

# HP Insight Server Migration software for ProLiant Support Matrix

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# About this document

## Document organization

This Support Matrix consists of sections to help you make sure all the hardware and software requirements have been met before installing SMP.

## New and changed information in this edition

For information on what's new or has changed in this document since its previous release, see *HP Insight Server Migration software for ProLiant Release Notes*.

## Related documents

For more information about SMP see:

- SMP Edition product website at <http://www.hp.com/go/migrate>
- *HP Insight Server Migration software for ProLiant Release Notes*
- *HP Insight Server Migration software for ProLiant User Guide*
- *Performing physical to ProLiant application migrations with the HP Insight Server Migration software for ProLiant – Physical to ProLiant Editions* white paper (contact your HP account manager)
- Portable Images Network Tool (PINT) readme files





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# 1 HP Insight Server Migration software for ProLiant Support Matrix

## Overview

HP Insight Server Migration software for ProLiant 3.70 enables the following server migrations for Windows migrations:

- Physical-to-ProLiant (P2P)
- Physical-to-virtual (P2V)
- Virtual-to-ProLiant (V2P)
- Virtual-to-virtual (V2V)

HP Insight Server Migration software for ProLiant 3.70 enables the following server migrations for Linux migrations:

- ▲ Physical-to-ProLiant (P2P)

SMP enables you to migrate an operating system, applications, and data from one server to another, instead of manually reinstalling these elements. SMP supports Windows migration of New Technology File System (NTFS), File Allocation Table (FAT) partitions, and RAW partitions where no file systems exist. SMP supports Linux migration of ext2/3, reiserfs, and Linux Swap without disk resizing.



**IMPORTANT:** To install SMP and perform migrations, you must have administrator/root privileges.

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## HP Insight Server Migration software for ProLiant installation requirements

### Software compatibility

SMP can be used as a stand-alone product or with HP Systems Insight Manager (HP SIM) 5.3.

### Application station requirements

The **application station** is the computer or virtual machine from which you set up and perform SMP migrations.

### Operating system requirements

SMP supports any application station with one of the following 32-bit operating systems:

- Windows Server® 2003, Standard Edition Service Pack 1
- Windows Server 2003, Enterprise Edition Service Pack 1
- Windows Server 2003, Standard Edition Service Pack 2
- Windows Server 2003, Enterprise Edition Service Pack 2
- Windows Server 2003 R2, Standard Edition
- Windows Server 2003 R2, Enterprise Edition
- Windows Server 2003 R2, Standard Edition Service Pack 2
- Windows Server 2003 R2, Enterprise Edition Service Pack 2
- Microsoft® Windows® XP Professional Service Pack 2
- Microsoft Windows XP Professional Service Pack 3
- Windows Server 2008, Enterprise Edition
- Windows Server 2008, Standard Edition 32-bit
- Windows Server 2008, Standard Edition 64-bit with 32-bit emulation
- Windows Server 2008, Enterprise Edition 64-bit with 32-bit emulation



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**NOTE:** You can install the application station on a virtual machine running one of the 32-bit operating systems above. The virtual machine can run in one of the following hypervisors:

- VMWare ESX 3.0.2 Update 1
  - VMWare ESX 3.0.3
  - VMWare ESX 3.5 Update 4
- 

## Other requirements

- Microsoft iSCSI Initiator 2.06, 2.07, or 2.08, which you can download and install from <http://www.microsoft.com> (Other versions of the initiator, including later versions, cannot be used with this version of SMP application).
- iSCSI Initiator v 6.0, if you are using Windows 2008 on the CMS
- Microsoft Internet Explorer 6.0 or 7.0, Mozilla Firefox 2.0.0.16, or Mozilla Firefox 3.0.0
- SMP installed on an NTFS partition
- Available memory of at least 600 MB
- Screen resolution of at least 1024x768
- Available disk space of at least 900 MB
- Availability of ports 51124 and 51125 (or ports specified during SMP installation for agent communications and automatic booting of destination server)
- Availability of port 51127
- User account credentials with administrative rights
- Free disk space of at least 300 MB per iLO Boot while booting a destination server for P2P and V2P

## Source server requirements

The **source server** is the server or virtual machine to be migrated.

