

HP Operations Manager

For the Windows® operating system

Software Version: 8.16

Deployment Checklist

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Acknowledgements

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- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

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To find more information about access levels, go to:

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Preparing the Management Server

Install WMI Hotfixes.

1. Download the following Microsoft WMI hotfixes from Microsoft:

Operating System	Hotfix
Microsoft Windows Server 2003 SP2	http://support.microsoft.com/kb/931320/ http://support.microsoft.com/kb/933230/ http://support.microsoft.com/kb/933061/
Microsoft Windows Server 2008 SP1 (RTM)	http://support.microsoft.com/kb/958124/ http://support.microsoft.com/kb/954563/ http://support.microsoft.com/kb/952685/
Microsoft Windows Server 2008 SP2	No WMI hotfixes are required.

Tip: When requesting a hotfix, make sure that the platform and language of the management server are the same as the platform and language of your browser. If they are not, click **Show hotfixes for all platforms and languages** and select the hotfix for the platform and language of the management server.

2. Install these WMI hotfixes on the management server.
3. Reboot the management server system.

A reboot is required because the installation of these hotfixes disables WMI notifications until the next reboot. Without WMI notifications, HPOM does not work correctly.

Adapt the WMI Configuration

1. Increase the volume of events that WMI can handle:
 - a. Click **Start** → **Run**. Then type `wbemtest.exe` and connect to the `root\cimv2` namespace.
 - b. Click **Enum Instances**.
 - c. Type `Win32_WMISetting` and click **OK**.
 - d. Double-click the resulting instance (there will be only one).
 - e. Double-click **HighThresholdOnEvents** in the Properties list box.
 - f. Set **HighThresholdOnEvents** to 80000000 and click **Save Property**.
 - g. Double-click **LowThresholdOnEvents** in the Properties list box.
 - h. Set **LowThresholdOnEvents** to 60000000 and click **Save Property**.
 - i. Click **Save Object**.

- j. Exit `wbemtest`.
 - k. Reboot the management server system for these settings to take effect.
2. On the management server and each remote MMC console system, adjust the setting that will increase the WMI query size limit in the registry on the local system:
- a. If HPOM is already installed on the system, close any open HPOM consoles on the system you are configuring.
 - b. Stop the WMI (Windows Management Instrumentation) service on the system. You can do this in `Services.msc`.
Note: Stopping WMI will stop all services that depend on WMI. In `Services.msc`, you can check which services depend on WMI by checking the properties of the WMI service.
 - c. Back up the registry before changing it. Make sure you know how to restore the registry if a problem occurs.
 - d. Create the registry REG_DWORD Value `HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\WBEM\CIMOM\QueryLimit` and assign it a decimal value of 32768.
 - e. Exit the registry.
 - f. Restart the WMI service and all dependent services that have been stopped.
3. On the management server, move WMI to its own svchost:
- a. Open a command prompt and type:

```
RUNDLL32.EXE %Systemroot%\SYSTEM32\WBEM\WMISVC.DLL,MoveToAlone
```
 - b. Reboot the system for this change to take effect.
- You can restore the default behavior by running:
- ```
RUNDLL32.EXE %Systemroot%\SYSTEM32\WBEM\WMISVC.DLL,MoveToShared
```
4. *Optional.* If HPOM is already installed, configure the management server to clean up the handles held by `svchost.exe` by correctly deregistering remote console connections from WMI:
- a. Open the Server Configuration dialog box and find the **Server Monitor** namespace.
  - b. Set the value of **Enables automatic cleanup of WMI resources** to true.
  - c. *Optional.* Change the value of **How often the Server Monitor cleans up WMI resources**. The default 24 means that resources are cleaned up once every 24 hours.
- See the online help topic *HPOM Self Management* → *WMI Resource Cleanup* for details.

