

HP Project and Portfolio Management Center

Software Version: 8.04

System Requirements and Compatibility Matrix

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The following table indicates changes made to this document.

Publication Date	Summary of Changes
October 21, 2009 (8.00.01)	<ul style="list-style-type: none">● Added support for HP Universal CMDB version 8.0.1 and 8.0.2 in the Application Lifecycle Management integration suite● Added Windows Server 2008 Standard Edition SP2 (32-Bit/64-Bit) and Enterprise Edition SP2 (32-Bit/64-Bit) support for PPM Center server platforms (support starting with PPM Center version 8.00.01)● Added Microsoft Vista Business Edition SP2 and Microsoft Vista Enterprise Edition SP2 support for PPM Center client platforms● Added Internet Explorer 8.0 support● Added Oracle 11.1.0.7 support for all other platforms in addition to Microsoft platforms● Added OpenSSH version 5.1p1 (included in Cygwin) support for PPM Center server on Microsoft platforms
April 15, 2010 (8.00.01)	<ul style="list-style-type: none">● Removed Sun Java System Web Server 7.0 support for Sun Solaris 9 and 10● Removed IIS 7.0 support on Microsoft Windows Server 2008 64-bit platforms
June 3, 2010 (8.00.01)	<ul style="list-style-type: none">● Added clarification that only 32-bit JDK is supported for all platforms
August 4, 2010 (8.02)	<ul style="list-style-type: none">● Added Microsoft Windows 7 support for PPM Center client platforms● Added VMware ESX Server 4.0 support● Added Oracle 11.2.0.1.0 (RAC and Non-RAC) support for all PPM Center server platforms● Added support for HP Service Manager version 7.11● Added Mozilla FireFox 3.6 support● Added clarification of Red Hat Enterprise Linux major version support for Documentum
October 8, 2010	<ul style="list-style-type: none">● Added clarification of OpenSSH with Cygwin support for Microsoft Windows Server 2008, starting from PPM Center version 8.00.01.

Publication Date	Summary of Changes
November 16, 2010 (8.02)	<ul style="list-style-type: none"> • Added clarification of support for Oracle E-Business Suite Release 12 (12.0.0-12.1.2) • Added clarification of Apache HTTP Server 2.0 and 2.2 support for PPM Center
December 8, 2010	<ul style="list-style-type: none"> • Added clarification of client side mobile platform support, starting from PPM Center version 8.00.
April 2011 (8.03)	<ul style="list-style-type: none"> • Added Oracle 10.2.0.5 (RAC and Non-RAC) support for all PPM Center server platforms • Added support for HP Service Manager version 9.20 • Added support for HP Universal CMDB version 9.00 in the Application Lifecycle Management integration suite • Added support for HP Universal CMDB version 8.06 for attaching Universal CMDB Impact Analysis Report to requests in PDF format • Added clarification of Bourne shell support on all UNIX platforms • Added clarification of PPM Center support for IBM AIX 5L version 5.3 running on 64-bit hardware • Added clarification of Microsoft Windows 7 (both 32- and 64 bit) support for PPM Center client platforms
July 2011 (8.03)	<ul style="list-style-type: none"> • Added support for Oracle E-Business Suite Release 12.1.3 using HP Deployment Management Extension for Oracle E-Business Suite (with patch PPMC_00097) • Removed support for Kintana GL*Migrator version 2.0 and Oracle E-Business Suite Release 11 and Releases 11.5.1 through 11.5.6 (which are early releases of 11i) • Updated the Java Plug-In version required to access the PPM Workbench when using the Mozilla Firefox 3.6 browser.
September 2011 (8.03)	<ul style="list-style-type: none"> • Added support for Xplore Index Server v1.1 on Documentum Content Server 6.5 SP2 for PPM Center 8.03
October 2011 (8.04)	<ul style="list-style-type: none"> • Added support for Microsoft Project 2010 • Added support for Microsoft Excel 2010 • Added support for Internet Explorer 9 • Added support for VMware ESXi Server 4.1 • Added Oracle 11.2.0.2 support (RAC and Non-RAC) support for all PPM Center server platforms • Added clarification of types of Oracle editions (Standard Edition and Enterprise Edition) supported for PPM Center on all operating platforms



The change bars in the left margins reflect the modifications made in the *most recent* version of the guide.

Contents

1	Introduction	11
	About This Guide	11
	An Overview of the PPM Center Architecture	11
	An Overview of Language Support	14
	Related Information	15
2	Client-Side Products and Environments	17
	Overview of Client-Side Support	17
	Platform and Browser Requirements	17
	Multilingual User Interface Support	20
	PPM Workbench Requirements	20
	Java™ Plug-In Requirements	20
	Disk Space Requirements	20
	Optional Products	21
	Microsoft Project	21
	Microsoft Excel	21
	Language Support	22
3	Server-Side Products and Environments	23
	Overview of Server-Side Support	23
	Important Considerations	23
	PPM Server Platforms	26
	Microsoft Platforms	26
	Sun Platforms	33
	HP Platforms	36
	IBM Platforms	39
	Red Hat Platforms	42
	SUSE Platforms	46
	Hardware Sizing Estimates	50

Email Server Requirements	51
PPM Center Database Platforms	52
Microsoft Platforms	52
Sun Platforms	56
HP Platforms	57
IBM Platforms	60
Red Hat Platforms	62
SUSE Platforms	63
Database Character Sets	65
Document Management Solution	66
Document Management Servers	66
For More Information	66
Environment and System Requirements for Xplore Index Server 1.1	66
Microsoft Platforms	68
Sun Platforms	69
HP Platforms	70
IBM Platforms	71
Red Hat Platforms	72
SUSE Platforms	73
Document Management Content Server and Index Server Sizing Recommendations	73
Document Management Database	75
Microsoft Platforms	75
Sun Platforms	77
HP Platforms	79
IBM Platforms	81
Red Hat Platforms	83
SUSE Platforms	85
Document Management Database Sizing Recommendations	86
Documentum Integration	88
Preparing to Integrate PPM Center with a Stand-Alone Instance of EMC Documentum Enterprise Edition 88	
DFC Supported PPM Server Platforms	88
External Web Servers	89
4 HP Migrator and Extension Products and Environments	93
Overview of HP Migrator and Extension Support	93
Migrators	93
Application Requirements	93
File and Table Space Requirements	96

Archive Tables	96
HP Deployment Management Extension for Oracle E-Business Suite	97
HP Deployment Management Extension for Oracle Technology	98
HP Deployment Management Extension for SAP Solutions	99
5 Using PPM Center with HP Software and Other Software	101
Application Lifecycle Management (ALM)	101
HP Center Management for Quality Center	102
6 Desupported Platforms and Products	103
Platforms and Products Desupported in This Version	103
Server Environment	103
Platforms	103
Databases	104
JDK/SDK Software	104
Web Servers	104
SSH Software	104
Other Products	105
Client Environment	105
Platforms	105
Java Plug-In Requirements	105
Optional Products	105

1 Introduction

About This Guide

Welcome to HP Project and Portfolio Management Center (PPM Center). The 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 this version of PPM Center. Additionally, this guide identifies required third-party software as well as software that can be used to enable optional features, functionality, and topologies.