## Windows operating system requirements

The physical or virtual source server requires the following components to be installed:

- User account credentials with administrative rights
- A 32-bit version of supported Windows operating systems
- Available memory of at least 600 MB
- Available disk space of at least 180 MB
- Availability of ports 51125 and 51126
- Screen resolution of at least 800x600



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### IMPORTANT:

- Before performing an X2P migration, verify the compatibility between operating systems and HP ProLiant servers at <http://h10018.www1.hp.com/wwsolutions/windows/index-all.html>.
  - Before performing an X2V migration, verify the compatibility between operating systems and virtual machine host guest support.
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## SMP supported Linux migrations

Operating system

Red Hat Linux 5.2 32-bit

## Linux operating system requirements



**NOTE:** For Linux migrations, GRUB Boot Loader is required as the primary boot loader on the source.

SMP supports the following file systems without disk resizing:

- ext2/3
- reiserfs
- Linux Swap

The following are not supported with Linux migrations:

- Migrations with hypervisor
- Migrations installed with Windows in dual-boot mode
- Migrations to SAN disk
- Migrations with para-virtualized or non-standard kernels
- Migrations of LVM snapshots
- Migrations of Linux OS with encrypted partitions (Software RAID is not supported)
- Running any post-migration steps such as Linux Support Packs installation and HP SIM discovery

## Supported 32-bit operating systems for each migration type supported by SMP

**Table 1-1 Supported 32-bit operating systems for each migration type supported by SMP**

Supported operating systems	P2P	P2V	V2P	V2V
Red Hat Enterprise Linux 5.2 32-bit	✓			
Windows Server 2003, Standard Edition		✓	✓	✓
Windows Server 2003, Standard Edition, Service Pack 1	✓	✓	✓	✓
Windows Server 2003, Standard Edition, Service Pack 2	✓	✓	✓	✓
Windows Server 2003 R2, Standard Edition	✓	✓	✓	✓
Windows Server 2003 R2, Standard Edition, Service Pack 2	✓	✓	✓	✓
Windows Server 2003, Enterprise Edition		✓	✓	✓
Windows Server 2003, Enterprise Edition, Service Pack 1	✓	✓	✓	✓
Windows Server 2003 R2, Enterprise Edition	✓	✓	✓	✓
Windows Server 2003 R2, Enterprise Edition, Service Pack 2	✓	✓	✓	✓
Windows Server 2003 SBS, Standard Edition	✓			
Windows Server 2003 SBS R2, Standard Edition	✓			
Windows Server 2003 SBS, Premium Edition	✓			
Windows Server 2003 SBS R2, Premium Edition	✓			
Windows Server 2003, Web Edition, Service Pack 1	✓		✓	
Windows Server 2003, DataCenter Edition	✓	✓	✓	✓
Windows Server 2008, Standard Edition	✓	✓	✓	✓
Windows Server 2008, Enterprise Edition	✓	✓	✓	✓
Windows Server 2008, DataCenter Edition	✓	✓	✓	✓
Windows Web Server 2008	✓	✓	✓	✓
Windows Server 2008, Standard Edition (Server Core Edition)	✓	✓	✓	✓
Windows Server 2008, Enterprise Edition (Server Core Edition)	✓	✓	✓	✓
Windows Server 2008, DataCenter Edition (Server Core Edition)	✓	✓	✓	✓

Supported operating systems	P2P	P2V	V2P	V2V
Windows Web Server 2008 (Server Core Edition)	✓	✓	✓	✓



**CAUTION:** Attempting to migrate an unsupported operating system configuration might result in a failed migration and in unnecessarily consuming a license.

## Physical destination server hardware requirements for Windows migrations

The **destination server** is the server or virtual machine where the source server is migrated. SMP supports the following destination server physical hardware.

### HP ProLiant servers

- ProLiant BL20p G4
- ProLiant BL25p G2
- ProLiant BL35p G1
- ProLiant BL45p G2
- ProLiant BL260c G5
- ProLiant BL280c G6
- ProLiant BL2x220c G5
- ProLiant BL460 G6
- ProLiant BL460c G1
- ProLiant BL460c G5
- ProLiant BL465c G1
- ProLiant BL465c G5
- ProLiant BL480c G1
- ProLiant BL490c G6
- ProLiant BL495c G5
- ProLiant BL680c G5
- ProLiant BL685c G1
- ProLiant BL685c G5
- ProLiant BL685c G6
- ProLiant DL320 G5
- ProLiant DL320 G5p
- ProLiant DL320 G6
- ProLiant DL360 G4
- ProLiant DL360 G5
- ProLiant DL360 G6
- ProLiant DL365 G1
- ProLiant DL365 G5
- ProLiant DL380 G4
- ProLiant DL380 G5
- ProLiant DL380 G6
- ProLiant DL385 G2
- ProLiant DL385 G5p

- ProLiant DL385 G5
- ProLiant DL580 G4
- ProLiant DL580 G5
- ProLiant DL585 G2
- ProLiant DL585 G5
- ProLiant DL785 G5
- ProLiant ML310 G4
- ProLiant ML310 G5
- ProLiant ML310 G5p
- ProLiant ML350 G5
- ProLiant ML350 G6
- ProLiant ML370 G5
- ProLiant ML370 G6
- ProLiant ML570 G4

