# **HP Closed Loop Incident Process (CLIP) Solution System Requirements Readme**

for the Windows operating system

Software version: 9.10

**Publication date: October 2011** 

This file provides information about the HP Closed Loop Incident Process (CLIP) Solution version 9.10 system requirements.

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- HP Business Service Management (BSM) System Requirements
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# **Documentation Updates**

The first page of this document contains the following identifying information:

- Version number, which indicates the software version.
- Publish date, which changes each time the document is updated.

To check for recent updates or to verify that you are using the most recent edition, visit this URL: HP Software Product Manuals.

To retrieve a document, select the:

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# **Enterprise Hardware and Software Requirements HP Universal CMDB (UCMDB) Requirements**

#### Recommendations

## **Operating System**

For 64-bit Windows systems, one of the following:

- Windows 2003 Enterprise SP2 and R2 SP2
- Windows 2008 Enterprise SP2 and R2 (recommended)
- Red hat Linux 5 Enterprise/Advanced

To fulfill the CPU requirements, one of the following:

- Intel Dual Core Xeon Processor 2.4 GHz or higher
- AMD Opteron Dual Core Processor 2.4 GHz or higher

The following number of CPU Cores, depending on your deployment configuration:

- Small deployment: 1 CPU
- Standard deployment: 4 CPU
- Enterprise deployment: 8 CPUs

**Note:** As HP Universal CMDB performance is dependent upon processor speed, to ensure proper HP Universal CMDB performance, it is recommended that you use the fastest possible processor speed.

## **Memory: Windows**

One of the following:

- Small deployment: 4 GB RAM
- Standard deployment: 8 GB RAM
- Enterprise deployment: 16 GB RAM

## Virtual Memory/Memory Swap File: Windows

One of the following:

- Small deployment: 6 GB (Supported)
- Standard deployment: 12 GB
- Enterprise deployment: 24 GB

**Note:**. The virtual memory for Windows should be at least 1.5 times the physical memory size.

## **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.

#### Flash AnimationSupport

Adobe Flash Player version 10.0

# **HP Service Manager (SM) Requirements**

#### Recommendations

#### Service Manager Server

X86-64 Server

# **Operating Systems:**

- Windows 2008+
- Red Hat Enterprise Linux 5.4+

For more supported platforms, refer to the product compatibility guide.

#### **RDBMS**

- Oracle 11.1
- Oracle 11.2

For more details about supported RDBMS, refer to the product compatibility guide.

## **Service Manager Client**

## **Operating Systems:**

- Windows XP
- Windows Vista
- Windows 7

## Service Manager Web Tier

X86-64 Server

## **Operating Systems:**

- Windows 2008+
- Red Hat Enterprise Linux 5.4+

#### **Application Server:**

- Apache Tomcat 5.5.33
- Apache Tomcat 6.0

#### Web Server:

• Apache Web Server 2.2

For more details about supported Web and Application Servers, refer to the product compatibility guide.

# **HP Business Service Management (BSM) Requirements**

#### Recommendations

# **Operating System**

- Windows 2008 Server/Enterprise SP2 (64bit)
- Windows 2008 Server/Enterprise R2 (64bit)
- Windows 2003 Server/Enterprise SP2 (64bit)
- Windows 2003 Server/Enterprise R2 (64bit)

To fulfill the CPU requirements, one of the following:

- Intel Dual Core Xeon Processor 2.4 GHz or higher
- AMD Opteron Dual Core Processor 2.4 GHz or higher

**Note:** As Business Service Management performance is dependent upon processor speed, it is recommended to get the fastest possible processor speed to ensure proper performance.

#### Web Server

- Microsoft Internet Information Server (IIS) 7.0, 7.5
- Microsoft Internet Information Server (IIS) 6.0
- Apache HTTP Server 2.2.11 (adapted by HP for HP Business Service Management and installed during HP Business Service Management server installation).