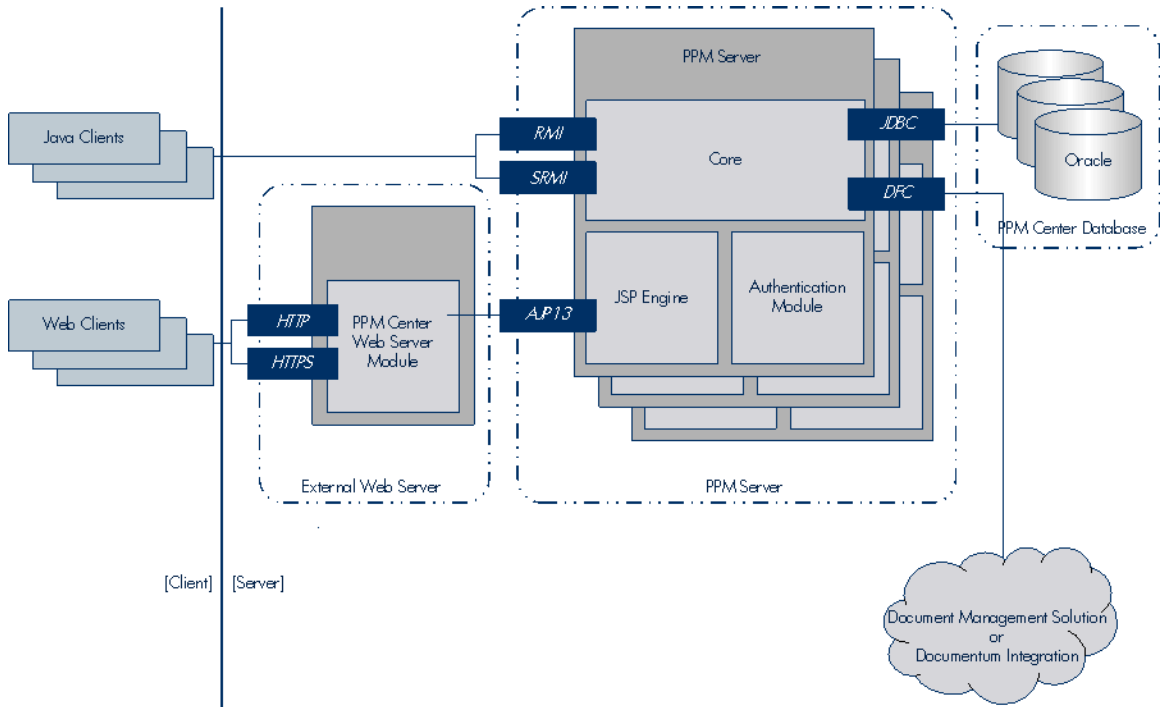


Because of ongoing product enhancements and defect fixes provided in new versions of PPM Center, if you want to upgrade from this version of PPM Center, you might need to upgrade to a specific version (or later). For detailed information about supported upgrade paths, see the Release Notes for the versions of interest or contact HP Customer Support.

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 *Installation and Administration Guide* for details about the available system configuration options.

Figure 1-1. PPM Center architecture



Chapter 2, *Client-Side Products and Environments*, on page 17 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 23 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 content management components. Documents can be associated with various PPM Center entities using one of these mechanisms:

- **Attachments.** This limited functionality is an integral portion of the product and does not require additional software installation or hardware.

- **HP Document Management solution.** This solution provides enhanced content management functionality within PPM Center and requires additional software.
- **Documentum integration.** PPM Center can be integrated with a separate (standalone) deployment of EMC Documentum. This approach can provide more seamless content management across your enterprise. The software to enable this integration can be purchased from HP.

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 version 6.0.

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 93 details the third-party software supported for the PPM Center Extensions and Migrators.

Chapter 5, *Application Lifecycle Management (ALM)*, on page 101 details support requirements for the PPM Center integration products.

Chapter 6, *Platforms and Products Desupported in This Version*, on page 103 provides details on the platforms and products that have been desupported with the release of this software version.

An Overview of Language Support

The PPM Center software must be installed (or upgraded) and maintained on servers relying on either an English-language or Japanese-language operating system. Installation of language packs provide the appropriate language content for the principal areas of the PPM Center user interface and entities. PPM Center clients should use one of the languages deployed on the PPM Center instance.

The following languages are supported:

- English (en)
- German (de)
- Korean (ko)
- Czech (cs)
- Brazilian Portuguese (pt)
- French (fr)
- Hungarian (hu)
- Italian (it)
- Japanese (jp)
- Russian (ru)
- Simplified Chinese (zh)
- Spanish (es)
- Turkish (tr)



Language codes (abbreviations) may need to be used when generating fiscal periods, translating customized entities, or identifying language-specific paths on the PPM Server. Make sure that you use the language codes shown in parentheses in the previous list and that the specified language is installed on PPM Center.

Related Information

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

- *Installation and Administration Guide*

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 both the Document Management solution and the Documentum integration.

- *Release Notes*

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.

2 Client-Side Products and Environments

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

Client requirements include the following:

- Operating system
 - Microsoft® Windows® XP Professional SP1 (32-bit)
 - Microsoft® Windows® XP Professional SP2 (32-bit support only)
 - Microsoft® Windows® XP Professional SP3 (32-bit)
 - Microsoft Vista® Business Edition (both 32- and 64-bit)
 - Microsoft Vista Enterprise Edition (both 32- and 64-bit)
 - Microsoft Vista® Business Edition SP0 (both 32- and 64-bit)
 - Microsoft Vista Enterprise Edition SP0 (both 32- and 64-bit)
 - Microsoft Vista® Business Edition SP1 (both 32- and 64-bit)
 - Microsoft Vista Enterprise Edition SP1 (both 32- and 64-bit)

- Microsoft Vista® Business Edition SP2 (both 32- and 64-bit)
- Microsoft Vista Enterprise Edition SP2 (both 32- and 64-bit)
- Microsoft Windows 7 (both 32- and 64-bit)
- Mobile operating system
 - Windows Mobile 6.1
 - Blackberry OS 4.6.0.167
 - Symbian OS 9.3
- Hardware
 - 1.0 GHz (or faster) processor
 - RAM
 - At least 512 MB
 - For PPM Workbench, at least 1 GB
- Adobe® Acrobat Reader 5.0 (or later)
- Browser
 - Microsoft Internet Explorer 6.0

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.

- Microsoft Internet Explorer 7.0

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

- Enable native XMLHTTP support

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

- Microsoft Internet Explorer 8.0

The ActiveX security settings required for Microsoft Internet Explorer 6.0 SP2 are not required for Microsoft Internet Explorer version 8.0 provided the following setting is enabled:

- Enable native XMLHTTP support

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

- Microsoft Internet Explorer 9.0

The ActiveX security settings required for Microsoft Internet Explorer 6.0 SP2 are not required for Microsoft Internet Explorer version 9.0 provided the following setting is enabled:

- Enable native XMLHTTP support

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

- Mozilla Firefox 2

- Mozilla Firefox 3

- Mozilla Firefox 3.5

- Mozilla Firefox 3.6 (See *Java™ Plug-In Requirements* on page 20.)

Multilingual User Interface Support

To support the languages listed in [Chapter 1, *Introduction*, on page 11](#), clients should be configured with at least one of the languages as that installed on the PPM Center instance.

For example, if your PPM Center instance has only 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:

- 1.6.0_07 or later (32-bit only) for all supported browsers except Mozilla Firefox 3.6



Mozilla has desupported the Java 1.6.0_07 (6.0 update 7) plug-in with Firefox 3.6. Firefox 3.6 users who must access the PPM Workbench must download and install version 1.6.0_19 (6.0 update 19) or later of the Java plug-in from the JRE downloads on the following Web page:

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

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 this version of PPM Center.

Microsoft Project

HP Project Management supports the following versions of Microsoft Project:

- Microsoft Project Standard 2003 SP3
- Microsoft Project Professional 2003 SP3
(single-user or connected to Microsoft Office Project Server 2003)
- Microsoft Office Project Standard 2007 SP1
- Microsoft Office Project Professional 2007 SP1
(single-user or connected to Microsoft Office Project Server 2007)
- Microsoft Office Project Standard 2010
- Microsoft Office Project Professional 2010
(single-user or connected to Microsoft Office Project Server 2007)

[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 Office Excel 2003 SP3
- Microsoft Office Excel 2007 SP1
- Microsoft Office Excel 2010

Language Support

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

For example, if your PPM Center instance has the French language pack installed, clients with a French session language should use French for their optional software products.



Do not attempt to use PPM Center with software products that have a mix of languages, such as a PPM Center instance supporting English, Korean, and French interacting with a German client having an Italian version of Excel software. All the software products used in your PPM Center client should rely on the same language, and this language must also be supported on the PPM Center instance.

3 Server-Side Products and Environments

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, be aware that HP supports use of 64-bit JVM for the Oracle database but not for PPM Center.

See details in *Table 3-1* through *Table 3-12*.

- Operating System Support
 - Support for each operating system version assumes that the appropriate patch or patches have been applied to support the Java 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 (on x86 platforms) Server is supported, this version of PPM Center 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.

- HP Integrity Virtual Machine
 - HP Project and Portfolio Management Center for HP-UX 11i Integrity is binary compatible to run within an HP Integrity Virtual Machine (VM).
- Language Support
 - The language for the operating system used for both the PPM Server and database must be either English or Japanese regardless of the languages deployed on the PPM Center instance.
 - Implementation of the various languages on the PPM Center instance may require additional configuration and maintenance.
 - Deployment of the Document Management solution can support these languages:
 - English
 - German
 - Integration with Documentum can support these languages:
 - English
 - German
 - Korean
 - National language support is available for the Application Lifecycle Management integration software and the Migrators and Extensions on a limited basis—see the appropriate product documentation for details.

