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# Implementing Novell Nakoma (NetWare 6.5) on ProLiant servers

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## Abstract

This integration note was designed to help customers who want to test the Public Beta release of Novell Nakoma (NetWare 6.5) on ProLiant servers. Beginning with the Public Beta release (Beta 3 or Open Beta), HP will provide limited support for non-production deployments of Nakoma.

This paper describes the level of support available for Nakoma:

- Supported ProLiant servers
- Recommended configurations
- Supported storage options and network adapters
- Installation procedures
- Known issues and workarounds

## Symbols in text

The following symbols can be found in the text of this document:



**IMPORTANT:** Text set off in this manner presents clarifying information or specific instructions.

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**Note:** Text set off in this manner presents commentary, sidelights, or interesting points of information.

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## Introduction to NetWare Nakoma

Nakoma, the next release of the NetWare 32-bit operating system, is built on the Novell NetWare 6 code base. Novell will market Nakoma as Novell NetWare 6.5. Nakoma will focus on the end user by providing "One Net" access from anywhere and any device. Novell has indicated that applications currently supported on NetWare 6 will be supported on Nakoma.

## Supported configurations

HP plans to support Nakoma on all ProLiant ML and DL servers that also support NetWare 6. The complete list of supported server platforms is listed in Table 2.

The listing of a particular ProLiant server or option in the tables that follow does not mean that all of the subsystems embedded in that server are fully tested or that all servers and options have undergone extensive functional testing. In addition, not all listed options are supported on all listed servers. Check the QuickSpecs of the server in question to determine the supported options.

Carefully review this document for the recommended system configuration and possible issues that you might encounter. Performing due diligence optimizes your resources and testing scenarios. Do not use this paper as your sole source of information. You should visit the Novell beta website, <http://beta.novell.com/>, for additional information regarding this product.

**Recommended system configuration**

Table 1 lists the recommended system configuration established by Novell for Nakoma. The recommended system configuration might change as the final release becomes imminent.

**Table 1. Recommended System Configuration for Nakoma**

Parameter	Value
Processor	550 MHz Pentium III or greater
RAM	512 MB (OS only); 1 GB (OS and all applications)
Monitor	VGA or higher resolution
Available disk space	500 MB DOS partition; 1 GB for OS and applications
<p><b>Note:</b> HP has seen installation issues occur with some server ROM versions. Prior to installation, ensure that the latest server ROM has been installed on the server. To download the latest server ROMs, visit <a href="http://h18023.www1.hp.com/support/files/server/us/romtabl.html">http://h18023.www1.hp.com/support/files/server/us/romtabl.html</a>. Additionally, apply firmware updates to all devices in the server such as controllers and disk drives. Driver updates for all HP products can be found at <a href="http://h18023.www1.hp.com/support/files/server/us/">http://h18023.www1.hp.com/support/files/server/us/</a>.</p>	

**Server platforms**

Table 2 lists the ProLiant servers that currently support Nakoma. This table is subject to change prior to the official product release date.

**Table 2. Supported System Platforms for Nakoma**

CL servers	DL servers	ML servers
<b>ProLiant CL380</b>	<b>ProLiant DL360</b> (all generations and speeds)	<b>ProLiant ML310</b>
	<b>ProLiant DL380</b> (all generations and speeds)	<b>ProLiant ML330</b> (1.13 GHz and greater)
	<b>ProLiant DL380 Packaged Cluster</b> (all generations and speeds)	<b>ProLiant ML350</b> (all generations and speeds)
	<b>ProLiant DL560</b>	<b>ProLiant ML370</b> (all generations and speeds)
	<b>ProLiant DL580</b> (all generations and speeds)	<b>ProLiant ML530</b> (all generations and speeds)
	<b>ProLiant DL760</b> (G1 only)	<b>ProLiant ML570</b> (all generations and speeds)
		<b>ProLiant ML750</b>

If a ProLiant server is not listed above, it does not support Nakoma.

**Supported software**

Table 3 lists supported ProLiant utilities, drivers, and other value-add software and their corresponding version needed for Nakoma.

