

# HP Integrity Servers with Windows Server® 2003 and Windows Server® 2008 Overview

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# About This Document

This document introduces the Windows Server® 2003 and Windows Server® 2008 for HP Integrity servers products and describes the structure of the documentation. In addition, it provides recommended reading paths through the documentation.

## Intended Audience

This document is intended for IT professionals who install, configure, and manage HP Integrity servers that run the Microsoft Windows Server 2003 and Windows Server 2008 operating systems.

## Typographic Conventions

This document uses the following typographical conventions:

|                 |                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------|
| Command         | A command name or qualified command phrase.                                                          |
| Computer output | Text displayed by the computer.                                                                      |
| IMPORTANT       | This alert provides essential information to explain a concept or to complete a task                 |
| NOTE            | A note contains additional information to emphasize or supplement important points of the main text. |

## Related Information

For additional information for HP Integrity servers with Microsoft Server Windows 2003 and Windows Server 2008, see the following website:

<http://www.hp.com/support/itaniumservers>

For documentation that supports the Windows Server on Integrity solutions, see the following website:

<http://docs.hp.com>

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Include the document title, manufacturing part number, and any comment, error found, or suggestion for improvement you have concerning this document.



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# 1 Introduction

The HP Windows Solution Release 6.2 is a tested set of HP manageability software, I/O card drivers and firmware, the Windows Server operating system, and Microsoft QFEs. This set has been tested with each HP Integrity platform supported in this release. Release 6.2 supports both Windows Server 2003 SP2 and Windows Server 2008.

This release contains the following components:

- Smart Setup CD
- Smart Update DVD
- Reinstall Image DVD (if the operating system is purchased from HP)

The HP Windows Solution is updated periodically and is available on the web at the following location:

## Smart Setup CD

The Smart Setup CD contains essential software every customer needs to install, configure, and manage Integrity servers with Windows. It has major components:

- Extensible Firmware Interface (EFI)-based setup utility (EBSU)  
Enables easy server and array controller configuration prior to the installation of the operating system.
- HP Smart Update Manager (HPSUM)  
Enables you to deploy software components from a single, easy to use interface. The Smart Components included are the latest tested and compatible HP drivers, firmware, utilities, System Management Homepage (SMH), HP Insight Management Web-Based Enterprise Management (WBEM) Providers, and Version Control agents that assist both in the server deployment process by preparing the server for installation of the Windows Server operating systems and in the ongoing management of the server.

The Smart Components are bundled together in the Support Pack. HP recommends that you install the entire Support Pack because the software set has been tested together. The Support Pack and Smart Components are updated periodically and are available on the web at the following location:

[HP Insight Software](#)

After you receive the Smart Setup CD, insert it into a CD drive to access the contents. To install the Windows Server software, boot from the CD. For information on the installation process, see the *Installation Guide for Windows Server 2003* and *Installation Guide for Windows Server 2008* located on the HP Smart Setup CD.

## Smart Update DVD

The Smart Update DVD contains security fixes and critical updates to the operating system from Microsoft. This CD provides a convenient interface for installing all the QFEs (hotfixes) needed to keep your HP Integrity server up to date and secure.

## Reinstall Image DVD

When you purchase an Integrity server with a Windows Server 2008 operating system from HP, the system image is preloaded on the server. A Windows Server 2008 and Windows Server 2003 Reinstall Image DVD is also included. (The Windows Server 2003 Reinstall DVD is for customers who are using downgrade rights.)



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**NOTE:** For Integrity servers that come with the Windows Server 2008 operating system preloaded or when using the Reinstall Image DVD, you are prompted to update the Support Pack from the Smart Setup CD to get the latest versions of the Smart Components and to use the Smart Update DVD to install the latest MS QFEs. HP recommends that you update the Support Pack and install the latest QFEs.

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## Windows Solution Documentation

The documentation for Microsoft Windows Server 2003 and Windows Server 2008 for HP Integrity servers is comprehensive and varied. It is delivered on the web at <http://docs.hp.com>. A subset of that documentation is delivered on the Smart Setup CD.

This section describes the documentation organization on docs.hp.com, describes recommended reading paths, and lists the documents available on the Smart Setup CD.

### docs.hp.com organization

On the docs.hp.com website, the Windows Server for HP Integrity servers documentation is organized into the following suites:

|                                |                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Overview                       | Contains high-level descriptive documentation and this document.                                                            |
| Installation and Configuration | Contains documentation to enable you to install and configure the Windows Server operating systems on HP Integrity servers. |
| Administration and User Guide  | Contains documentation for those tasks that you typically perform after installation and configuration.                     |
| Troubleshooting                | Contains documentation to enable you to solve any problems that might occur.                                                |

### Navigating the documentation

This section provides you with reading paths based on questions that you might ask as you plan your installation and deployment in your environment. The planning steps are as follows:

1. Determine which Integrity systems are supported in this release and which hardware cards are supported on each system.
2. Verify that the correct hardware cards are installed.
3. Install the software.
4. Perform optional administrative tasks.
5. Troubleshoot any problems.