PPM Server Platforms

Microsoft Platforms

Table 3-1. PPM Server requirements on Microsoft platforms (page 1 of 7)

Operating System	Requirements	Additional Information
Platform (without either the Document Management solution or Documentum integration)		
<p>One of the following:</p> <ul style="list-style-type: none"> • Microsoft Windows Server 2003, Standard/Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server 2003 SP1, Standard/Enterprise Edition (32-bit only) • Microsoft Windows Server 2003 R2, Standard/Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server 2003 R2 SP2, Standard/Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server 2008, Datacenter/Standard/Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server 2008 SP1, Standard/Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server 2008 SP2, Standard/Enterprise Edition (both 32- and 64-bit) 	<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 50 for additional considerations. • Limits on physical memory for 32-bit Windows operating systems depend in part on whether the Physical Address Extension (PAE) is enabled. The PAE allows some 32-bit Windows systems (Windows Server 2008 Datacenter and Windows Server 2008 Enterprise) to use more than 4 GB of physical memory. (To enable PAE, use the <code>/PAE</code> switch in the <code>Boot.ini</code> file.) Because PAE is not available for Windows Server 2003 32-bit Standard Edition, the total available physical RAM on this system is limited to 4 GB. For detailed information about memory support and memory limitations on Windows operating systems, see Microsoft Support online.

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

Operating System	Requirements	Additional Information
<p>When installed on an x86 VMware ESX Server version 2.5.3, 2.5.4, or 2.5.5 partition, one of the following:</p> <ul style="list-style-type: none"> • Microsoft Windows Server 2003, Standard/Enterprise Edition (32-bit only) • Microsoft Windows Server 2003 SP1, Standard/Enterprise Edition (32-bit only) • Microsoft Windows Server 2003 R2, Standard/Enterprise Edition (32-bit only) • Microsoft Windows Server 2003 R2 SP2, Standard/Enterprise Edition (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 Software Support (hp.com/go/hpssoftwaresupport).
<p>When installed on an x86 VMware ESX Server version 3.0.1 or 3.0.2 partition, one of the following:</p> <ul style="list-style-type: none"> • Microsoft Windows Server 2003, Standard/Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server 2003 SP1, Standard/Enterprise Edition (32-bit only) • Microsoft Windows Server 2003 R2, Standard/Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server 2003 R2 SP2, Standard/Enterprise Edition (both 32- and 64-bit) 	<p>All of the following:</p> <ul style="list-style-type: none"> • x86 and compatible chip architectures (1.5 GHz) • 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 Software Support (hp.com/go/hpssoftwaresupport).

Table 3-1. PPM Server requirements on Microsoft platforms (page 3 of 7)

Operating System	Requirements	Additional Information
<p>When installed on an x86 VMware ESX Server 3.5.0 or 4.0.0 partition, or VMware ESXi Server 4.1 partition, one of the following:</p> <ul style="list-style-type: none"> All Microsoft operating systems previously identified in this table 	<p>All of the following:</p> <ul style="list-style-type: none"> x86 and compatible chip architectures (1.5 GHz) 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 Software Support (hp.com/go/hpssoftwaresupport). Limits on physical memory for 32-bit Windows operating systems depend in part on whether the Physical Address Extension (PAE) is enabled. The PAE allows some 32-bit Windows systems (Windows Server 2008 Datacenter and Windows Server 2008 Enterprise) to use more than 4 GB of physical memory. (To enable PAE, use the <code>/PAE</code> switch in the <code>Boot.ini</code> file.) Because PAE is not available for Windows Server 2003 Standard Edition, the total available physical RAM on this system is limited to 4 GB. For detailed information about memory support and memory limitations on Windows operating systems, see Microsoft Support online.

Table 3-1. PPM Server requirements on Microsoft platforms (page 4 of 7)

Operating System	Requirements	Additional Information
Platform (with Document Management solution)		
<p>One of the following:</p> <ul style="list-style-type: none"> • Microsoft Windows Server, 2003 SP2, Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server, 2003 R2 with SP2, Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server, 2008 (both 32- and 64-bit) 	<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 50 for additional considerations. • Limits on physical memory for 32-bit Windows operating systems depend in part on whether the Physical Address Extension (PAE) is enabled. The PAE allows some 32-bit Windows systems (Windows Server 2008 Datacenter and Windows Server 2008 Enterprise) to use more than 4 GB of physical memory. (To enable PAE, use the /PAE switch in the <code>Boot.ini</code> file.) Because PAE is not available for Windows Server 2003 Standard Edition, the total available physical RAM on this system is limited to 4 GB. For detailed information about memory support and memory limitations on Windows operating systems, see Microsoft Support online. • To integrate with Documentum Enterprise Edition 6.5, DFC 6.5 is required on PPM Server. It is recommended to have the latest SP of DFC.

Table 3-1. PPM Server requirements on Microsoft platforms (page 5 of 7)

Operating System	Requirements	Additional Information
JDK Software		
All Microsoft operating systems previously identified in this table	The following: <ul style="list-style-type: none"> • Java Platform Standard Edition 6 Development Kit (JDK) 1.6.0_07 (32-bit only) (available from Sun) 	
Communications Software		
All 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: <ul style="list-style-type: none"> • All previously identified Microsoft Windows Server 2003-based versions 	One of the following: <ul style="list-style-type: none"> • OpenSSH version 4.5p1, (included in Cygwin) • OpenSSH version 4.6p1, (included in Cygwin) • OpenSSH version 4.7p1, (included in Cygwin) • OpenSSH version 4.9p1, (included in Cygwin) • OpenSSH version 5.1p1, (included in Cygwin) • VanDyke (VShell Server) version 2.6 • Van Dyke (VShell Server) version 3.0 	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

Table 3-1. PPM Server requirements on Microsoft platforms (page 6 of 7)

Operating System	Requirements	Additional Information
<p>For:</p> <ul style="list-style-type: none"> All previously identified Microsoft Windows Server 2008-based versions 	<p>One of the following:</p> <ul style="list-style-type: none"> OpenSSH version 4.5p1, (included in Cygwin) OpenSSH version 4.6p1, (included in Cygwin) OpenSSH version 4.7p1, (included in Cygwin) OpenSSH version 4.9p1, (included in Cygwin) OpenSSH version 5.1p1, (included in Cygwin) Van Dyke (VShell Server) version 3.0 	<p>During Cygwin installation, use the following settings:</p> <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		
<p>All Microsoft operating systems previously identified in this table</p>	<p>One of the following:</p> <ul style="list-style-type: none"> “Dumb” mode VT100 mode VT220 mode 	

Table 3-1. PPM Server requirements on Microsoft platforms (page 7 of 7)

Operating System	Requirements	Additional Information
Other Software		
All 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. • Oracle Java virtual machine (OracleJVM) must be enabled for PPM Center. For more information, see the <i>Installation and Administration Guide</i> or the <i>Upgrade Guide</i>.
All 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 51 for details.
All 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 either the Document Management solution or Documentum integration)		
One of the following: <ul style="list-style-type: none"> • Sun Solaris 9, Patches 1 through 9 • Sun Solaris 10, Patches 1 through 8 	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 • 300 MB on root partition (for installation 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 50 for additional considerations.
Platform (with Document Management solution)		
The following: <ul style="list-style-type: none"> • 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 • 300 MB on root partition (for installation 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 50 for additional considerations. • To integrate with Documentum Enterprise Edition 6.5, DFC 6.5 is required on PPM Server. It is recommended to have the latest SP of DFC.
JDK Software		
All Sun operating systems previously identified in this table	The following: <ul style="list-style-type: none"> • Java Platform Standard Edition 6 Development Kit (JDK) 1.6.0_07 (32-bit only) (available from Sun) 	

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

Operating System	Requirements	Additional Information
Secure Communications Software		
For: <ul style="list-style-type: none"> • All previously identified Sun Solaris 9-based versions 	One of the following: <ul style="list-style-type: none"> • SSH-2.0_Sun_SSH_1.0 • OpenSSH version 4.6p1 • OpenSSH version 4.7p1 • OpenSSH version 4.9p1 	
For: <ul style="list-style-type: none"> • All previously identified Sun Solaris 10-based versions 	One of the following: <ul style="list-style-type: none"> • SSH-2.0_Sun_SSH_1.1 • OpenSSH version 4.6p1 • OpenSSH version 4.7p1 • OpenSSH version 4.9p1 	
Terminal Emulation Software		
All 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		
All 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. • Oracle Java virtual machine (OracleJVM) must be enabled for PPM Center. For more information, see the <i>Installation and Administration Guide</i> or the <i>Upgrade Guide</i>.
All Sun operating systems previously identified in this table	(Optional) The following: <ul style="list-style-type: none"> • Email application configuration 	If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 51 for details.
All Sun operating systems previously identified in this table	The following: <ul style="list-style-type: none"> • Bourne shell 	The Bourne shell is available by default on most UNIX systems. However, in some environments, it might be not configured or enabled. Check with your UNIX system administrator to make sure that the Bourne shell is available and configured on your system.