These utilities and drivers will be available as a ProLiant Support Pack (PSP) for Nakoma after Nakoma is officially released. Upon release, the PSP can be downloaded from <http://h18007.www1.hp.com/support/files/server/us/index.html>.

From this link, use option2: locate by category, and select **NetWare 6.5** from the drop-down list box.

**Note:** The PSP for Nakoma will not be present on SmartStart until Nakoma is a fully shipping operating system.

**Table 3. Supported ProLiant Value-add Software**

Utility	Module name	Minimum version
Server Health Driver	CPQHLTH.NLM CPQLGCV.NLM CPQASM.NLM	5.07
Server Agents	CPQBSSA.NLM CPQHTHSA.NLM CPQRISA.NLM	6.4
Foundation Agents	CPQHOST.NLM CPQHMMO.NLM CPQTHRSA.NLM CPQWEBAG.NLM CPQHLLTAG.NLM CPQSNMP.NLM CPQFOUND.RDM	6.4
NIC Agents	CPQNCSA.NLM CPQNIC.RDM CPQHLLTAG.NCF CPQSNMP.NCF	6.4
Storage Agents	CPQSSSA.NLM CPQDASA.NLM CPQIDES.A.NLM CPQSCSA.NLM CPQHLLTAG.NLM CPQSNMP.NLM CPQFCASA.NLM	6.4
Integrated Management Log Viewer	CPQIML.NLM	1.23b
Survey Utility	SURVEY.NLM SINSTALL.NLM SURVEYCW.NLM SURVEY.INI	2.52

Utility	Module name	Minimum version
Online Array Configuration Utility <sup>1</sup>	CPQONLIN.NLM	2.68b
System Bus Driver <sup>2</sup>	CPQSBD.NLM CPQSBD.HDI	3.17
iLO Management Interface Driver	CPQCI.NLM	1.02
RIOE Management Interface Driver	CPQRI.NLM	3.12
hp ProLiant CSB-6 ATA-100 IDE RAID Management Utility for NetWare	SPY.NLM	7.20b
NIC Teaming Driver for N100.LAN and N1000.LAN Drivers	CPQANS.LAN CPQANS.LDI	6.38
NIC Teaming Drivers for Q57.LAN Driver	QASP.LAN QASP.LDI BMAPI.NLM	2.10
<b>Note 1:</b> This utility only supports devices that use CPQARRAY.HAM or CPQFC.HAM as the driver. Refer to Table 5 for a list of supported devices.		
<b>Note 2:</b> This driver also ships on the Nakoma base media.		

All other HP-specific drivers needed to install and run Nakoma are included on the Nakoma base media, as well as on the Nakoma PSP mentioned previously.

## Supported storage options

Table 4 lists supported ProLiant tape options that support NetWare 6 and are planned for Nakoma support. Visit the backup vendor's website to determine support availability.

**Table 4. Supported ProLiant Tape Storage Options for Nakoma**

Option	Driver	Location
Compaq 4/8-GB SLR Tape Drive	Vendor Specific	Nakoma Operating System CD
Compaq 4x-32x CD-ROM Drives	Vendor Specific	Nakoma Operating System CD
Compaq AIT Tape Drives	Vendor Specific	Nakoma Operating System CD
Compaq DAT Tape Drives	Vendor Specific	Nakoma Operating System CD
LTO 215/230 Ultrium-1 Tape Drives	Vendor Specific	Nakoma Operating System CD
Compaq 4/8 GB Autoloader	Vendor Specific	Nakoma Operating System CD
Compaq DDS2 4/16 GB Autoloader	Vendor Specific	Nakoma Operating System CD
Compaq DDS3 12/24 GB DAT Autoloader	Vendor Specific	Nakoma Operating System CD
Compaq DDS4 20/40 GB DAT Autoloader	Vendor Specific	Nakoma Operating System CD
StorageWorks 35GB AIT Autoloader	Vendor Specific	Nakoma Operating System CD
StorageWorks 8/16 Cartridge DLT Autoloader	Vendor Specific	Nakoma Operating System CD
Compaq DLT 15 Cartridge Library Model 15/30	Vendor Specific	Nakoma Operating System CD
Compaq DLT 15 Cartridge Library Model 20/40	Vendor Specific	Nakoma Operating System CD
Compaq DLT 15 Cartridge Library Model 35/70	Vendor Specific	Nakoma Operating System CD
Compaq DLT Tape Drives	Vendor Specific	Nakoma Operating System CD

