HP Operations Orchestration Software

Software Version: 7.50

System Requirements

Document Release Date: March 2009 Software Release Date: March 2009



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Documentation enhancements are a continual project at Hewlett-Packard Software. You can obtain or update the HP OO documentation set and tutorials at any time from the HP Software Product Manuals web site. You will need an HP Passport to log in to the web site.

To obtain HP OO documentation and tutorials

- 1. Go to the HP Software Product Manuals web site (http://support.openview.hp.com/selfsolve/manuals).
- 2. Log in with your HP Passport user name and password.

OR

If you do not have an HP Passport, click **New users – please register** to create an HP Passport, then return to this page and log in.

If you need help getting an HP Passport, see your HP OO contact.

- 3. In the **Product** list box, scroll down to and select **Operations Orchestration**.
- 4. In the **Product Version** list, click the version of the manuals that you're interested in.
- 5. In the **Operating System** list, click the relevant operating system.
- 6. Click the Search button.
- 7. In the **Results** list, click the link for the file that you want.

Where to Find Help, Tutorials, and More

The HP Operations Orchestration software (HP OO) documentation set is made up of the following:

Help for Central

Central Help provides information to the following:

- Finding and running flows
- For HP OO administrators, configuring the functioning of HP OO
- Generating and viewing the information available from the outcomes of flow runs

The Central Help system is also available as a PDF document in the HP OO home directory, in the \Central\docs subdirectory.

Help for Studio

Studio Help instructs flow authors at varying levels of programming ability.

The Studio Help system is also available as a PDF document in the HP OO home directory, in the \Studio\docs subdirectory.

Animated tutorials for Central and Studio

HP OO tutorials can each be completed in less than half an hour and provide basic instruction on the following:

- In Central, finding, running, and viewing information from flows
- In Studio, modifying flows

The tutorials are available in the Central and Studio subdirectories of the HP OO home directory.

Self-documentation for operations and flows in the Accelerator Packs and ITIL folders

Self-documentation is available in the descriptions of the operations and steps that are included in the flows.

Support

For support information, including patches, troubleshooting aids, support contract management, product manuals and more, visit the following site:

• http://support.openview.hp.com

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System Requirements

Following are the minimum hardware and software requirements for servers and clients running Hewlett-Packard Software Operations Orchestration (HP OO).

Support for 64-bit architecture is available on Windows/Linux configurations for the Central, Studio, Scheduler, JRAS, and cluster components of HP OO.

HP OO Central and database server(s)

The hard-drive space requirements differ depending on whether you install the database and Central on the same machine.

Hardware

For 64-bit Windows systems, OO supports the AMD64 and Intel64 servers.

Component	Requirement per server
СРИ	3 Gigahertz
Memory (RAM)	3 Gigabyte (GB)
Hard-drive space	Database server: As described in your database system requirements
	HP OO Central server: 4 GB (This includes room for the flows and operations that are included in the installation and for their rolling backups.)
	When the database and Central are installed on the same machine, sum the requirements for the database and the Central servers.
	Add 100KB for each flow that you have created and its rolling backups.
	Add 10.2MB if you install HP OO Load Balancer.

The following software requirements are broken out into those for Windows systems and those for Linux systems.

Note: If the Central server and database server are on different physical server:

- A Central server that is installed on a Linux operating system can now use a SQL Server database.
- A Central server that is installed on a Windows operating system can now use an Oracle database. If the Oracle database is resides on an Oracle RAC, incorporate the Guide to Installing HP OO with RAC (InstallingHPOO_RACGuide.pdf) into your HP OO installation planning and procedures.

Software for Windows systems

Component	Requirement	
Operating system	Microsoft Windows 2003 Server (Standard, Enterprise, or Datacenter edition) Service Pack (SP) 2, 32-bit or 64-bit, with the August 2008 cumulative time zone update for Microsoft Windows operating systems applied. For information on applying the time zone update, see support.microsoft.com, Knowledge Base article 951072.	
Runtime environments	Microsoft .NET Framework 2.0 Service Pack 1 (SP1) and 3.0, with ASP.NET enabled	
	Important: If you have .NET Framework 3.0 installed, you must also install .NET Framework 2.0 SP 1, side by side with version 3.0.	
Database management system	One of the following:	
	Microsoft SQL Server 2000 Service Pack 3a or later, or SQL Server 2005 SP 2.	
	 Oracle 10g Standard R2 or Oracle 10g Enterprise R2 Sun Microsystems MySQL 5.0.41 or 5.1.30. 	
Web browser s	 Microsoft Internet Explorer 6.x or 7.x FireFox 1.5, 2.x, or 3.x 	
Scriptlet language support	If you run a flow that contains a Perl scriptlet operation, ActivePerl 5.8.8.824 is required. When installing ActivePerl, select the option to add its path to the PATH environmental variable.	

Software for Linux systems

Component	Requirement	
Operating system	On 32-bit server: Red Hat Enterprise Linux 4.x or 5.x On 64-bit server: Red Hat Enterprise Linux AS 4.x or 5.x for 86-64 architecture	
Runtime environments	Java Runtime Environment version 1.6 (listed as 6.0 on the Sun Web site)	
Database management system	 Oracle 10g Standard R2 or Oracle 10g Enterprise R2 MySQL 5.0.41 or 5.1.30 SQL Server 2000 Service Pack 3a or later SQL Server 2005 SP 2 	
Web browser	Firefox 1.5, 2.x, or 3.x	
Scriptlet language support	If you run a flow that contains a Perl scriptlet operation, Perl 5.8.8.824 is required. If you did not install Perl when installing the operating system, make sure that the path to Perl is included in the PATH environmental variable.	
RAS support for Windows systems	Standalone RAS installed on a Windows system (see the section below, HP OO remote action services installed separately from Central).	