HP Platforms

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

Operating System	Requirements	Additional Information
Platform (without either the Document Management solution or Documentum integration)		
<p>One of the following:</p> <ul style="list-style-type: none"> • HP-UX 11i v2 • HP-UX 11i v3 	<p>One of the following processor options:</p> <ul style="list-style-type: none"> • Itanium 2 (1.4 GHz) • PA-RISC (1 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> • 2 GB RAM • 600 MB disk space • 400 MB temp space • 300 MB on root partition (for installation 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 50 for additional considerations.
<p>When using the Integrity VM, one of the following:</p> <ul style="list-style-type: none"> • HP-UX 11i v2 • HP-UX 11i v3 	<p>All of the following:</p> <ul style="list-style-type: none"> • Itanium 2 (1.4 GHz) • 2 GB RAM • 600 MB disk space • 400 MB temp space • 300 MB on root partition (for installation only) 	
Platform (with Document Management solution)		
<p>The following:</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"> • Itanium 2 (1.4 GHz) • PA-RISC (1 GHz) <p>Plus all of the following:</p> <ul style="list-style-type: none"> • 2 GB RAM • 600 MB disk space • 400 MB temp space • 300 MB on root partition (for installation 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 50 for additional considerations. • To integrate with Documentum Enterprise Edition 6.5, DFC 6.5 is required on PPM Server. It is recommended to have the latest SP of DFC.

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

Operating System	Requirements	Additional Information
JDK Software		
All HP operating systems previously identified in this table (except HP-UX 11i v2, PA-RISC)	The following: <ul style="list-style-type: none"> ● HP-UX Java Development Kit (JDK) for the Java 2 Platform Standard Edition 6 (Java SE 6) version 6.0.02 (32-bit only) (available from HP) 	
HP-UX 11i v2, PA-RISC	The following: <ul style="list-style-type: none"> ● HP-UX Java Development Kit (JDK) for the Java 2 Platform Standard Edition 6 (Java SE 6) version 6.0.03 (32-bit only) (available from HP) 	
Secure Communications Software		
All HP operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ● OpenSSH version 4.2p1 ● OpenSSH version 4.3p2 ● OpenSSH version 4.4p1 ● OpenSSH version 4.7p1 ● OpenSSH version 4.9p1 	
Terminal Emulation Software		
All HP operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> ● “Dumb” mode ● VT100 mode ● VT220 mode 	

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

Operating System	Requirements	Additional Information
Other Software		
All 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. • Oracle Java virtual machine (OracleJVM) must be enabled for PPM Center. For more information, see the <i>Installation and Administration Guide</i> or the <i>Upgrade Guide</i>.
All HP operating systems previously identified in this table	(Optional) The following: <ul style="list-style-type: none"> • Email application configuration 	If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 51 for details.
All HP operating systems previously identified in this table	The following: <ul style="list-style-type: none"> • Bourne shell 	The Bourne shell is available by default on most UNIX systems. However, in some environments, it might be not configured or enabled. Check with your UNIX system administrator to make sure that the Bourne shell is available and configured on your system.

IBM Platforms

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

Operating System	Requirements	Additional Information
Platform (without either the Document Management solution or Documentum integration)		
<p>The following:</p> <ul style="list-style-type: none"> IBM AIX 5L version 5.3 	<p>All of the following:</p> <ul style="list-style-type: none"> POWER4/POWER5 (both 32- and 64-bit) 2 GB RAM 600 MB disk space 400 MB temp space 300 MB on root partition (for installation 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 50 for additional considerations.
Platform (with Document Management solution)		
<p>The following:</p> <ul style="list-style-type: none"> IBM AIX 5L version 5.3 TL9 	<p>All of the following:</p> <ul style="list-style-type: none"> POWER4/POWER5 (both 32- and 64-bit) 2 GB RAM 600 MB disk space 400 MB temp space 300 MB on root partition (for installation 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 50 for additional considerations. To integrate with Documentum Enterprise Edition 6.5, DFC 6.5 is required on PPM Server. It is recommended to have the latest SP of DFC.
JDK Software		
<p>All IBM operating systems previously identified in this table</p>	<p>The following:</p> <ul style="list-style-type: none"> Java(TM) SE Runtime Environment (build pap3260sr7-20091215_02(SR7)) IBM J9 VM (build 2.4, JRE 1.6.0) IBM J9 2.4 AIX ppc-32 jvmap3260sr7-20091214_49398 	

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

Operating System	Requirements	Additional Information
Secure Communications Software		
For: <ul style="list-style-type: none"> • IBM AIX 5L version 5.3 	One of the following: <ul style="list-style-type: none"> • OpenSSH version 4.1p1 • OpenSSH version 4.3p2 • OpenSSH version 4.4p1 • OpenSSH version 4.5p1 • OpenSSH version 4.6p1 • OpenSSH version 4.7p1 • OpenSSH version 4.9p1 	
Terminal Emulation Software		
All IBM operating systems previously identified in this table	One of the following: <ul style="list-style-type: none"> • “Dumb” mode • VT100 mode • VT220 mode 	

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

Operating System	Requirements	Additional Information
Other Software		
All IBM operating systems previously identified in this table	One of 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. • Oracle Java virtual machine (OracleJVM) must be enabled for PPM Center. For more information, see the <i>Installation and Administration Guide</i> or the <i>Upgrade Guide</i>.
All IBM operating systems previously identified in this table	(Optional) The following: <ul style="list-style-type: none"> • Email application configuration 	If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 51 for details.
All IBM operating systems previously identified in this table	The following: <ul style="list-style-type: none"> • Bourne shell 	The Bourne shell is available by default on most UNIX systems. However, in some environments, it might be not configured or enabled. Check with your UNIX system administrator to make sure that the Bourne shell is available and configured on your system.

Red Hat Platforms

Table 3-5. PPM Server requirements on Red Hat platforms (page 1 of 4)

Operating System	Requirements	Additional Information
Platform (without either the Document Management solution or Documentum integration)		
<p>One of the following:</p> <ul style="list-style-type: none"> • Red Hat Enterprise Linux AS 4.0, (both 32- and 64-bit) • Red Hat Enterprise Linux AS 4.0, Updates 1 through 6 (both 32- and 64-bit) • Red Hat Enterprise Linux AS 5.0 (both 32- and 64-bit) • Red Hat Enterprise Linux AS 5.0, Update 1 (both 32- and 64-bit) 	<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 • 300 MB on root partition (for installation 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 50 for additional considerations.
<p>When installed on an x86 VMware ESX Server version 2.5.3, 2.5.4, or 2.5.5 partition, one of the following:</p> <ul style="list-style-type: none"> • Red Hat Enterprise Linux AS 4.0, (32-bit only) • Red Hat Enterprise Linux AS 4.0, Updates 1 through 6 (32-bit only) • Red Hat Enterprise Linux AS 5.0 (32-bit only) • Red Hat Enterprise Linux AS 5.0, Update 1 (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 • 300 MB on root partition (for installation only) 	<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 Software Support (hp.com/go/hpsoftwaresupport)

Table 3-5. PPM Server requirements on Red Hat platforms (page 2 of 4)

Operating System	Requirements	Additional Information
<p>When installed on an x86 VMware ESX Server 3.0.1, 3.0.2, 3.5.0, or 4.0.0 partition, or VMware ESXi Server 4.1 partition, one of the following:</p> <ul style="list-style-type: none"> • Red Hat Enterprise Linux AS 4.0, (both 32- and 64-bit) • Red Hat Enterprise Linux AS 4.0, Updates 1 through 6 (both 32- and 64-bit) • Red Hat Enterprise Linux AS 5.0 (both 32- and 64-bit) • Red Hat Enterprise Linux AS 5.0, Update 1 (both 32- and 64-bit) 	<p>All of the following:</p> <ul style="list-style-type: none"> • x86 and compatible chip architectures (1.5 GHz) • 3 GB RAM • 600 MB disk space for installed files • 400 MB temporary space for installation files • 300 MB on root partition (for installation only) 	<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 Software Support (hp.com/go/hpssoftwaresupport)
Platform (with Document Management solution)		
<p>The following:</p> <ul style="list-style-type: none"> • Red Hat Enterprise Linux AS 4.0 • Red Hat Enterprise Linux AS 5.0 	<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 • 300 MB on root partition (for installation only) 	<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 50</i> for additional considerations. • To integrate with Documentum Enterprise Edition 6.5, DFC 6.5 is required on PPM Server. It is recommended to have the latest SP of DFC. <p>Note: For information about Red Hat Enterprise Linux patch level support for Documentum, see your EMC Documentum product documentation or the Powerlink website (http://powerlink.EMC.com).</p>

Table 3-5. PPM Server requirements on Red Hat platforms (page 3 of 4)