Option	Driver	Location
StorageWorks ESL9326 Family DLT/SDLT Library	Vendor Specific	Nakoma Operating System CD
StorageWorks ESL9322L1 LTO-1 Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks ESL9322S2 SDLT Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks ESL9595L1 LTO-1 Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks ESL9595S2 SDLT Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks ESL9595SL SDLT Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks MSL5026DLX DLT Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks MSL5026SL SDLT Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks MSL5026S2 SDLT Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks MSL5030L1 LTO-1 Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks MSL5052S2 SDLT Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks MSL5052SL SDLT Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks MSL5060L1 SDLT LTO-1 Tape Library	Vendor Specific	Nakoma Operating System CD
StorageWorks SSL2020 AIT Mini-Library	Vendor Specific	Nakoma Operating System CD
StorageWorks TL881 DLT Mini-Library	Vendor Specific	Nakoma Operating System CD
StorageWorks TL891 DLT Mini-Library	Vendor Specific	Nakoma Operating System CD
StorageWorks TL895 DLT Library	Vendor Specific	Nakoma Operating System CD

Table 5 lists supported ProLiant storage devices and controllers and drivers supported by Nakoma.

**Table 5. Supported ProLiant Storage Devices for Nakoma**

Option	Driver	Location
Compaq 4.3 – 145.6 GB Hard Disk Drives	CPQSHD.CDM	Nakoma Operating System CD
Compaq 64-Bit Dual Channel Wide-Ultra2 SCSI Controller card	CPQSCSI.HAM	Nakoma Operating System CD
Smart Array 53xx Controller	CPQRAID.HAM	Nakoma Operating System CD
Smart Array 532 Controller	CPQRAID.HAM	Nakoma Operating System CD
Smart Array 5312 Controller	CPQRAID.HAM	Nakoma Operating System CD
Smart Array 5i Controller	CPQRAID.HAM	Nakoma Operating System CD
Smart Array 641 Controller	CPQRAID.HAM	Nakoma Operating System CD
Smart Array 642 Controller	CPQRAID.HAM	Nakoma Operating System CD
StorageWorks MSA Fabric Switch	QL2300.HAM	Nakoma Operating System CD

Option	Driver	Location
Fibre Channel Host Controller /P (64-bit/66-MHz Fibre Channel Host Adapter)	CPQFC.NLM	Nakoma Operating System CD
hp StorageWorks FCA2210 Fibre Channel HBA for NetWare	QL2300.HAM	Nakoma Operating System CD
hp StorageWorks Modular SAN Array 1000	QL2300.HAM	Nakoma Operating System CD
hp StorageWorks Modular Array ma8000	CPQFC.HAM	Nakoma Operating System CD
hp StorageWorks Enterprise Modular Array ema12000/ema16000	CPQFC.HAM	Nakoma Operating System CD
hp StorageWorks Enterprise Virtual Array 3000/5000	QL2300.HAM	Nakoma Operating System CD
Smart Array 221, Smart Array 3200, Smart Array 431, 4200, Smart Array 4250ES, and Integrated Smart Array Controllers	CPQARRAY.NLM	Nakoma Operating System CD
64-bit/66MHz Single Channel Wide Ultra 3 SCSI Adapter	ADPT160M.NLM	Nakoma Operating System CD
64-bit/66MHz Dual Channel Wide Ultra 3 SCSI Adapter	ADPT160M.NLM	Nakoma Operating System CD
<b>Note:</b> Adapter support differs between server models. Please check the QuickSpecs for the server to determine adapter support.		

### Supported network interface controllers

Table 6 lists supported ProLiant network interface controllers (NICs) and drivers supported by Nakoma.