#### **Hardware Requirements**

• Standard: 1 dual core

Minimum: 2G RAM

Recommended: 4G RAM

• Large: Minimum 2 dual core or 1 quad core

Minimum: 4G RAM

Recommended: 8G RAM

# **Memory and CPU Requirements**

APM Basic

Server Type: One machine

■ Memory: Recommended 6 GB/ minimum 4 GB

■ CPU: 4

■ Virtual Memory/Swap Space: 6 GB

APM Advanced

Server Type: Gateway

■ Memory: Recommended 7 GB

■ CPU: 8

Virtual Memory/Swap Space: 8 GB

AND

Server Type: Data Processing

Memory: Recommended 15 GB

■ CPU: 8

Virtual Memory/Swap Space: 8 GB

OPS Basic

Server Type: One machine

Memory: Recommended 7 GB

■ CPU: 4

Virtual Memory/Swap Space: 6 GB

OPS Advanced

Server Type: Gateway

■ Memory: Recommended 9 GB

■ CPU: 4

Virtual Memory/Swap Space: 6 GB

AND

Server Type: Data Processing

Memory: Recommended 19 GB

■ CPU: 8

Virtual Memory/Swap Space: 8 GB

Full BSM

Server Type: Gateway

Memory: Recommended 9 GB

■ CPU: 8

■ Virtual Memory/Swap Space: 8 GB

AND

Server Type: Data Processing

■ Memory: Recommended 19 GB

■ CPU: 8

Virtual Memory/Swap Space: 8 GB

# **Display**

Minimum: color palette setting of at least 256 colors

Recommended: color palette setting of 32,000 colors

#### Resolution

- 1280x1024 or higher (recommended)
- 1024x768
- 1280x800

## **Supported Browsers**

- Microsoft Internet Explorer (IE) 8.0
- Microsoft Internet Explorer (IE) 7.0

Note: The browser must be set to accept all cookies.

## Flash Player

• Adobe Flash 10.0 or later

# Software Requirements - Microsoft SQL Server

- Microsoft SQL Server 2008, Enterprise Edition, 32 bit Service Pack 1
- Microsoft SQL Server 2008, Enterprise Edition, 64 bit Service Pack 1
- Microsoft SQL Server 2005, Enterprise Edition, 32 bit Service Pack 3
- Microsoft SQL Server 2005, Enterprise Edition, 64 bit Service Pack 3

# **HP Operations Orchestration (OO) Requirements**

Recommendations	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.

- **CPU:** 3 Gigahertz (GHz) for single-processor systems or 2 GHz for multi-processor systems
- 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.

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

- 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**

## **Operating System**

One of the following:

- Microsoft Windows 2003 Server (Standard, Enterprise, or Datacenter edition) Service Pack (SP) 2, 32-bit or 64-bit, with the December 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 955839.
- Microsoft Windows 2008 R2, Server (Standard, Enterprise, or Datacenter edition) SP 2, 32-bit or 64-bit.

#### **Runtime Environments**

 Microsoft .NET Framework 2.0 Service Pack 1 (SP 1) and either 3.0 or 3.5 SP 1, with ASP.NET enabled for either

**Important:** If you have .NET Framework 3.0 or 3.5 SP 1 installed, you must also install .NET Framework 2.0 SP 1, side by side with version 3.0 or 3.5 SP 1.

## **Database Management System**

One of the following:

- Microsoft SQL Server 2000 Service Pack 3a or later, SQL Server 2005 SP 3, or SQL Server 2008 SP 1.
- Oracle (one of the following):
  - 10g Standard R2
  - 10g Enterprise R2
  - 11g Standard R2
  - 11g Enterprise R2
  - 11g RAC R2
- Sun Microsystems MySQL 5.0.41 or 5.1.30.

#### Web browsers

One of the following:

- Microsoft Internet Explorer 6.x, 7.x, or 8.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.

## Flash AnimationSupport

Adobe Flash Player version 10.0

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#### www.hp.com/go/hpsoftwaresupport

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