Operating System	Requirements	Additional Information
JDK Software		
All Red Hat operating systems previously identified in this table	The following: <ul style="list-style-type: none"> • Java Platform Standard Edition 6 Development Kit (JDK) 1.6.0_07 (32-bit only) (available from Sun) 	
Secure Communications Software		
For: <ul style="list-style-type: none"> • Red Hat Enterprise Linux AS 4.0, (both 32- and 64-bit) • Red Hat Enterprise Linux AS 4.0, Updates 1 through 6 (both 32- and 64-bit) 	One of the following: <ul style="list-style-type: none"> • OpenSSH version 3.9p1 (included with the product bundle from Red Hat, Inc.) • OpenSSH version 4.3p1 • OpenSSH version 4.3p2 • OpenSSH version 4.4p1 • OpenSSH version 4.5p1 • OpenSSH version 4.6p1 • OpenSSH version 4.7p1 • OpenSSH version 4.9p1 	
For: <ul style="list-style-type: none"> • Red Hat Enterprise Linux AS 5.0 (both 32- and 64-bit) • Red Hat Enterprise Linux AS 5.0, Update 1 (both 32- and 64-bit) 	One of the following: <ul style="list-style-type: none"> • OpenSSH version 4.3p2 (included with the product bundle from Red Hat, Inc.) • OpenSSH version 4.4p1 • OpenSSH version 4.5p1 • OpenSSH version 4.6p1 • OpenSSH version 4.7p1 • OpenSSH version 4.9p1 	
Terminal Emulation Software		
All 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 	

Table 3-5. PPM Server requirements on Red Hat platforms (page 4 of 4)

Operating System	Requirements	Additional Information
Other Software		
All Red Hat operating systems previously identified in this table	One of 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. • Oracle Java virtual machine (OracleJVM) must be enabled for PPM Center. For more information, see the <i>Installation and Administration Guide</i> or the <i>Upgrade Guide</i>.
All Red Hat operating systems previously identified in this table	(Optional) The following: <ul style="list-style-type: none"> • Email application configuration 	If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 51 for details.
All Red Hat operating systems previously identified in this table	The following: <ul style="list-style-type: none"> • Bourne shell 	The Bourne shell is available by default on most UNIX systems. However, in some environments, it might be not configured or enabled. Check with your UNIX system administrator to make sure that the Bourne shell is available and configured on your system.

SUSE Platforms

Table 3-6. PPM Server requirements on SUSE platforms (page 1 of 5)

Operating System	Requirements	Additional Information
Platform (without either the Document Management solution or Documentum integration)		
<p>One of the following:</p> <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 9 (both 32- and 64-bit) • SUSE Linux Enterprise Server 9, SPs1 through 4 (both 32- and 64-bit) • SUSE Linux Enterprise Server 10 (both 32- and 64-bit) • SUSE Linux Enterprise Server 10, SP1 (both 32- and 64-bit) 	<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 • 300 MB on root partition (for installation 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 50 for additional considerations.
<p>When installed on an x86 VMware ESX Server 2.5.3, 2.5.4, or 2.5.5 partition, one of the following:</p> <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 9 (32-bit only) • SUSE Linux Enterprise Server 9, SPs1 through 4 (32-bit only) • SUSE Linux Enterprise Server 10 (32-bit only) • SUSE Linux Enterprise Server 10, SP1 (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 • 300 MB on root partition (for installation only) 	<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 Software Support (hp.com/go/hpsoftwaresupport)

Table 3-6. PPM Server requirements on SUSE platforms (page 2 of 5)

Operating System	Requirements	Additional Information
<p>When installed on an x86 VMware ESX Server 3.0.1, 3.0.2, 3.5.0, or 4.0.0 partition, or VMware ESXi Server 4.1 partition, one of the following:</p> <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 9 (both 32- and 64-bit) • SUSE Linux Enterprise Server 9, SPs1 through 4 (both 32- and 64-bit) • SUSE Linux Enterprise Server 10 (both 32- and 64-bit) • SUSE Linux Enterprise Server 10, SP1 (both 32- and 64-bit) 	<p>All of the following:</p> <ul style="list-style-type: none"> • x86 and compatible chip architectures (1.5 GHz) • 3 GB RAM • 600 MB disk space • 400 MB temp space • 300 MB on root partition (for installation only) 	<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 Software Support (hp.com/go/hpssoftwaresupport)
Platform (with Document Management solution)		
<p>The following:</p> <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 10 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 • 300 MB on root partition (for installation only) 	<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 50</i> for additional considerations. • To integrate with Documentum Enterprise Edition 6.5, DFC 6.5 is required on PPM Server. It is recommended to have the latest SP of DFC.

Table 3-6. PPM Server requirements on SUSE platforms (page 3 of 5)

Operating System	Requirements	Additional Information
JDK Software		
All SUSE Linux operating systems previously identified in this table	The following: <ul style="list-style-type: none"> • Java Platform Standard Edition 6 Development Kit (JDK) 1.6.0_07 (32-bit only) (available from Sun) 	
Secure Communications Software		
For: <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 9 (both 32- and 64-bit) • SUSE Linux Enterprise Server 9, SPs1 through 4 (both 32- and 64-bit) 	One of the following: <ul style="list-style-type: none"> • OpenSSH version 3.9p1 • OpenSSH version 4.3p1 • OpenSSH version 4.3p2 • OpenSSH version 4.4p1 • OpenSSH version 4.5p1 • OpenSSH version 4.6p1 • OpenSSH version 4.7p1 • OpenSSH version 4.9p1 	
For: <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 10 (both 32- and 64-bit) 	One of the following: <ul style="list-style-type: none"> • OpenSSH version 4.1p1 • OpenSSH version 4.3p1 • OpenSSH version 4.3p2 • OpenSSH version 4.4p1 • OpenSSH version 4.5p1 • OpenSSH version 4.6p1 • OpenSSH version 4.7p1 • OpenSSH version 4.9p1 	

Table 3-6. PPM Server requirements on SUSE platforms (page 4 of 5)

Operating System	Requirements	Additional Information
<p>For:</p> <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 10, Update 1 (both 32- and 64-bit) 	<p>One of the following:</p> <ul style="list-style-type: none"> • OpenSSH version 4.2p1 • OpenSSH version 4.3p1 • OpenSSH version 4.3p2 • OpenSSH version 4.4p1 • OpenSSH version 4.5p1 • OpenSSH version 4.6p1 • OpenSSH version 4.7p1 • OpenSSH version 4.9p1 	
Terminal Emulation Software		
<p>All SUSE Linux operating systems previously identified in this table</p>	<p>One of the following:</p> <ul style="list-style-type: none"> • “Dumb” mode • VT100 mode • VT220 mode 	

Table 3-6. PPM Server requirements on SUSE platforms (page 5 of 5)

Operating System	Requirements	Additional Information
Other Software		
All SUSE Linux operating systems previously identified in this table	<p>The following:</p> <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. • Oracle Java virtual machine (OracleJVM) must be enabled for PPM Center. For more information, see the <i>Installation and Administration Guide</i> or the <i>Upgrade Guide</i>.
All SUSE Linux operating systems previously identified in this table	<p>(Optional) The following:</p> <ul style="list-style-type: none"> • Email application configuration 	<p>If you are planning to use notifications, an email application is needed. See Email Server Requirements on page 51 for details.</p>
All SUSE Linux operating systems previously identified in this table	<p>The following:</p> <ul style="list-style-type: none"> • Bourne shell 	<p>The Bourne shell is available by default on most UNIX systems. However, in some environments, it might be not configured or enabled. Check with your UNIX system administrator to make sure that the Bourne shell is available and configured on your system.</p>

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 Software 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 Platforms

Microsoft Platforms

Table 3-7. PPM Center database requirements on Microsoft platforms (page 1 of 4)

Component	Requirements	Additional Information
Platform		
<p>One of the following:</p> <ul style="list-style-type: none">• Microsoft Windows Server 2003, Standard/Enterprise Edition (64-bit only)• Microsoft Windows Server 2003 R2, Standard/Enterprise Edition (64-bit only)• Microsoft Windows Server 2003 R2 SP2, Standard/Enterprise Edition (64-bit only)• Microsoft Windows Server 2008, Datacenter/Standard/Enterprise Edition (64-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• 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.

Table 3-7. PPM Center database requirements on Microsoft platforms (page 2 of 4)

Component	Requirements	Additional Information
Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-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.</p>

Table 3-7. PPM Center database requirements on Microsoft platforms (page 3 of 4)

Component	Requirements	Additional Information
Platform		
<p>One of the following:</p> <ul style="list-style-type: none"> • Microsoft Windows Server 2003, Standard/Enterprise Edition (32-bit only) • Microsoft Windows Server 2003 SP1, Standard/Enterprise Edition (32-bit only) • Microsoft Windows Server 2003 R2, Standard/Enterprise Edition (32-bit only) • Microsoft Windows Server 2003 R2 SP1, Standard/Enterprise Edition (32-bit only) • Microsoft Windows Server 2008, Datacenter/Standard/Enterprise Edition (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 • 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.

