3 of 3)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP6 (support starting with SP10)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-11 on page 56 for details.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 	All of the following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 5618040. ■ Install and apply Oracle patch 4878299. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

SUSE Platforms

Table 3-25. Document Management database requirements on SUSE platforms (page 1 of 3)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
<p>Version 5.3 SP2 One of the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 ■ SUSE Linux Enterprise Server 9 SP1 ■ SUSE Linux Enterprise Server 9 SP2 	<p>All of the following:</p> <ul style="list-style-type: none"> ■ x86 and compatible chip architectures (1.5 GHz) ■ 512 MB RAM ■ For installation and initial usage, HP recommends 180 MB for data and 180 MB for indexes in addition to the minimum requirements for the operating system 	<ul style="list-style-type: none"> ■ These are minimum requirements—faster processors and additional memory and storage are acceptable. ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable version of the platform. See Table 3-6 on page 43 for details. ■ See Document Management Database Sizing Recommendations on page 95 for additional storage considerations.
<p>Version 5.3 SP5 (support starting with SP6) One of the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 SP3 ■ SUSE Linux Enterprise Server 10 		
<p>Version 5.3 SP6 (support starting with SP10) One of the following:</p> <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 SP3 ■ SUSE Linux Enterprise Server 10 		
Document Management Database Software for Version 5.3 SP2		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.5 ■ Oracle 9.2.0.6 	<ul style="list-style-type: none"> ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-12 on page 58 for details.
<ul style="list-style-type: none"> ■ Oracle 10.1.0.3 		

Table 3-25. Document Management database requirements on SUSE platforms (page 2 of 3)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP5 (support starting with SP6)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 	<ul style="list-style-type: none"> ■ For SUSE Linux Enterprise Server 9 SP3 platforms only. ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-12 on page 58 for details.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 	All of the following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 5618040. ■ Install and apply Oracle patch 4878299. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

Table 3-25. Document Management database requirements on SUSE platforms (page 3 of 3)

Component	Requirements	Additional Information
Document Management Database Software for Version 5.3 SP6 (support starting with SP10)		
One of the following:		
<ul style="list-style-type: none"> ■ Oracle 9.2.0.8 ■ Oracle 10.1.0.5 	<ul style="list-style-type: none"> ■ For SUSE Linux Enterprise Server 9 SP3 platforms only. ■ Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<ul style="list-style-type: none"> ■ If you plan to use the same database for the PPM Center database and the Document Management database, make sure that you select a suitable database version. See Table 3-12 on page 58 for details.
<ul style="list-style-type: none"> ■ Oracle 10.2.0.3 	All of the following: <ul style="list-style-type: none"> ■ Install and apply Oracle patch 4467058. ■ Install and apply Oracle patch 5872943. ■ Install and apply Oracle patch 5618040. ■ Install and apply Oracle patch 4878299. ■ Install and apply Oracle patch 5487686. ■ Install and apply Oracle patch 6085625. 	

Document Management Database Sizing Recommendations

In the HP document management environment, document storage consists of:

- The document itself, stored on the Document Management Content Server file system (see *Document Management Content Server and Index Server Sizing Recommendations* on page 76 for those sizing details)
- The document's full-text index stored on the Document Management Index Server file system (see *Document Management Content Server and Index Server Sizing Recommendations* on page 76 for those sizing details)
- The document's metadata (for example, author and description) stored in the Document Management database

Use the following guidelines to provide a conservative estimate of the database storage required for your documents' metadata.

1. Determine or estimate the average *number of documents*.
2. Determine or estimate the average *number of versions* (of each document).
3. Estimate the metadata size as follows:

$$(5 \text{ KB}) \times (\textit{number of versions}) \times (\textit{number of documents})$$

Example

Continuing with the *Example on page 76* where you were planning for 100,000 documents, 100 KB in size (on average), with four versions (on average), then the amount of storage necessary for your metadata would be:

- In the Document Management database:
 $(5 \text{ KB}) \times (4 \text{ versions}) \times (100,000 \text{ documents}) = 2 \text{ GB}$

External Web Servers

PPM Center comes with an internal Web server to handle HTTP requirements in many implementations.