**Table 6. Supported ProLiant NICs for Nakoma**

NIC	Driver	Location
NC3120 Fast Ethernet	N100.LAN	Nakoma Operating System CD
NC3121 Fast Ethernet	N100.LAN	Nakoma Operating System CD
NC3122 Fast Ethernet	N100.LAN	Nakoma Operating System CD
NC3123 Fast Ethernet	N100.LAN	Nakoma Operating System CD
NC3131 Fast Ethernet	N100.LAN	Nakoma Operating System CD
NC3132 Fast Ethernet Upgrade Module	N100.LAN	Nakoma Operating System CD
NC3133 Fast Ethernet Upgrade Module	N100.LAN	Nakoma Operating System CD
NC3134 Fast Ethernet	N100.LAN	Nakoma Operating System CD
NC3135 Fast Ethernet Upgrade Module	N100.LAN	Nakoma Operating System CD
NC3162 Fast Ethernet (Embedded)	N100.LAN	Nakoma Operating System CD
NC3163 Fast Ethernet (Embedded)	N100.LAN	Nakoma Operating System CD
NC6132 Gigabit Module	N1000.LAN	Nakoma Operating System CD
NC6133 Gigabit Module	N1000.LAN	Nakoma Operating System CD
NC6134 Gigabit	N1000.LAN	Nakoma Operating System CD
NC6136 Gigabit	N1000.LAN	Nakoma Operating System CD
NC7131 Gigabit	N1000.LAN	Nakoma Operating System CD
NC7132 Gigabit Module	N1000.LAN	Nakoma Operating System CD
NC6770 Gigabit Server Adapter	Q57.LAN	Nakoma Operating System CD

NIC	Driver	Location
NC7760 PCI-X Gigabit Server LAN on the Motherboard (LOM)	Q57.LAN	Nakoma Operating System CD
NC7770 Gigabit	Q57.LAN	Nakoma Operating System CD
NC7780 PCI Gigabit Server LOM	Q57.LAN	Nakoma Operating System CD
<b>Note:</b> Adapter support differs between server models. Please check the QuickSpecs for the server to determine adapter support.		

## ProLiant cluster support

The following platforms support Nakoma Clustering:

- ProLiant CL380 Packaged Cluster
- ProLiant DL380 G2 Packaged Cluster
- ProLiant DL380 G3 Packaged Cluster
- ProLiant DL360 (all generations and speeds)
- ProLiant DL380 (all generations and speeds)
- ProLiant DL560
- ProLiant DL580 (all generations and speeds)
- ProLiant ML370 (G2 or later, all speeds)
- ProLiant ML530 (all generations and speeds)
- ProLiant ML570 (all generations and speeds)

## PCI Hot Plug support

HP and Novell jointly invented and introduced PCI Hot Plug technology. HP supports PCI Hot Plug with Nakoma on the following servers:

- ProLiant DL380 (G2 or later)
- ProLiant DL580 (all generations and speeds)
- ProLiant DL760 (G1 only)
- ProLiant ML370 G2 (all speeds)
- ProLiant ML530 G2 (all speeds)
- ProLiant ML570 (all generations and speeds)
- ProLiant ML750



## Limited SmartStart support

HP does not support the installation of Novell Beta software through SmartStart. Nakoma will be supported in the SmartStart release that most closely aligns with the official release date of Nakoma. Nakoma should be fully supported in SmartStart by late Summer 2003.

Detailed installation procedures will be given in the next section of this paper. For servers supported with SmartStart 5.50 or earlier, select the Manual Installation path and choose NetWare 6 as the operating system. This selection will allow the creation of the system partition on servers that do not support the ROM-Based Setup Utility (RBSU). After the system partition has been installed, follow the instructions in the Performing a new installation section to install Nakoma.

For servers that use RBSU in place of the system partition, do not perform a SmartStart installation. Instead, use RBSU to configure the system for NetWare 6, and then follow the instructions in the next section to install Nakoma.

The ProLiant servers listed below use RBSU instead of the System Configuration Utility to configure the hardware and select the operating system. SmartStart will not be used to install Nakoma on these systems.