Table 3-7. PPM Center database requirements on Microsoft platforms (page 4 of 4)

Component	Requirements	Additional Information
Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-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.</p>

Sun Platforms

Table 3-8. PPM Center database requirements on Sun platforms

Component	Requirements	Additional Information
Platform		
<p>One of the following:</p> <ul style="list-style-type: none"> • Solaris 9, Patches 1 through 9 • Solaris 10, Patches 1 through 8 	<p>All of the following:</p> <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.
Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-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.</p>

HP Platforms

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

Component	Requirements	Additional Information
Platform		
One of the following: <ul style="list-style-type: none">• HP-UX 11i v2• HP-UX 11i v3	All of the following: <ul style="list-style-type: none">• PA-RISC (1 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.

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

Component	Requirements	Additional Information
Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) 	<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. 	<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.</p>
<ul style="list-style-type: none"> • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-RAC) 		

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

Component	Requirements	Additional Information
Platform		
<p>One of the following:</p> <ul style="list-style-type: none"> • HP-UX 11i v2 • HP-UX 11i v3 	<p>All of the following:</p> <ul style="list-style-type: none"> • Itanium 2 (1.4 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.
Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-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.</p>

IBM Platforms

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

Component	Requirements	Additional Information
Platform		
One of the following: <ul style="list-style-type: none">• IBM AIX 5L version 5.3	All of the following: <ul style="list-style-type: none">• POWER4/POWER5 (both 32- and 64-bit)• 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.

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

Component	Requirements	Additional Information
Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) 	<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. 	<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.</p>
<ul style="list-style-type: none"> • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-RAC) 		

Red Hat Platforms

Table 3-11. PPM Center database requirements on Red Hat platforms

Component	Requirements	Additional Information
Platform		
<p>One of the following:</p> <ul style="list-style-type: none"> • Red Hat Enterprise Linux AS 4.0, (both 32- and 64-bit) • Red Hat Enterprise Linux AS 4.0, Updates 1 through 6 (both 32- and 64-bit) • Red Hat Enterprise Linux AS 5.0 (both 32- and 64-bit) • Red Hat Enterprise Linux AS 5.0, Update 1 (both 32- and 64-bit) 	<p>All of the following:</p> <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.
Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-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.</p>

SUSE Platforms

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

Component	Requirements	Additional Information
Platform		
<p>One of the following:</p> <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 9 (both 32- and 64-bit) • SUSE Linux Enterprise Server 9, SPs1 through 4 (both 32- and 64-bit) • SUSE Linux Enterprise Server 10 (both 32- and 64-bit) • SUSE Linux Enterprise Server 10, SP1 (both 32- and 64-bit) 	<p>All of the following:</p> <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.

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

Component	Requirements	Additional Information
Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-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.</p>

Database Character Sets

Table 3-13 lists the database character sets supported for English-language deployments of this version 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

You should also specify:

- AL32UTF8 for NLS_CHARACTERSET
- AL16UTF16 for NLS_NCHAR_CHARACTERSET

Document Management Solution

Document Management Servers

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

- Version 6.5 of the Documentum Foundation Classes
- Version 6.5 of the Documentum Content Server
- Version 6.5 of the Documentum Index Server



For new Document Management deployments, HP recommends that you install the above version 6.5 Documentum components.



If you are using FAST index server as your Documentum index server, be sure to replace it with Xplore Index Server 1.1 before the support for FAST index server ends (December 31, 2011). For more details about environment and system requirements for Xplore Index Server 1.1, see *Environment and System Requirements for Xplore Index Server 1.1*.

The Document Management solution 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 12.

For More Information

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

Environment and System Requirements for Xplore Index Server 1.1

The environment and system requirements for xPlore include the following:

- Supported xPlore index server version:

- xPlore index server 1.1 on Documentum Content Server 6.5 SP2 or later



HP certified xPlore index server 1.1 on Documentum v6.5 SP2 for PPM Center 8.03.

- Supported platforms for xPlore Index Server 1.1:
 - Microsoft Windows Server 2008 SP2 (32-bit and 64-bit)
 - Microsoft Windows Server 2008 R2 (64-bit)
 - Red Hat Enterprise Linux Application Server 4.8 (IA-32)
 - Red Hat Enterprise Linux Application Server 5.5 (IA-32)
 - SUSE Linux Enterprise Server 10 SP3 (IA-32)
 - SUSE Linux Enterprise Server 11 SP1(IA-32)
- xPlore 1.1 Index Server may also be hosted on a VMware virtual machine.

For more information, see the *EMC Documentum xPlore version 1.1 Installation Guide*. The document is available in the Documentum plugin installation files zip package `PPMC_0010x.zip` (under the `/docs` directory) as well as on the Powerlink website (<http://powerlink.EMC.com>).

Table 3-14. Document Management server requirements on Microsoft platforms

Component	Requirements	Additional Information
Document Management Content Server Platform		
<p>One of the following:</p> <ul style="list-style-type: none"> • Microsoft Windows Server, 2003 SP2, Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server, 2003 R2 with SP2, Enterprise Edition (both 32- and 64-bit) • Microsoft Windows Server, 2008 (both 32- and 64-bit) 	<p>All of the following:</p> <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 	<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 73 for additional storage considerations.
Document Management Index Server Platform		
<p>One of the following:</p> <ul style="list-style-type: none"> • Microsoft Windows Server, 2003 R2 with SP2, Enterprise Edition (32-bit) • Microsoft Windows Server, 2003 SP2, Enterprise Edition (32-bit) 	<p>All of the following:</p> <ul style="list-style-type: none"> • x86 and compatible chip architectures (1.5 GHz)r • 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 73 for additional storage considerations.

Sun Platforms

Table 3-15. Document Management server requirements on Sun platforms

Component	Requirements	Additional Information
Document Management Content Server Platform		
The following: <ul style="list-style-type: none"> • Sun Solaris 10 	All of the following: <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 <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 73 for additional storage considerations.
Document Management Index Server Platform		
The following: <ul style="list-style-type: none"> • Sun Solaris 10 	All of the following: <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 <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 73 for additional storage considerations.

Table 3-16. Document Management server requirements on HP platforms

Component	Requirements	Additional Information
Document Management Content Server Platform		
For: <ul style="list-style-type: none"> • HP-UX 11i v2 Update 2 	One of the following processor options: <ul style="list-style-type: none"> • PA-RISC 2.0 (1 GHz) • Itanium 2 (1.4 GHz) Plus all of the following: <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 73 for additional storage considerations.
For: <ul style="list-style-type: none"> • HP-UX 11i v3 Update 1 	All of the following: <ul style="list-style-type: none"> • Itanium 2 (1.4 GHz) • 512 MB RAM • 700 MB disk space (for installation only in addition to the minimum requirements for the operating system) 	
Document Management Index Server Platform		
For: <ul style="list-style-type: none"> • HP-UX 11i v2 Update 2 	One of the following processor options: <ul style="list-style-type: none"> • PA-RISC 2.0 (1 GHz) • Itanium 2 (1.4 GHz) Plus all of the following: <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 73 for additional storage considerations.

Table 3-17. Document Management server requirements on IBM platforms

Component	Requirements	Additional Information
Document Management Content Server Platform		
One of the following: <ul style="list-style-type: none"> • IBM AIX 5L version 5.3 TL9 	All of the following: <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 <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 73 for additional storage considerations.
Document Management Index Server Platform		
The following: <ul style="list-style-type: none"> • IBM AIX 5L version 5.3 TL9 	All of the following: <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 <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 73 for additional storage considerations.

Table 3-18. Document Management server requirements on Red Hat platforms

Component	Requirements	Additional Information
Document Management Content Server Platform		
One of the following: <ul style="list-style-type: none"> Red Hat Enterprise Linux AS 4.0 Red Hat Enterprise Linux AS 5.0 	All of the following: <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 <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 73 for additional storage considerations.
Document Management Index Server Platform		
The following: <ul style="list-style-type: none"> 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 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 73 for additional storage considerations.



For information about Red Hat Enterprise Linux patch level support for Documentum, see your EMC Documentum product documentation or the Powerlink website (<http://powerlink.EMC.com>).

SUSE Platforms

Table 3-19. Document Management server requirements on SUSE platforms

Component	Requirements	Additional Information
Document Management Content Server Platform		
The following: <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 10 SP2 	All of the following: <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 <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 73 for additional storage considerations.
Document Management Index Server Platform		
The following: <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 10 SP2 	All of the following: <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 <i>Document Management Content Server and Index Server Sizing Recommendations</i> on page 73 for additional storage considerations.