External Web servers are required in the following situations:

- PPM Center is deployed as a cluster configuration and you do not want to use a load balancer to distribute the load.
- HTTPS is required to access PPM Center.
- PPM Server is running on a UNIX platform and the HTTP port number must be lower than 1024.
- Integration with a single sign-on system that utilizes the PPM Center Web Server Module (such as CA SiteMinder) is desired.

An external Web server does not have to be installed on the same machine as the PPM Server. The optional Web servers supported by HP are listed in *Table 3-26*.

[For More Information](#)

For information about configuring an external Web server (as well as setting up a cluster environment), see the *System Administration Guide and Reference*.

Table 3-26. Web Server support (page 1 of 2)

Operating System	Requirements
Microsoft Platforms	
For: <ul style="list-style-type: none"> ■ Microsoft Windows Server 2003 SP1, Standard Edition ■ Microsoft Windows Server 2003 R2 SP2, Standard Edition ■ Microsoft Windows Server 2003 SP1, Enterprise Edition ■ Microsoft Windows Server 2003 R2, Enterprise Edition ■ Microsoft Windows Server 2003 R2 SP2, Enterprise Edition 	The following: <ul style="list-style-type: none"> ■ Microsoft IIS 6.0
Sun Platforms	
For: <ul style="list-style-type: none"> ■ Sun Solaris 9 ■ Sun Solaris 10 	One of the following: <ul style="list-style-type: none"> ■ Sun Java System Web Server 6.1 (Service Pack 5 or later) ■ Apache HTTP Server 2.0 (version 2.0.50 or later)
HP Platforms	
For: <ul style="list-style-type: none"> ■ HP-UX 11i v2 ■ HP-UX 11i v3 	The following: <ul style="list-style-type: none"> ■ Apache-based Web Server version 2.0.58.00 (available from HP)
IBM Platforms	
For: <ul style="list-style-type: none"> ■ IBM AIX 5L version 5.2 TL7 (or later) (support constrained in SP9) ■ IBM AIX 5L version 5.3 TL3 (or later) (support constrained in SP9) 	One of the following: <ul style="list-style-type: none"> ■ IBM HTTP Server (IHS) version 2.0.47.1 (available from IBM) ■ IBM HTTP Server (IHS) version 6.1 (available from IBM)

Table 3-26. Web Server support (page 2 of 2)

Operating System	Requirements
Red Hat Platforms	
For: <ul style="list-style-type: none"> ■ Red Hat Enterprise Linux AS 3.0 ■ Red Hat Enterprise Linux AS 4.0 	One of the following: <ul style="list-style-type: none"> ■ Sun Java System Web Server 6.1 (Service Pack 5 or later) ■ Apache HTTP Server 2.0 (version 2.0.50 or later)
SUSE Platforms	
For: <ul style="list-style-type: none"> ■ SUSE Linux Enterprise Server 9 	One of the following: <ul style="list-style-type: none"> ■ Sun Java System Web Server 6.1 (Service Pack 5 or later) ■ Apache HTTP Server 2.0 (version 2.0.50 or later)

4 HP Migrator and Extension Products and Environments

In This Chapter:

- *Overview of HP Migrator and Extension Support*
 - *HP Migrators*
 - *Application Requirements*
 - *File and Table Space Requirements*
 - *Archive Tables*
 - *HP Deployment Management Extension for Oracle E-Business Suite*
 - *HP Deployment Management Extension for Oracle Technology*
 - *HP Deployment Management Extension for PeopleSoft Enterprise*
 - *HP Deployment Management Extension for SAP Solutions*
-

Overview of HP Migrator and Extension Support

System requirements for version 7.1.0 of the HP Deployment Management Extensions and Migrators are the same as the system requirements for PPM Center version 7.1 in addition to the requirements listed in the following sections.

These supplemental products are available in English language only.

HP Migrators

Application Requirements

PPM Center version 7.1 used with HP Object Migrator supports the following Oracle E-Business Suite versions:

- 11
- 11i (11.5.1 through 11.5.10.2 (CU2)) (AD.I.6 support announced with SP8)
- Release 12 (12.0.0 through 12.0.4) (support starting between SP7 and SP8)
- Release 12 (12.0.5) (support announced with SP8)

For additional version information, see *Table 4-1*. Versions that are not supported for this version are shown in the lightly shaded areas.