<u>ProLiant DL servers</u>	<u>ProLiant ML servers</u>
ProLiant DL360 G2	ProLiant ML310
ProLiant DL360 G3	ProLiant ML330 G2
ProLiant DL380 G2	ProLiant ML350 G2
ProLiant DL560	ProLiant ML370 G2
ProLiant DL580 G2	ProLiant ML370 G3
ProLiant DL740	ProLiant ML370 G3
ProLiant DL760	ProLiant ML530 G2
	ProLiant ML750

## Server management using iLO or RILOE

Remote management of Nakoma can be performed on any supported server with Integrated Lights-Out (iLO) or an installed Remote Insight Lights-Out Edition (RILOE) or Remote Insight Lights-Out Edition II (RILOE II) card.

Detailed information on configuration and operation for each product can be found in each product's user guide available here:

- For iLO:  
<http://h18013.www1.hp.com/products/servers/management/ilo/documentation.html>
- For RILOE:  
<http://h18013.www1.hp.com/products/servers/management/remote-lightsout/documentation.html>
- For RILOE II:  
<http://h18013.www1.hp.com/products/servers/management/riloe2/documentation.html>

## Installation procedures

The section that follows contains procedures for installing Nakoma as a new installation only. Upgrades and migrations from previous versions of NetWare are not covered in this paper.

### Preparing for a new installation

For servers that do not support RBSU, secure a copy of SmartStart 5.50 or earlier. This version will be used to configure the hardware and install the system partition prior to the Nakoma installation. SmartStart 6.00 or later does not provide a system partition installation utility.

### Performing a new installation



**IMPORTANT:** Installing Nakoma in a production environment is not recommended. Nakoma testing should only be performed in isolated test environments.

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Use the following steps to install Nakoma on supported HP ProLiant servers. Read the entire sequence completely before you begin.

1. Select a supported platform from the server platforms listed in Table 2.
2. Inspect the system to confirm that it meets the minimum RAM and disk space requirements needed for installation.
3. Use SmartStart or RBSU to configure the hardware for your server.
  - If using RBSU, perform the following steps:
    - a. Power on the server, and press **<F9>** to begin RBSU setup.
    - b. From the Operating System menu, select **NetWare 5.x/6.x** as the operating system.
    - c. After selecting NetWare 5.x/6.x as the OS, choose and/or verify the boot controller setting.
    - d. Select the Date/Time option and ensure the proper time is set on the server. This setting will prevent eDirectory timesync problems after installation.
    - e. Press **<Esc>** to exit. When prompted, press **<F10>** to exit RBSU.
    - f. For servers with array controllers, select **<F8>** during the server reboot to begin the configuration of the array controller using Option ROM Configuration for Arrays (ORCA).

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**Note:** Older array controllers do not support ORCA, and should be configured using the Array Configuration Utility (ACU) found on the SmartStart CD. Servers with SCSI controllers do not require any additional configuration.

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- g. Insert the Nakoma Operating System CD, and exit ORCA.
- h. Proceed to step 4.

- To configure the hardware using SmartStart (non-RBSU systems only), perform the following steps:
  - a. Boot the SmartStart for Servers CD (version 5.50 or earlier only).
  - b. If the SmartStart license agreement appears, skip to step f below. If the SmartStart utilities screen appears, proceed to step c.
  - c. From the SmartStart utilities screen, choose the option to erase the system.
  - d. Follow the prompts to erase the system and power off the system.
  - e. Reboot the system and proceed to step f.
  - f. When prompted, accept the license agreement.
  - g. Select **Manual Installation**.
  - h. Select **NetWare 6** as the operating system.
  - i. Allow the system to reboot to configure the array controller (if installed). Configure the array controller to suit the needs of your particular installation. HP recommends creating an array of at least 2 GB to contain the DOS partition and the SYS: volume.
  - j. Allow the system to reboot to install the system partition.
  - k. Configure the remainder of the system settings to suit the needs of your particular installation.
  - l. When prompted to insert the NetWare 6 CD and license, insert the Nakoma Operating System CD, but do not press Enter or click OK. The Nakoma license is located on the CD; a separate license diskette is not required.
  - m. After inserting the Nakoma Operating System CD, power the server off and then back on to start the Nakoma installation process.
- 4. When the Nakoma CD has booted, install Nakoma as you would install NetWare 5.1 or NetWare 6, using the following procedure.