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 86 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>One of the following:</p> <ul style="list-style-type: none">• Microsoft Windows Server, 2003 SP2, Enterprise Edition (both 32- and 64-bit)• Microsoft Windows Server, 2003 R2 with SP2, Enterprise Edition (both 32- and 64-bit)• Microsoft Windows Server, 2008 (both 32- and 64-bit)	<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 26 for details.• See Document Management Database Sizing Recommendations on page 86 for additional storage considerations.

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

Component	Requirements	Additional Information
Document Management Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-RAC) 	<ul style="list-style-type: none"> • Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<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 3-7 on page 52 for details.</p>

Sun Platforms

Table 3-21. Document Management database requirements on Sun platforms (page 1 of 2)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
One of the following: <ul style="list-style-type: none"> • Sun Solaris 10 	All of the following: <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 33 for details. • See Document Management Database Sizing Recommendations on page 86 for additional storage considerations.

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

Component	Requirements	Additional Information
Document Management Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-RAC) 	<ul style="list-style-type: none"> • Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<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 3-8 on page 56 for details.</p>

HP Platforms

Table 3-22. Document Management database requirements on HP platforms (page 1 of 2)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
The following: <ul style="list-style-type: none"> • HP-UX 11i v3 Update 1 	All of the following: <ul style="list-style-type: none"> • PA-RISC 2.0 (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 36 for details. • See Document Management Database Sizing Recommendations on page 86 for additional storage considerations.
For: <ul style="list-style-type: none"> • HP-UX 11i v2 Update 2 	One of the following processor options: <ul style="list-style-type: none"> • PA-RISC 2.0 (1 GHz) • Itanium 2 (1.4 GHz) Plus all of the following: <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 2 of 2)

Component	Requirements	Additional Information
Document Management Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-RAC) 	<ul style="list-style-type: none"> • Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<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 3-9 on page 57 for details.</p>

Table 3-23. Document Management database requirements on IBM platforms (page 1 of 2)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
One of the following: <ul style="list-style-type: none"> • IBM AIX 5L version 5.3 TL9 	All of the following: <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 39 for details. • See Document Management Database Sizing Recommendations on page 86 for additional storage considerations.

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

Component	Requirements	Additional Information
Document Management Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-RAC) 	<ul style="list-style-type: none"> • Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<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 3-10 on page 60 for details.</p>

Red Hat Platforms

Table 3-24. Document Management database requirements on Red Hat platforms (page 1 of 2)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
<p>One of the following:</p> <ul style="list-style-type: none"> • Red Hat Enterprise Linux AS 4.0 • Red Hat Enterprise Linux AS 5.0 	<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 42 for details. • See Document Management Database Sizing Recommendations on page 86 for additional storage considerations. <p>Note: For information about Red Hat Enterprise Linux patch level support for Documentum, see your EMC Documentum product documentation or the Powerlink website (http://powerlink.EMC.com).</p>

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

Component	Requirements	Additional Information
Document Management Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-RAC) 	<ul style="list-style-type: none"> • Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<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 3-11 on page 62 for details.</p>

SUSE Platforms

Table 3-25. Document Management database requirements on SUSE platforms (page 1 of 2)

Component	Requirements	Additional Information
Document Management Database Server Platforms		
<p>One of the following:</p> <ul style="list-style-type: none">• SUSE Linux Enterprise Server 10 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 46 for details.• See Document Management Database Sizing Recommendations on page 86 for additional storage considerations.

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

Component	Requirements	Additional Information
Document Management Database Software		
One of the following:		
<ul style="list-style-type: none"> • Oracle 10.2.0.4, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 10.2.0.5, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.6, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.1.0.7, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.1.0, Standard/Enterprise Edition (RAC and Non-RAC) • Oracle 11.2.0.2.0, Standard/Enterprise Edition (RAC and Non-RAC) 	<ul style="list-style-type: none"> • Oracle requirements unknown—check https://metalink.oracle.com for any necessary patches or configuration changes. 	<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 3-12 on page 63 for details.</p>

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 73* 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 73* 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 74](#) 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:

$$(5 \text{ KB}) \times (4 \text{ versions}) \times (100,000 \text{ documents}) = 2 \text{ GB}$$

Documentum Integration

In addition to HP version of EMC Documentum Content Server Enterprise Edition (EE) software bundled with PPM Center, you can also integrate PPM Center with a stand-alone instance of EMC Documentum Enterprise Edition.

Preparing to Integrate PPM Center with a Stand-Alone Instance of EMC Documentum Enterprise Edition

If your organization already has a stand-alone instance of EMC Documentum Content Server EE (version 6.5) installed, you can integrate PPM Center with that instance to implement HP document management. To do this, you must first purchase and download the HP PPM Center Documentum Connector software.

DFC Supported PPM Server Platforms

The integration with Documentum requires installation of DFC on PPM server. DFC is supported on the following PPM server platforms:

- Microsoft Platforms
 - Microsoft Windows Server 2003 R2 with SP2 (32-bit)
 - Microsoft Windows Server 2003 SP2 (32-bit)
 - Microsoft Windows Server 2008 (32-bit)
- Sun Platform
 - Solaris 10
- Red Hat Platform
 - Red Hat Enterprise Linux 4.7
- SUSE Platforms
 - SUSE Linux Enterprise Desktop 10 SP2

For more information, see the Powerlink website (<http://powerlink.EMC.com>).

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 3)

Operating System	Requirements
Microsoft Platforms	
For: <ul style="list-style-type: none">● Microsoft Windows Server 2003 (both 32- and 64-bit)● Microsoft Windows Server 2003 SP1 (both 32- and 64-bit)● Microsoft Windows Server 2003 R2 (both 32- and 64-bit)● Microsoft Windows Server 2003 R2 SPs 1 through 2 (both 32- and 64-bit)	One of the following: <ul style="list-style-type: none">● Microsoft IIS 6.0 (both 32- and 64-bit)● Apache HTTP 2.0 (32-bit only)● Apache HTTP 2.2 (32-bit only)

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

Operating System	Requirements
For: <ul style="list-style-type: none"> • Microsoft Windows Server 2008 (32-bit only) 	The following: <ul style="list-style-type: none"> • Microsoft IIS 7.0 (32-bit only)
Sun Platforms	
For: <ul style="list-style-type: none"> • Sun Solaris 9, Updates 1 through 9 (PA-RISC/Itanium) • Sun Solaris 10, Updates 1 through 8 (PA-RISC/Itanium) 	One of the following: <ul style="list-style-type: none"> • Sun Java System Web Server 6.1 (GA and Updates 1 through 9) (64-bit only) • Apache HTTP Server 2.0 (version 2.0.48 or later) (64-bit only)
HP Platforms	
For: <ul style="list-style-type: none"> • HP-UX 11i v1 	The following: <ul style="list-style-type: none"> • Apache-based Web Server version 2.0.54 (available from HP)
For: <ul style="list-style-type: none"> • HP-UX 11i v2 • HP-UX 11i v3 	One of the following: <ul style="list-style-type: none"> • Apache HTTP Server 2.0 (versions 2.0.48 through 2.0.63) (both 32- and 64-bit) • Apache HTTP Server 2.2 (versions 2.2.0 through 2.2.8) (32-bit only on 64-bit HP-UX)
IBM Platforms	
For: <ul style="list-style-type: none"> • IBM AIX 5L version 5.3 	The following: <ul style="list-style-type: none"> • IBM HTTP Server (IHS) version 6.1.0 (32-bit only) (available from IBM)

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

Operating System	Requirements
Red Hat Platforms	
<p>For:</p> <ul style="list-style-type: none"> • Red Hat Enterprise Linux AS 4.0, (both 32- and 64-bit) • Red Hat Enterprise Linux AS 4.0, Updates 1 through 6 (both 32- and 64-bit) • Red Hat Enterprise Linux AS 5.0 (both 32- and 64-bit) • Red Hat Enterprise Linux AS 5.0, Update 1 (both 32- and 64-bit) 	<p>One of the following:</p> <ul style="list-style-type: none"> • Apache HTTP Server 2.0 (version 2.0.50 through 2.0.63) (both 32- and 64-bit) • Apache HTTP Server 2.2 (version 2.2.0 through 2.2.8) (both 32- and 64-bit)
SUSE Platforms	
<p>For:</p> <ul style="list-style-type: none"> • SUSE Linux Enterprise Server 9 (both 32- and 64-bit) • SUSE Linux Enterprise Server 9, SPs 1 through 4 (both 32- and 64-bit) • SUSE Linux Enterprise Server 10 and SP1 (both 32- and 64-bit) 	<p>The following:</p> <ul style="list-style-type: none"> • Apache HTTP Server 2.0 (version 2.0.50 through 2.0.63) (both 32- and 64-bit) • Apache HTTP Server 2.2 (version 2.2.0 through 2.2.8) (both 32- and 64-bit)

4 HP Migrator and Extension Products and Environments

Overview of HP Migrator and Extension Support

The system requirements provided in the following sections are in addition to the requirements for this version of PPM Center.