Under the following circumstances you must download and install one (or more) HP-supplied patches to enable compatibility with Object Migrator:

- ▶ ■ If you plan to use Oracle E-Business Suite 11.5.10.2 (CU2), install patch 174141.
- If you plan to use Oracle E-Business Suite 11i with Oracle database version 10g, install patch 154770.

These patches are available from the HP Software Patches Web site (support.openview.hp.com/selfsolve/patches).

Table 4-1. Oracle E-Business Suite and Migrator support (page 1 of 2)

Oracle E-Business Suite Version	Kintana Object* Migrator Version 5.1	Mercury Object Migrator Version 6.0	HP Object Migrator Version 7.5 °	Kintana GL* Migrator Version 2.0	Mercury GL Migrator Version 6.0
11–11.5.1	7.1	7.1	7.1	7.1	7.1
11.5.2–11.5.6	7.1	7.1	7.1		7.1
11.5.7 Application Object Library: FND.E Applications DBA: AD.F Common Modules: AK.D Financials Suite: Family Pack A	7.1	7.1	7.1		7.1
11.5.8 Application Object Library: FND.F Applications DBA: AD.G Common Modules: AK.E Financials Suite: Family Pack C	7.1	7.1	7.1		7.1
11.5.9 ^a Application Object Library: FND.G Applications DBA: AD.H Common Modules: AK.F Financials Suite: Family Pack D	7.1	7.1	7.1		7.1
11.5.10 w ith FND.H Mini Pack ^{a, b, d} Application Object Library: FND.H Applications DBA:AD.I Common Modules: AK.G Financials Suite: Family Pack F		7.1	7.1		7.1

Table 4-1. Oracle E-Business Suite and Migrator support (page 2 of 2)

Oracle E-Business Suite Version	Kintana Object* Migrator Version 5.1	Mercury Object Migrator Version 6.0	HP Object Migrator Version 7.5 ^e	Kintana GL* Migrator Version 2.0	Mercury GL Migrator Version 6.0
11.5.10.2 (CU2) ^{c, d} Application Object Library:FND.H Applications DBA: AD.I.6 Common Modules: AK.G Financials Suite: Family Pack F		7.1	7.1		7.1
Release 12 12.0.0–12.0.5 Applications Technology: R12.ATG_Pf.A– R12.ATG_Pf.A.DELTA.4 Applications DBA: R12.AD.A– R12.AD.A.DELTA.4			7.1		

- a. 11.5.8 with the FND.G Mini Pack is functionally equivalent to 11.5.9.
- b. 11.5.8-11.5.9 with the FND.H Mini Pack is functionally equivalent to 11.5.10 (for HP Object Migrator).
11.5.8-11.5.9 with the Financials Family Pack F is functionally equivalent to 11.5.10 (for HP GL Migrator).
- c. See the Object Migrator Oracle Apps Release 11.5.10.2 Compatibility Patch (#174141) readme for details.
- d. Support for the Oracle Applications eBusiness Suite version 11.5.10 with the 10G database version requires installation of patch 154770. See the OM_60 Database version 10G Compatibility Patch (#154770) readme for details.
- e. Support for HP Object Migrator version 7.5 starting between SP7 and SP8. Support for Oracle E-Business Suite release 12.0.5 announced with SP8.

File and Table Space Requirements

Table 4-2 lists the file and table space requirements for HP Object Migrator. The table space sizings may vary widely depending on your database version, configuration, and the number of entities you have under version control.

Table 4-2. HP Object Migrator file and table space requirements

Item	Required Space	Recommended Space
Install bundle	30 MB (temporary)	35 MB (temporary)
Install scripts	5 MB	
Programs (.rdf files)	1.5 MB per program 30 MB total	
Interface tables	30 MB	60 MB
Indexes on interface tables	20 MB	30 MB
Archive tables and indexes	30 MB* *See Archive Tables , following.	60 MB

Archive Tables

When saving an object to the object archive, HP Object Migrator takes the entire definition of the entity and stores it in special archive tables. The growth of these archive tables directly corresponds to the number of objects and the number of versions put into these tables. For some objects, complexity and size may also be a factor.

If you plan to periodically store versions of entire groups of objects rather than only objects that change, then more table space will be required than the recommended 30 MB. HP recommends starting with a 30 MB allocation and then adding table space as needed.

