



System Requirements for Opsware™ Process Automation System Version 7.0

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Updating documentation

Documentation enhancements are a continual project at Opsware. You can update the documentation set at any time using the following procedure (which is also available in the PAS readme file).

To obtain PAS documentation

1. On The Opsware Network Web site (<https://support1.opsware.com/support/index.php>), log in with the Opsware Network account name and password that you received when you purchased PAS.
2. On the **Support** tab, click the **Product Docs** subtab.
3. Under **Quick Jump**, click **Process Automation System**.
4. Under **Process Automation System**, click **ZIP** beside **PAS 7.0 Full Documentation Set**.
5. Extract the files in the .zip file to the appropriate locations on your system:

- For the tutorials to run, you must store the .swf file and the .html file in the same directory.
- To obtain the repository that reflects the state of the flow at the start of the tutorial, unzip the file Exportof<preceding_tutorial_name>.zip.
- To obtain the scriptlet for the tutorial that includes using scriptlets, click the scriptlet .txt file name.
- To update your Central or Studio Help:
 - a. Under **Help Files**, and then click **Studio Help File Bundle** or **Central Help File Bundle**.
 - b. In the **File Download** box appears, click either **Open** or **Save**.
 - c. Extract the files to the Opsware\PAS home directory, in either the **\Central\docs\help\Central** or **\Studio\docs\help\Studio** subdirectory, overwriting the existing file.

System Requirements

Following are the minimum hardware and software requirements for servers and clients running Opsware Process Automation System (PAS).

Support for 64-bit architecture is available on Linux/Oracle configurations for the Central, Scheduler, and JRAS components of PAS.

PAS 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

Component	Requirement per server
CPU	2 Gigahertz
Memory (RAM)	2 Gigabyte (GB)
Hard-drive space	<p>Database server: As described in your database system requirements</p> <p>PAS Central server: 1.3 GB</p> <p>When the database and Central are installed on the same machine, sum the requirements for the database and the Central servers.</p>

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

Software for Windows systems

Component	Requirement
Operating system	Microsoft Windows 2003 Server (Standard, Enterprise, or Datacenter edition), 32-bit
Runtime environments	Microsoft .NET Framework 2.0 or 3.0, with ASP.NET enabled Important: If you have .NET Framework 3.0 installed, you must also install .NET Framework 2.0, side by side with version 3.0. Java Runtime Environment version 1.6 (listed as 6.0 on the Sun Web site)
Database management system	SQL Server 2000 Service Pack 3a or later OR SQL Server 2005 OR MySQL 5.0.x (including the MySQL driver file Mysql-connector-java-<versionnumber>.jar)
Web browser	Microsoft Internet Explorer 6.0 or later OR FireFox 1.5 or later

Software for Linux systems

Component	Requirement
Operating system	On 32-bit server: Red Hat Enterprise Linux 3.x or 4.x On 64-bit server: Red Hat Enterprise Linux AS 4.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 Enterprise (10.2.0.2.0) OR MySQL 5.0.x (including the MySQL driver file <code>mysql-connector-java-<versionnumber>.jar</code>)
Web browser	Microsoft Internet Explorer 6.0 or later OR FireFox 1.5 or later
PAS Load Balancer	On each machine on which PAS Load Balancer is installed: <code>libcom_err.so.3</code> (available in most Linux distributions)

PAS remote action services installed remotely from Central

Remote action services for the Central Web application do not have additional hardware requirements for the Web server. The software requirements for computers on which the remote action services are installed are as follows:

- .NET Remote Action Service (NRAS) can only run on Windows systems and requires Microsoft .NET Framework 2.0 or 3.0, with ASP.NET enabled
Important: If you have .NET Framework 3.0 installed, you must also install .NET Framework 2.0, side by side with version 3.0.
- Java Remote Action Service (JRAS) can run on either Windows or Linux systems and requires Java Runtime Environment version 1.6 (listed as 6.0 on the Sun Web site)

Central client

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

Software

Component	Requirement
Operating system	Microsoft Windows XP Professional Edition, Service Pack 2 or higher, 32-bit OR Windows 2003 Standard, Enterprise, or Datacenter edition), 32-bit OR Red Hat Linux 3.x or later, 32-bit
Web browser	Microsoft Internet Explorer 6.0 or later OR FireFox 1.5 or later

PAS Studio installed on its own machine

Hardware

Component	Requirement
CPU	700 Megahertz
Memory (RAM)	512 MB
Hard-drive space	200 MB

Software

Component	Requirement
Operating system	Microsoft Windows XP Professional Edition, Service Pack 2 or higher, 32-bit OR Windows 2003 Server, 32-bit
Web browser	Microsoft Internet Explorer 6.0 or later OR FireFox 1.5 or later
Flash animation player for tutorials	Macromedia Flash Player 8.0