These supplemental products are available in English language only.

Migrators

Application Requirements

Various versions of PPM Center support particular combinations of Object Migrator, GL Migrator, and the following Oracle E-Business Suite Releases:

- 11i (11.5.7 through 11.5.10.2 (CU2))
- Release 12 (12.0.0 through 12.1.3)



Oracle no longer supports Oracle E-Business Suite Release 11 or Releases 11.5.1 through 11.5.6 (which are early releases of 11i), so HP no longer supports use of PPM Center Extensions, GL Migrator, or Object Migrator with those releases.

Each unshaded cell in *Table 4-1* lists the versions of PPM Center that support the combination of Oracle E-Business Suite release (in a table row) and a migrator (in a table column). Combinations that are *not* supported on any version of PPM Center are shown in the lightly shaded table cells. In a cell, “8.0x” represents PPM Center version 8.00 with or without any of its service packs.

Table 4-1. PPM Center versions supported with Oracle E-Business Suite Releases and HP Migrator versions supported for HP Deployment Management Extension for Oracle E-Business Suite (page 1 of 2)

Oracle E-Business Suite Release	Kintana Object* Migrator Version 5.1	Mercury Object Migrator Version 6.0	HP Object Migrator Version 7.5	Mercury GL Migrator Version 6.0	HP GL Migrator Version 9.12
11.5.7 Application Object Library: FND.E Applications DBA: AD.F Common Modules: AK.D Financials Suite: Family Pack A	7.5, 8.0x	7.5, 8.0x	7.5, 8.0x	7.5, 8.0x	8.0x
11.5.8 Application Object Library: FND.F Applications DBA: AD.G Common Modules: AK.E Financials Suite: Family Pack C	7.5, 8.0x	7.5, 8.0x	7.5, 8.0x	7.5, 8.0x	8.0x
11.5.9 ^a Application Object Library: FND.G Applications DBA: AD.H Common Modules: AK.F Financials Suite: Family Pack D	7.5, 8.0x	7.5, 8.0x	7.5, 8.0x	7.5, 8.0x	8.0x
11.5.10 with FND.H Mini Pack ^{b, c} Application Object Library: FND.H Applications DBA:AD.I Common Modules: AK.G Financials Suite: Family Pack F		7.5, 8.0x	7.5, 8.0x	7.5, 8.0x	8.0x
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		7.5, 8.0x	7.5, 8.0x	7.5, 8.0x	8.0x

Table 4-1. PPM Center versions supported with Oracle E-Business Suite Releases and HP Migrator versions supported for HP Deployment Management Extension for Oracle E-Business Suite
(page 2 of 2)

Oracle E-Business Suite Release	Kintana Object* Migrator Version 5.1	Mercury Object Migrator Version 6.0	HP Object Migrator Version 7.5	Mercury GL Migrator Version 6.0	HP GL Migrator Version 9.12
12.0.0 through 12.1.3 ^e Applications Technology: R12.ATG_Pf.A through R12.ATG_Pf.B.DELTA.3 Applications DBA: R12.AD.A through R12.AD.B.DELTA.3			7.5, 8.0x		8.0x ^f Important: See footnote f.

- 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 Object Migrator).
11.5.8-11.5.9 with the Financials Family Pack F is functionally equivalent to 11.5.10 (for GL Migrator).
- c. Support for the Oracle Applications E-Business Suite version 11.5.10 with the 10G database version requires installation of patch 154770. See the HP Object Migrator Version 6.0 Database version 10G Compatibility Patch (#154770) readme for details.
- d. See the HP Object Migrator Oracle Apps Version 11.5.10.2 Compatibility Patch (#174141) readme for details.
- e. HP Object Migrator version 7.5 requires patch PPMC_00090 in order to work with Oracle E-Business Suite Release 12.1.2 or later.
- f. Using PPM Center version 8.0x with Oracle Release 12.1.3 (or later) and HP GL Migrator version 9.12 requires patch PPMC_00097 for HP Deployment Management Extension for Oracle E-Business Suite version 8.00.

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 <i>Archive Tables</i> .	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

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

- 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
 - Common Modules: AK.G
 - Financials Suite: Family Pack F
- Release 12.0.0–12.1.3
 - Applications Technology:
R12.ATG_PF.A through R12.ATG_PF.B.DELTA.3
 - Applications DBA:
R12.A through R12.AD.B.DELTA.3

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 (for Object Migrator).

11.5.8-11.5.9 with the Financials Family Pack F is functionally equivalent to 11.5.10 (for GL Migrator).



HP Deployment Management Extension for Oracle Technology

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

- Versions of Oracle tools that support Oracle database 9i, 10g, 11, or 12
- Oracle Developer 2000, Developer 6i, or Developer 10g

HP Deployment Management Extension for SAP Solutions

This version of PPM Center 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 Using PPM Center with HP Software and Other Software

Application Lifecycle Management (ALM)

ALM supports integration of PPM Center with the following applications at the following versions:

- Service desk applications
 - Service Manager 7.01
 - Service Manager 7.10
 - Service Manager 7.11
 - Service Manager 9.20



HP supports integrating one PPM Center instance with multiple Service Manager instances at the same version.

- HP Universal CMDB
 - 7.50
 - 8.00
 - 8.01 and 8.02
 - 8.06 (for attaching Universal CMDB Impact Analysis Report to a request in PDF format)
 - 9.00

- HP Quality Center
 - 9.2 patch 4 or later
 - 10.00 (Only projects that are not version controlled are supported.)



PPM Center-Quality Center Integration Tool version 1.6.<xxxx> is required to integrate PPM Center with Quality Center. The integration tool is provided with PPM Center software.

- HP Release Control and HP Change Control Management
 - HP Change Control Management version 3.0
 - Its successor product, HP Release Control version 4.00

HP Center Management for Quality Center

The requirements for HP Center Management for Quality Center include the following:

- PPM Center version 8.00 with the following exceptions:
 - The PPM Server must be deployed on Microsoft Windows platforms only.
VMware deployments are supported.
 - Best Practices content must be installed on PPM Center.
 - If the Quality Center database uses Microsoft SQL Server, Oracle Windows interfaces must be installed (for example, Oracle Provider for OLE DB or Oracle ODBC).
 - Only Microsoft Internet Explorer 6.0, 7.0, or 8.0 can be used.
- HP Quality Center version 9.0, 9.2, or 10.00

If you are using PPM Center to manage multiple Quality Center instances, all of the Quality Center instances must be at the same version and patch level.

6 Desupported Platforms and Products

Platforms and Products Desupported in This Version

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

This information is relevant to customers upgrading to this version from version 7.5. 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 7.5, incremental upgrades are necessary (for example: version 6.0 to 7.1, followed by 7.1 to 7.5, and finally 7.5 to 8.00). 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.

Platforms

The following platforms are no longer supported:

- Microsoft Windows Server 2003 SP1, Enterprise Edition (64-bit)

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 23](#) are supported in this version.

- All Oracle versions 9.2.0.8 and earlier
- Oracle versions 10 through 10.1.0.6
- Oracle versions 10.2.0.1, 10.2.0.2, and 10.2.0.3

JDK/SDK Software

The following Java Develop Kit version is no longer supported:

- 1.5.x

Web Servers

The following Web servers are no longer supported on the specified platforms:

- Sun Java System Web Server 5 on Solaris platforms
- IBM HTTP Server (IHS) version 2.0.47.1 for AIX platforms

SSH Software

The following versions of secure shell software are no longer supported on the specified platforms:

- OpenSSH version 4.2 and 4.3p2 for Microsoft platforms
- OpenSSH version 4.1p1 and 4.3p2 for Sun platforms
- OpenSSH version 4.1p1 for HP platforms
- OpenSSH version 4.1p1 on Red Hat AS4 platforms
- OpenSSH version 4.3p1 on Red Hat AS5 platforms
- OpenSSH version 4.1p1 for SUSE 9 platforms

Other Products

The following products are no longer supported:

- Kintana GL*Migrator version 2.0
- For use with HP Deployment Management Extension for Oracle E-Business Suite, with any version of Object Migrator, or with any version of GL Migrator, the following Oracle E-Business Suite releases, which Oracle no longer supports:
 - Release 11
 - Releases 11.5.1 through 11.5.6 (which are early releases of 11i)

Client Environment

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

Platforms

The following platform is no longer supported:

- Microsoft Windows XP Professional SP2 (64-bit)

Java Plug-In Requirements

The following plug-in is no longer supported:

- 1.5.0_02 (5.0 update 2) or later

Optional Products

The following third-party software is not supported:

- Microsoft Project 2002 Standard Edition
- Microsoft Project 2002 Professional Edition
- Microsoft Excel 2002 Standard Edition