HP Deployment Management Extension for Oracle E-Business Suite

PPM Center version 7.1 used with HP Deployment Management Extension for Oracle E-Business Suite supports the following Oracle E-Business Suite releases:

- 11–11.5.6
- 11.5.7
 - Application Object Library: FND.E
 - Applications DBA: AD.F
 - Common Modules: AK.D
 - Financials Suite: Family Pack A
- 11.5.8
 - Application Object Library: FND.F
 - Applications DBA: AD.G
 - Common Modules: AK.E
 - Financials Suite: Family Pack C
- 11.5.9
 - Application Object Library: FND.G
 - Applications DBA: AD.H
 - Common Modules: AK.F
 - Financials Suite: Family Pack D
- 11.5.10
 - Application Object Library: FND.H
 - Applications DBA: AD.I
 - Common Modules: AK.G
 - Financials Suite: Family Pack F

- 11.5.10.2 (CU2)
 - Application Object Library:FND.H
 - Applications DBA: AD.I.6 (support for AD.I.6 announced with SP8)
 - Common Modules: AK.G
 - Financials Suite: Family Pack F



11.5.8 with the FND.G Mini Pack is functionally equivalent to 11.5.9.

11.5.8-11.5.9 with the FND.H Mini Pack is functionally equivalent to 11.5.10.

Starting with PPM Center SP7, the HP Deployment Management Extension for Oracle E-Business Suite 7.1.0 EOESP1 supports the following:

- Release 12.0.0–12.0.4
 - Applications Technology: R12.ATG_PF.A–R12.ATG_PF.A.DELTA.4
 - Applications DBA: R12.A–R12.AD.A.DELTA.4

Starting with PPM Center SP8, the HP Deployment Management Extension for Oracle E-Business Suite 7.1.0 EOESP1 support has been expanded to the following:

- Release 12.0.0–12.0.5
 - Applications Technology: R12.ATG_PF.A–R12.ATG_PF.A.DELTA.4
 - Applications DBA: R12.A–R12.AD.A.DELTA.4

HP Deployment Management Extension for Oracle Technology

PPM Center version 7.1 used with HP Deployment Management Extension for Oracle Technology supports:

- Versions of Oracle tools that support Oracle database 8, 8i, 9i, or 10g
- Oracle Developer 2000 or Developer 6i

Starting with PPM Center SP7, the HP Deployment Management Extension for Oracle Technology service pack 7.1.0 EOTSP1 supports the following:

- Developer 10i
- Migrating Oracle Forms 10G files and Oracle Reports 10G files from one Oracle instance to another

HP Deployment Management Extension for PeopleSoft Enterprise

PPM Center version 7.1 used with HP Deployment Management Extension for PeopleSoft Enterprise supports the following PeopleTools versions:

- 8.1.x
- 8.4.1
- 8.44
- 8.46

HP Deployment Management Extension for SAP Solutions

PPM Center version 7.1 used with HP Deployment Management Extension for SAP Solutions supports the following:

- Basis 4.6B/4.6C
 - SAP R/3 4.6B/4.6C
- Basis 4.6D
 - APO 3.10
- Web Application Server 6.20
 - R/3 4.7
- NetWeaver 6.40
 - ECC 5.0.0
 - BW 3.50
 - CRM 4.0.0
 - EP 6.0
- NetWeaver 7.00
 - ECC 6.0.0



BC Sets and patching are supported on the NetWeaver 6.40 (or later) platform only. All other functionality is supported on all platforms.

5 Desupported Platforms and Products

In This Chapter:

- *Platforms and Products Desupported in Version 7.1*
 - *Server Environment*
 - *Client Environment*
 - *HP Extension and Migrator Environment*
-

Platforms and Products Desupported in Version 7.1

The following products are no longer used in support of version 7.1 of PPM Center.

This information is relevant to customers upgrading to version 7.1 from version 6.0. You will need to plan your upgrade such that replacements for any of these desupported platforms or products is completed prior to performing your PPM Center upgrade.

If you are upgrading from a version prior to version 6.0, incremental upgrades will be necessary (for example: version 5.5 to 6.0 followed by version 6.0 to 7.1). These interim upgrades potentially include their own collection of desupported platforms or products; therefore, consult the system requirements documents for these versions to ensure that your overall upgrade proceeds effectively and efficiently.