### Determining system and hardware support

To determine system hardware and hardware I/O card support in this release, see the following documents:

- *Release Notes*
- *Installation Guide for Windows Server 2003* (formerly the *Smart Setup Guide*)
- *Installation Guide for Windows Server 2008*

### Verifying hardware card installation

After you determine which hardware I/O cards are supported on your system, verify that they are installed. If they are installed, go to “Installing the software” (page 10). If they are not installed, this section shows the appropriate documentation for installing network, SCSI, RAID SmartArray, and Fibre Channel HBA components.



## Installing network controller cards

To install a Gigabit Ethernet controller, see the following guides for your specific card:

Cards installed in PCIe slots      *Network Cards Generic PCIe Guide*

Cards installed in mezzanine slots      *Network Cards Generic Mezzanine Guide*

## Installing SCSI controllers

To install a SCSI controller, see the following guide:

A7173A      *A7173A PCI-X Dual Channel Ultra320 SCSI Host Bus Adapter Installation Guide for HP Integrity Servers*

## Installing RAID SmartArray Controllers

To install a RAID SmartArray controller, see the following guides for your specific controller:

E500      *HP Smart Array E500 Controller for Integrity Servers User Guide*

P600      *HP Smart Array P600 Controller for Integrity Servers User Guide*

P700m      *HP Smart Array P700m Controller for Integrity Servers User Guide*

P800      *HP Smart Array P800 Controller for Integrity Servers User Guide*

6400      *HP Smart Array 6400 Series Controllers for Integrity Servers User Guide*

## Installing Fibre Channel HBA controllers

To install a 2 Gb Fibre Channel HBA controller, see the guides for your specific controller:

AB232A      *HP StorageWorks Emulex Fibre Channel Host Bus Adapters for Proliant and Integrity Servers using Microsoft Windows and VMware Operating Systems Release Notes*

*HP StorageWorks B232A PCI-X Host Bus Adapter*

A7298A      *HP StorageWorks Emulex Fibre Channel Host Bus Adapters for Proliant and Integrity Servers using Microsoft Windows and VMware Operating Systems Release Notes*

*HP StorageWorks host bus adapter for Windows and Linux*

AB466A and AB467A      *HP StorageWorks Emulex Fibre Channel Host Bus Adapters for Proliant and Integrity Servers using Microsoft Windows and VMware Operating Systems Release Notes*

*HP StorageWorks AB466A and AB467A PCI-X Host Bus Adapters for 64-Bit Windows Systems*

To install a 8 Gb or 4 Gb Fibre Channel HBA controller, follow these steps:

1. For mezzanine card installation, see the *User Service Guide* for your specific system:

BL860c      *HP Integrity BL860c Server Blade User Service Guide* at:

<http://bizsupport.austin.hp.com/bc/docs/support/SupportManual/c01157868/c01157868.pdf>

BL870c      *HP Integrity BL870c Server Blade User Service Guide* at:

<http://bizsupport.austin.hp.com/bc/docs/support/SupportManual/c01327127/c01327127.pdf>

2. For PCI slot installation and software installation, see the guides for your specific controller:

|            |                                                                                                                                                                                                                 |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QLogic HBA | <i>HP StorageWorks QLogic host bus adapters running under Linux and Windows release notes</i><br><i>HP StorageWorks QLogic 8Gb and 4Gb host bus adapters running under Linux and Windows installation guide</i> |
| Emulex HBA | <i>HP StorageWorks Emulex host bus adapters running under Linux and Windows release notes</i><br><i>HP StorageWorks Emulex 8Gb and 4Gb host bus adapters running under Linux and Windows installation guide</i> |

## Installing the software

To install the Windows Server operating system on your HP Integrity server, see the following documents:

- *Installation Guide for Windows Server 2003*
- *Installation Guide for Windows Server 2008*

In addition, the following installations are supported:

- Cluster installations
- SAN installations
- Installations to multiple systems using Rapid Deployment Pack (RDP)
- Installations to multiple systems using the Smart Setup Scripting Toolkit (SSTK)
- Installations using the 1068 controller

The following sections show the documents required to perform the indicated installation.

### Cluster installation

If you want to install the Windows software on a cluster either for creating a server cluster or for network load balancing, see the following documents in order:

1. *Cluster Installation and Configuration Guide* for cluster system requirements
2. *Installation Guide for Windows Server 2003* or *Installation Guide for Windows Server 2008* for each system you want to add to the cluster
3. *Cluster Installation and Configuration Guide* for actual cluster creation and configuration

### SAN installation

If you want to install Windows to facilitate booting from a SAN as opposed to an internal boot device, see the following documents in order:

1. *Booting Windows Server 2003 for Itanium-based systems from a storage area network application notes*
2. *Installation Guide for Windows Server 2003* or *Installation Guide for Windows Server 2008*

### Installation to multiple systems using RDP

If you want to install the Windows software to multiple systems using RDP, see the following documents in order:

1. *Rapid Deployment Pack Installation Guide*
2. *Rapid Deployment Pack User's Guide*