#### Network controllers \*

- HP NC110T
- HP NC320i
- HP NC324i
- HP NC325m
- HP NC326i
- HP NC326m
- HP NC360m
- HP NC360T
- HP NC362i
- HP NC364T
- HP NC364m
- HP NC370i
- HP NC371i
- HP NC373f
- HP NC373i
- HP NC373m
- HP NC373T
- HP NC374m
- HP NC380T
- HP NC382i
- HP NC382m
- HP NC382T
- HP NC510C
- HP NC510F
- HP NC512m
- HP NC532i

- HP NC532m
- HP NC7170
- HP NC7771
- HP NC7781
- HP NC7782

\* Supported destination servers with unsupported embedded controllers are not supported for migration.

## Storage controllers \*

- Broadcom HT-1000 with SATA
- HP 4 Internal Port SAS HBA
- HP 8 Internal Port SAS HBA
- HP SC40Ge HBA
- HP Smart Array 6i
- HP Smart Array 6402
- HP Smart Array 6404
- HP Smart Array 641
- HP Smart Array 642
- HP Smart Array E200
- HP Smart Array E200i
- HP Smart Array E500
- HP Smart Array P212
- HP Smart Array P400
- HP Smart Array P400i
- HP Smart Array P410
- HP Smart Array P410i
- HP Smart Array P411
- HP Smart Array P600
- HP Smart Array P712m
- HP Smart Array P800
- Intel® 6300ESB/82801FR SATA controller
- Intel 82801 GR SATA controller
- Intel 82801JI (ICH10 Family) 4 port SATA

\* Supported destination servers with unsupported embedded controllers are not supported for migration.

## Fibre Channel HBA

- Emulex LPe1105-HP 4Gb FC HBA for HP c-Class BladeSystem
- QLogic QMH2462 4Gb FC HBA for HP c-Class BladeSystem

## Storage enclosures \*

- HP Modular Smart Array 30
- HP Modular Smart Array 50
- HP Modular Smart Array 60
- HP Modular Smart Array 70

\* Supported destination servers with unsupported embedded controllers are not supported for migration.

## SAN storage arrays

- HP StorageWorks 1000 Modular Smart Array
- HP StorageWorks 1500cs Modular Smart Array
- HP StorageWorks 4100/6100/8100 Enterprise Virtual Arrays

## Physical destination server hardware requirements for Linux migrations

The **destination server** is the server where the source server is migrated. SMP supports the following destination server physical hardware.

### HP ProLiant servers

- ProLiant BL460 G6
- ProLiant BL460c G5
- ProLiant BL495c G5
- ProLiant DL360 G5
- ProLiant DL360 G6
- ProLiant DL380 G5
- ProLiant DL380 G6

### Network controllers \*

- HP NC373i
- HP NC382i
- HP NC532i

\* Supported destination servers with unsupported embedded controllers are not supported for migration.

## Migration configuration exceptions

SMP does not support migrations between some Microsoft operating systems and some HP ProLiant servers. The following are not supported.

### Windows Server 2003 Web Edition

- ProLiant BL45p G1
- ProLiant BL45p G2
- ProLiant BL460c G1
- ProLiant BL465c G1
- ProLiant BL480c G1
- ProLiant BL680c G5
- ProLiant BL685c G1
- ProLiant DL580 G4
- ProLiant DL580 G5
- ProLiant DL585 G2
- ProLiant ML570 G4

## SMP supported Windows migrations

### Agent-less hypervisors

- HP integrated VMware ESXi 3.5
- HP integrated VMware ESXi Update 1
- HP integrated VMware ESXi Update 2
- HP integrated VMware ESXi Update 3
- HP integrated VMware ESXi Update 4
- Citrix XenServer 5.0
- HP integrated Citrix XenServer
- Microsoft Hyper-V™
- Microsoft Hyper-V Server 2008
- VMware ESX 3.5
- VMware ESX 3.5 Update 1
- VMware ESX 3.5 Update 2
- VMware ESX 3.5 Update 3
- VMware ESX 3.5 Update 4

### Agent-based hypervisors



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**NOTE:** Windows 2008 virtual machine migrations are not supported to or from Microsoft Virtual Server.