Server Environment

Components of the PPM Server that have been desupported are listed in the following sections.

Operating Systems

The following server operating systems are no longer supported:

- Microsoft Windows 2000 Server, SP4 or later
- Microsoft Windows 2000 Advanced Server, SP4 or later
- Solaris 7
- Solaris 8
- IBM AIX 5L version 5.1
- Red Hat Linux Advanced Server 2.1

Java Development Kit

The following JDK software is no longer supported:

- Sun Java JDK, Standard Edition 1.4.2_12 (desupport starting with SP9)
- HP-UX Java 2 JDK, Standard Edition version 1.4.2_11 (desupport starting with SP9)
- IBM JDK for AIX, Java 2 Technology Edition, version 1.4.2.1 (IBM AIX build ca142-20050929a) (desupport starting with SP9)

Databases

The following databases are no longer supported (or may never have been supported). Only the versions specified in [Chapter 3, *Server-Side Products and Environments*, on page 25](#) are supported in this version.

- Oracle versions 10 through 10.1.0.2
- All Oracle versions 9.2.0.4 and earlier
- Oracle version 9.2.0.5 and 9.2.0.5 RAC
- Oracle version 9.2.0.6 and 9.2.0.6 RAC

Secure Communications Products

The following secure communications products are no longer supported:

- OpenSSH version 3.9 (for Microsoft Windows)
- OpenSSH version 3.9p1 (for all UNIX platforms *except* Red Hat Enterprise Linux AS 4.0)
- Van Dyke V-Shell Server version 2.3.1 (for Microsoft Windows)
- Van Dyke V-Shell Server version 2.5 (for Microsoft Windows)
- SSH Communication (Tectia Server) version 4.1

Document Management

The HP document management solution relies on the Documentum Content Server, Documentum Foundation Classes (DFC), and full-text indexing software tailored by EMC and licensed for PPM Center use. For PPM Center version 6.0, version 5.2.5 was used as the baseline for this implementation.

For version 7.1, use of version 5.3 SP2 is required. Partial migration (upgrading the DFC) to this version would have already been undertaken if you are using version 6.0 SP10 (or later).

One of the features of version 5.3 is advanced indexing. In version 5.2.5, indexing was an integral component of the Content Server. In version 5.3, a separate Index Server is now required.

Starting with Service Pack 9, the DFC version 5.3 SP2 software has been desupported for IBM AIX platforms. Use DFC version 5.3 SP5 or 5.3 SP6 instead—DFC version 5.3 SP5 can be used with versions 5.3 SP2 and 5.3 SP5 of the Document Management Content and Index servers; DFC version 5.3

SP6 can be used with versions 5.3 SP2, 5.3 SP5, and 5.3 SP6 of the Document Management Content and Index servers.

The Document Management software is available from the HP Software Updates Web site (support.openview.hp.com/software_updates.jsp). However, it is important to note that some platforms and Oracle versions that were supported for version 5.2.5 are no longer supported for version 5.3.

Web Servers

Microsoft IIS 5.0 is no longer supported.

Communication Requirements

Ataman TCP Remote Logon Services (ATRLS) version 3.1 is no longer supported.

Client Environment

Desupported products for the client environment are listed in the following sections.

Operating Systems

The following platforms were never actually supported and this information is being included to improve clarity and accuracy:

- Microsoft Windows XP Home Edition
- Microsoft Windows XP Media Center Edition
- Microsoft Windows XP Tablet PC Edition
- Microsoft Windows XP Professional x64 Edition

Browsers

The following browsers are no longer supported:

- Microsoft Internet Explorer 6.0 (SP1)
- Mozilla Firefox 1.0.x

Java Plug-In Versions

The following version of the Java plug-in is no longer supported:

- 1.4.2_06 or later (desupport starting with SP9)

HP Extension and Migrator Environment

The following Extensions are not supported in this version:

- HP Change Management Extension for Databases
- HP Change Management Extension for Siebel eBusiness Applications

Oracle eBusiness Suite version 10.x is no longer supported; however, Oracle database version 10.x with Oracle eBusiness Suite Extension is supported.

Oracle tools that support Oracle database version 7 is no longer supported for the HP Deployment Management Extension for Oracle Technology.