HP OO Remote Action Services installed separately from Central

Installations of the Remote Action Service (RAS) for the Central Web application do not have additional hardware requirements for the Web server. The software requirements for computers on which RAS is installed are as follows:

Important! Although RAS supports both Java- and .NET-based operations, Linux operating systems do not support .NET operations. Therefore, RAS installed on a Linux operating system cannot support .NET operations. (RAS installed on a Windows operating system supports both Java- and .NET-based operations.)

Hardware for standalone RAS installations

For 64-bit Windows systems, OO supports the AMD64 and Intel64 servers.

Software for standalone RAS installations

Component	Requirement
Operating system, on	One of the following:
32-bit server	 Red Hat Enterprise Linux 4.x or 5.x Important! When installed on a Linux operating system, RAS cannot support .NET-based operations.
	 Windows 2003 Standard, Enterprise, or Datacenter edition SP 2, 32-bit, with the August 2008 cumulative time zone update for Microsoft Windows operating systems applied. For information on applying the time zone update, see support.microsoft.com, Knowledge Base article 951072.
	Windows XP SP 2
	Windows Vista Enterprise Edition
	 Solaris 10.x (SunOS 5.10). If using Solaris 10.x, the server can be a 32-bit SPARC server or a 32-bit x86 server.
Operating system, on	Red Hat Enterprise Linux AS 4.x or 5.x for 86-64 architecture
64-bit server	OR
	Windows 2003 Standard, Enterprise, or Datacenter edition, 64-bit, with the August 2008 cumulative time zone update for Microsoft Windows operating systems applied. For information on applying the time zone update, see support.microsoft.com, Knowledge Base article 951072.
Runtime environments	Microsoft .NET Framework 2.0 Service Pack 1 (SP1) and 3.0, with ASP.NET enabled
	Important: If you have .NET Framework 3.0 installed, you must also install .NET Framework 2.0 SP1, side by side with version 3.0.

Central client

Hardware for the Central client

For 64-bit Windows systems, OO supports the AMD64 and Intel64 servers.

Web client machines for Central and machines on which you install Studio must meet the hardware requirements for their Web browser.

Software

Web Browser	Required operating system
Microsoft Internet Explorer 6.x or 7.x, 32-bit or 64-bit	One of the following:
	 Microsoft Windows XP Professional Edition, Service Pack 2 or higher, 32-bit or 64-bit.
	Windows 2003 Standard, Enterprise, or Datacenter edition, 32-bit or 64-bit.
	Windows Vista Enterprise, 32-bit or 64-bit.
	For all of these operating systems, you must apply the August 2008 cumulative time zone update for Microsoft Windows operating systems . For information on applying the time zone update, see support.microsoft.com, Knowledge Base article 951072.
Firefox 1.5, 2.x, or	One of the following:
3.x	 Microsoft Windows XP Professional Edition, Service Pack 2 or higher, 32-bit or 64-bit, with the August 2008 cumulative time zone update for Microsoft Windows operating systems applied. For information on applying the time zone update, see support.microsoft.com, Knowledge Base article 951072.
	Windows 2003 Standard, Enterprise, or Datacenter edition, 32-bit or 64-bit, with the August 2008 cumulative time zone update for Microsoft Windows operating systems applied. For information on applying the time zone update, see support.microsoft.com, Knowledge Base article 951072.
	 Windows Vista, 32-bit or 64-bit, with the August 2008 cumulative time zone update for Microsoft Windows operating systems applied. For information on applying the time zone update, see support.microsoft.com, Knowledge Base article 951072. Red Hat Enterprise Linux 4.x or 5.x, 32-bit or 64-bit

Note: If you run the Central client on a Linux operating system, the Web browser must be Firefox. Using Microsoft Internet Explorer for the Central client's Web browser is not supported on a Linux operating system.

Other software requirements:

• To play the tutorial flash animations, Macromedia Flash Player 8.0

HP OO Studio installed on its own machine

Hardware

Component	Requirement	
CPU	2 Gigahertz (GB)	
Memory (RAM)	2 GB (This is the amount of memory that the Studio process requires.)	
Hard-drive space	2 GB (This includes room for the flows and operations that are included in the installation.) Add 100KB for each flow that you have created.	

Software

Component	Requirement
Operating system	 One of the following: Microsoft Windows XP Professional Edition, Service Pack (SP) 2, 32-bit or 64-bit Windows 2003 Server SP 2, 32-bit or 64-bit, Standard, Enterprise, or Datacenter edition Vista Enterprise edition, 32-bit or 64-bit For all of these operating systems, you must apply the August 2008 cumulative time zone update for Microsoft Windows operating systems. For information on applying the time zone update, see support.microsoft.com, Knowledge Base article 951072.
Flash animation player for tutorials	Macromedia Flash Player 8.0
Scriptlet language support	If you run a flow that contains a Perl scriptlet operation, ActivePerl 5.8.8.824 is required.

Virtual systems

Installation of the OO components on guest systems hosted by the following hypervisors is supported, as long as the guest systems meet the requirements described in this System Requirements document:

• VMWare ESX Server, version 3.0, 3.2, 3.5, or 3i

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