### Installation to multiple systems using SSTK

If you want to install the Windows software to multiple systems using SSTK, see the following documents in order:

1. *Installation Guide*
2. *Smart Setup Scripting Toolkit Administrator's Guide*

Installation using the embedded 1068 controller (Blade servers only)

If you want to install the Windows software to a BL860c or BL870c system using the embedded 1068 controller, see the following documents:

- *How to configure your embedded 1068 controller as the system boot controller on BL860c and BL870c blade servers*
- *Installation Guide for Windows Server 2003 or Installation Guide for Windows Server 2008*

## Performing administrative tasks

After installing the Integrity Support Pack and HP Insight Management WBEM Providers, you can perform the following additional tasks:

- Add and remove PCI cards (hot-plug operations) on HP Integrity servers.
- Use the management processor (MP)
- Use the Special Administration Console (SAC)
- Manage software and firmware component versions
- Manage your systems using HP System Management Homepage (SMH)
- Update your system software using HP Smart Update Manager (HPSUM)
- Configure any network adapters

### Adding and removing PCI cards

For information on adding and removing PCI cards to and from your Integrity server, see the *Windows Server 2003 and Windows Server 2008 Administration Guide*.

### Using the Management Processor (MP)

The Management Processor (MP) provides access to the Special Administration Console (SAC) console or the EFI Shell and enables you to configure a machine before installing the operating system and to access the MP using the IP address specific to the MP. For information on using the MP, see the *Windows Server 2003 and Windows Server 2008 Administration Guide*.

### Using the Special Administration Console (SAC)

Special Administration Console (SAC) is the primary Emergency Management Services command-line environment hosted by Windows Server 2003 and Windows Server 2008. It is separate from the command-line environment and provides different functionality. For information on using the SAC, see the *Windows Server 2003 and Windows Server 2008 Administration Guide*.

### Managing software and firmware versions

To enable you to better manage your server, HP provides the HP Version Control Repository Manager (VCRM) and HP Version Control Agent (VCA).

The VCRM stores the software and firmware components that support Integrity servers on Windows platforms. You can use the VCRM to define software baselines and to automate the installation and change management of HP software and firmware updates to production system.

The VCA is an Insight Management Agent installed on a server. The VCA enables you to view the HP software and firmware that is installed on that server. The VCA provides version control and system update capabilities for a single HP server.

For additional information about version control and its components, see the following documents:

- *Version Control Release Notes*
- *Version Control Installation Guide*
- Version Control Agent online help

## Using System Management Homepage

HP System Management Homepage (HP SMH) is a web-based interface that consolidates and simplifies single system management for HP servers on HP-UX, Linux, and Microsoft Windows operating systems. You typically install HP SMH and management agents when you install Windows Server from the Smart Setup CD. For additional information about HP SMH, see the following documents:

- *System Management Homepage Release Notes*
- *System Management Homepage Installation Guide*
- *System Management Homepage User Guide*

For information about the management agents, see the *Installation Guide for Windows Server 2003* or *Installation Guide for Windows Server 2008* and the HP SMH online help.

## Using HP Smart Update Manager

The HP Smart Update Manager (HPSUM) utility enables you to deploy Integrity Support Pack (ISP) software components from a single, easy-to-use interface. The utility also provides installation logic and version control that automatically check for dependencies, installing only the correct updates for optimal configuration. For additional information about HPSUM, see the *HP Smart Update Manager (HPSUM) User Guide* and online help.

## Configuring network adapters

The HP Network Configuration Utility (NCU) enables configuration of network adapters and teams of network adapters installed on an HP Integrity server. To better support server management, the NCU has been enhanced using the Replicate Agent Settings tool of HP Systems Insight Manager (HP SIM). For information on configuring network adapters, see the *Networking Utilities User Guide*.

## Troubleshooting problems

If you encounter problems, see the following documents:

|                                           |                                                                                                                                                                                                                                       |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Release Notes</i>                      | Contains information about problems that you might encounter while installing the Integrity Support Pack or management agents.                                                                                                        |
| <i>Kernel Debug Guide</i>                 | Provides information for driver writers to debug device drivers and for support professionals to analyze system crashes.                                                                                                              |
| <i>Windows Server 2003 Recovery Guide</i> | Describes Windows Server 2003 recovery features and their recommended order of use.                                                                                                                                                   |
| <i>Windows Server 2008 Recovery Guide</i> | Describes Windows Server 2008 recovery features and their recommended order of use.                                                                                                                                                   |
| <i>Management Agents Events Reference</i> | Describes the Windows System Log Event ID number, severity, and description of events generated by the HP Integrity Management Agents software on HP Integrity servers running Microsoft Windows Server 2003 and Windows Server 2008. |

## Documentation on Smart Setup CD

The following manuals are available on the Smart Setup CD:

- *Overview (this manual)*
- *Release Notes*
- *Installation Guide for Windows Server 2003*
- *Installation Guide for Windows Server 2008*

- *Boot from SAN Guide*
- *HP Smart Update Manager (HPSUM) User Guide*