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**Note:** After booting the Nakoma CD, if an existing NetWare installation is detected a message will appear prompting you to either (I) Install or (R) Run NetWare. Choose option I so that the existing installation will be replaced.

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- a. Select the proper regional settings for your location.
- b. Accept the Nakoma and Report Runtime license agreements.
- c. Select **Custom** as the installation type. HP has seen problems with the Express installation path and advises against using this path for installation.

- d. Create a Boot Partition.
  - Select **Modify** to create a boot partition.
  - Select **Free Space**, and press **Enter**.
- e. Confirm the Server settings shown.
- f. The Nakoma installation will begin the preliminary DOS file copy. When complete, select and load the proper drivers for the following subsystems:
  - Platform Support Module (PSM) – ACPIDRV.PSM

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**Note:** CPQACPI.PSM has been discontinued for Nakoma. Novell's ACPIDRV.PSM has been modified to include the functionality from CPQACPI.PSM.

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  - Hot Plug Support Module – CPQSBD.NLM
  - Storage Adapters – varies by server model
  - Network Adapters – varies by server model
- g. Create the SYS: volume. The default is 4 GB, which is a satisfactory size for most installation types.

The Nakoma installation will begin the system file copy and will load the Installation GUI when complete.

- h. When the GUI loads, you have the option to choose a server type based upon the anticipated use of the server. This option is called a Pattern Deployment, which customizes certain settings during installation to optimize the server for the pattern selected. Unless you are testing a specific pattern type, HP recommends selecting Basic NetWare File Server.
- i. Review the summary screen to ensure that you meet the minimum hardware requirements for the selected server pattern type.
- j. When prompted, insert the Nakoma Products CD. The required license files are on the Nakoma Products CD at \\nw65prod\license\mla.
- k. Select the Network Protocols for the installed network cards. IP and/or IPX can be selected from the main screen. Advanced settings can be entered by selecting the **Advanced** tab from the Main screen.
- l. If desired, enter the server DNS host name and the Name Server IP Address. This information is optional and can be skipped if DNS is not used on this network.
- m. Select the proper time zone for the server installation.
  - Ensure that the proper time has been configured on the system prior to Nakoma installation. This setting will prevent eDirectory timesync issues after installation.

- n. Select the proper eDirectory installation type.
  - Install in New Tree – used if this is the first server on the eDirectory tree
  - Install in Existing Tree – used if this server will be installed into an existing eDirectory tree.

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**Note:** HP recommends installing Nakoma in isolated test environments only.

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- o. Ignore the prompt to install any additional licenses, as they are unnecessary for public beta testing.
- p. Enter the appropriate MLA License Certificate context.
- q. Enter the appropriate LDAP Configuration information.
  - For Clear Text, the default port is 389.
  - For SSL/TLS, the default port is 636.
- r. Enter the appropriate NMAS Login Method. NDS is the default.

The Nakoma install will now present a summary screen of the installation choices.

- s. Select **Finish**, and the final file copy will begin.
- t. When prompted, remove the Nakoma media from the server CD-ROM drive, and select **Yes** to reboot the server. After the server has rebooted, the installation is complete and the server is functional.

## Support limitations

This section details the known issues with running Novell NetWare 6.5 on ProLiant servers and provides information about resolving them.

**Table 7. Known Issues**

### Known issues with Nakoma media

Issue 1	Problem with N100.LAN loading with some server ROMS
Description	N100.LAN may fail to load on some ProLiant servers with down-level ROM revisions.
Workaround	See solution.
Solution	Download and flash the server ROM to the latest revision. To download the latest server ROMs, visit <a href="http://h18023.www1.hp.com/support/files/server/us/romtabl.html">http://h18023.www1.hp.com/support/files/server/us/romtabl.html</a> .