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- Microsoft Virtual Server 2005 R2
- Microsoft Virtual Server 2005 R2, Service Pack 1
- VMware™ Server 1.0.5 (installed on a Windows system only)
- VMware Server 1.0.6 (installed on a Windows system only)
- VMware Server 1.0.7 (installed on a Windows system only)
- VMware Server 1.0.8 (installed on a Windows system only)
- VMware ESX 2.5.5
- VMware ESX 3.0
- VMware ESX 3.0.2
- VMware ESX 3.0.2 U1

## Virtual machine host requirements

The destination virtual machine hosts require the following components to be installed:

- A supported virtual machine host, used for destination with SMP for P2V or V2V migrations
- User account credentials with administrative rights
- Available memory of at least 600 MB
- Available disk space of at least 256 MB for agent-based hosts and 750 MB for agent-less hosts
- Availability of ports 51125, 51126, and 51127
- The latest updates installed



## Unsupported disk types

**Table 1-2 Disk types not moved, copied, or migrated by SMP**

Virtualization technology	Disk type
Microsoft Virtual Server 2005	Linked disk
	Differencing disk
VMware ESX	Append disk
	Undoable disk
	Nonpersistent disk
VMware ESX	Physical (RAW) disk
VMware Server	



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## 2 HP support and contact information

This user guide provides step-by-step instructions for installing and using HP Insight Server Migration software for ProLiant.

### HP Software Technical Support and Update Service

HP offers a number of software support services, many of which are provided to our customers at no additional charge.

- **Software Technical Support**—HP Insight Server Migration software for ProLiant includes one year of 24 x 7 HP Software Technical Support Service. This service provides access to HP technical resources for assistance in resolving software implementation or operations problems. With this service, Insight Control and ProLiant Essentials customers will benefit from expedited problem resolution as well as proactive notification and delivery of software updates. For more information about this service, see <http://www.hp.com/services/insight>.

#### Registration for Software Technical Support:

There are two methods for registering:

- If you received a license entitlement certificate, automated registration for this service will take place upon online redemption of the license certificate/key.
- If the license information you received for your product instructs you to register for Software Technical Support and Update Service, follow the instructions so that you will be eligible for telephone support and product updates.

#### How to Use Your Software Technical Support and Update Service:

Once registered, you will receive a service contract in the mail containing the Customer Service phone number and your Service Agreement Identifier (SAID). You will need your SAID when calling for technical support. Using your SAID, you can also go to the Software Update Manager (SUM) web page to view your contract online and elect electronic delivery for product updates.

- **Warranty**—HP will replace defective delivery media for a period of 90 days from the **date of purchase**. This warranty applies to all Insight Control Environment, HP Systems Insight Manager, and ProLiant Essentials products.
- **Join the discussion**—The HP Support Forum is a community-based, user-supported tool for HP customers to participate in discussions amongst the customer community about HP products. For discussions related to Insight Control and ProLiant Essentials software, see the "Management Software and System Tools" area.
- **Software and Drivers download pages**—These pages provide the latest software and drivers for your ProLiant products.
- **Management Security** (<http://www.hp.com/servers/manage/security>)—HP is proactive in its approach to the quality and security of all its management software. Be sure to check this website often for the latest downloadable security updates.
- **Obtain the latest SmartStart Release** (<http://www.hp.com/servers/smartstart>)—The SmartStart, Management, and Firmware CDs are now freely available for download following a simple registration from the SmartStart website. If you wish to receive physical kits with each release, you can order single release kits from the SmartStart website. To receive proactive notification when SmartStart releases are available, subscribe to Subscriber's Choice at <http://www.hp.com/go/subscriberschoice>.

HP Worldwide Customer Service contact numbers are available at <http://www.hp.com/country/us/en/wwwcontact.html>. For U.S. customers, say "Insight Manager" when prompted for the product name.

## Support and information

For HP support and software updates for SMP, see the following resources:

- <http://www.hp.com/go/insight>
- *HP Insight Server Migration software for ProLiant User Guide*
- *HP Insight Server Migration software for ProLiant Release Notes*

For additional information about HP SIM, see the following resources:

- <http://www.hp.com/go/hpsim>
- *HP SIM Technical Reference Guide*
- *HP Systems Insight Manager Help Guide*

## HP contact information

For the name of the nearest HP authorized reseller:

- In the United States, see the HP US service locator at [http://www.hp.com/service\\_locator](http://www.hp.com/service_locator).
- In other locations, see Contact HP worldwide at <http://welcome.hp.com/country/us/en/wwcontact.html>.

For HP technical support:

- In the United States, for contact options see Contact HP United States at <http://welcome.hp.com/country/us/en/wwcontact.html>. To contact HP by phone, call 1-800-HP-INVENT (1-800-474-6836). This service is available 24 hours a day, 7 days a week. For continuous quality improvement, calls may be recorded or monitored.
- In other locations, see Contact HP worldwide at <http://welcome.hp.com/country/us/en/wwcontact.html>.