## Deploying the Management Server

**Tip:** An overview of the latest HPOM for Windows patches can be obtained from the HP Operations Manager for Windows Patch Matrix website:

<http://support.openview.hp.com/selfsolve/document/KM411947>

## Management Server Installation and Migration Tasks

1. Download the latest installation and upgrade guides from the HP Software Product Manuals website (<http://support.openview.hp.com/selfsolve/manuals>).

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2. Review the guides for detailed information on installation or upgrade requirements and procedures.
3. *Migration only.* If you plan to use a remote SQL Server or the local SQL Server Express database, make sure that the Path variable includes the path to the osql utility:
  - a. Open a command prompt and type the command:

```
osql
```

- b. If the system cannot find the osql utility, edit the system variable Path and add the following line:

```
<8.16_MR_DVD>\Installer\Migration\Binn
```

Where <8.16\_MR\_DVD> is the path to the HPOM 8.16 for Windows installation media or folder.

4. Start the installation wizard using the installation media.

## Management Server Post-installation Tasks

1. Download patch OMW\_00090 and the latest Server/Console Patch for HPOM 8.16 for Windows from the HP Software Support website (<http://www.hp.com/go/hpsupportsupport>).

Customers running the Korean version of HPOM for Windows must download patch OMW\_00096 instead of OMW\_00090, as well as the latest Server/Console Patch for HPOM 8.16 for Windows.

Current Version: OMW\_00186.

Patch OMW\_00186 depends on patch OMW\_00090 (or OMW\_00096 for Korean installations). For more information about patch OMW\_00090, see the *Release Notes for Patch OMW\_00090*, which are available at the HP Software Product Manuals website.

2. Install the Server/Console Patches on the management server.
3. Install the Server/Console Patches on all remote MMC consoles.

## Deploying the HP Operations Agent

The default management server deployment includes HP Operations Agent version 8.60. However, as of August 31, 2013, HP Operations Agent 8.60 is no longer supported and must therefore be replaced with a supported version, namely version 11.0x or 11.1x.

To update HPOM to a supported agent version, request the agent media for version 11.0x or 11.1x from HP and install the agent on the management server. The agent installation and deployment is described in the HP Operations Agent documentation, which is available from <http://support.openview.hp.com/selfsolve/manuals>.

In addition, download and install the latest HP Operations Agent patches from HP Software Support Online at <http://www.hp.com/go/hpssoftwaresupport>.



## Completing the Management Server Deployment

### Optional Management Server Post-Installation Tasks

1. *Optional.* If you use one of the following products or integration, download the HPOM for Windows Server Accessories Patch from the HP Software Support website (<http://www.hp.com/go/hpssoftwaresupport>).

Current Version: OMW\_00183.

The Server Accessories Patch is only required if you use one of the following products or integrations:

- HPOM Dependency Mapping Automation (DMA) 8.20  
(Apply patch OMW\_00183 before installing DMA 8.20.)
  - Integration with HP Operations Manager i Software (OMi)
  - Web-based integration with HP Network Node Manager i Software (NNMi)
2. Install the Server Accessories Patch on the management server only. Do not install the patch on remote MMC consoles.
  3. *Optional.* Check with your HP Support contact if there are any applicable post-patch Server/Console hotfixes. If so, request them from your HP Support contact and install them on the management server and on all remote MMC consoles.
  4. *Optional.* Install hotfix KB2553549 for Windows Server 2008 SP1 (RTM) and Windows Server 2008 SP2 (see <http://support.microsoft.com/kb/2553549>). The hotfix corrects the problem of TCP/IP ports that are in a TIME\_WAIT status not being closed after 497 days from system startup.
  5. *Migration and backup only.* A special installation patch is required to migrate an existing HPOM for Windows management server with patch OMW\_00090 applied to another system. The installation patch is also required for backing up and restoring a management server with patch OMW\_00090 applied. (For more information, see the online help topic *Back up the HPOM management server*.)

Current Version: OMW\_00091.