<b>Issue 2</b>	
Problems with Express Installation path	
Description	Express Installation path does not work.
Workaround	Select <b>Custom Installation</b> instead.
Solution	Novell is working on a fix for the Express Installation path for the final product release.
<b>Issue 3</b>	
Problem with network (across the wire) installations	
Description	The default PSM will not initialize and load during a network installation.
Workaround	Complete the installation using the MP PSM; use <i>MPS14.PSM</i> instead of <i>ACPIDRV.PSM</i> . <i>MPS14.PSM</i> is located on the Nakoma Operating System CD in the \Drivers\PSM directory.
Solution	Novell has released Technical Information Document (TID) #2965742 to cover this issue. The TID can be viewed at <a href="http://search.novell.com/NSearch/SearchServlet?template=ResultListTerseTemplate.html&amp;numhits=20&amp;theme=support&amp;query=2965742&amp;collection=Support">http://search.novell.com/NSearch/SearchServlet?template=ResultListTerseTemplate.html&amp;numhits=20&amp;theme=support&amp;query=2965742&amp;collection=Support</a> .
<b>Issue 4</b>	
Problems with Java/GUI when using USB devices	
Description	Java/GUI can hang (before, during, or after GUI portion of the installation) when using USB devices.
Workaround	Do not use USB devices due to unpredictable behavior.
Solution	Novell is working on a fix to their USB code to resolve this issue.
<b>Issue 5</b>	
Problems with NSS Management Utility	
Description	There are some problems with Novell's new NSS Management Utility (NSSMU), which is used to configure Software RAID. HP has seen unpredictable behavior with this utility, such as devices, pools, and volumes appearing incorrectly.
Workaround	Do not use Software RAID.
Solution	Novell is working to fix the issue with NSSMU.
<b>Issue 6</b>	
Problems with DOS	
Description	HP has seen some issues with DOS during and after installation. In some cases, the Nakoma installation does not properly land the DOS partition, leaving the server in a state where the installation cannot be completed.
Workaround	If this problem is experienced during Nakoma installation, erase the server and follow these steps as a workaround:  1. Perform a NetWare 6 installation to configure the DOS partition.

Workaround (continued)	<ol style="list-style-type: none"> <li>2. Allow the installation to continue until the preliminary file copy has completed.</li> <li>3. When prompted to load drivers, press <b>Alt   F10</b> to exit the installation.</li> <li>4. Power down and reboot the server with the Nakoma Operating System CD inserted. After the server boots to DOS, NetWare 6 will attempt to load.</li> <li>5. When prompted, select <b>I</b> to install a new server (the default choice is "R" to run the existing installation).</li> <li>6. During the Nakoma installation, keep the existing DOS partition created by the NetWare 6 installation, but allow the Nakoma installation to overwrite the files in c:\nwserver when prompted.</li> </ol>
Solution	There is no solution at this time.
<b>Issue 7</b>	<b>Problems with Nakoma CD licenses</b>
Description	Some licenses on the Nakoma Products and Operating System CDs have been problematic.
Workaround	HP recommends using the MLA license provided on these CDs for best results.
Solution	Novell will release different licenses when the product ships.
<b>Issue 8</b>	<b>Changes with DOS partition</b>
Description	Novell has changed the method to mount the DOS partition as a NetWare volume.
Workaround	To mount the DOS partition as a NetWare volume, use the command "load DOSFAT.NSS" at the server console.
Solution	None needed as this is the desired functionality.
<b>Issue 9</b>	<b>Problems selecting Install All Products</b>
Description	HP has encountered issues when selecting Install All Products or selecting Pattern Deployments.
Workaround	Best results have been seen when using a Custom installation and adding only iManager and Apache Web Server to the base components.
Solution	Novell is working on fixes for these issues.

<b>Issue 10</b>	
<b>Problems with MEGARIDE.HAM</b>	
Description	MEGARIDE.HAM fails to autoload on the appropriate systems, and IDEATA.HAM is being loaded by the Novell installer instead.
Workaround	Deselect the IDEATA.HAM driver listed as a RAID controller (usually in slot 10003), and manually select the MEGARIDE.HAM driver during the driver selection process.
Solution	HP is working with Novell to fix the issue in their loader module.
<b>Issue 11</b>	
<b>Problems with Mouse Functionality</b>	
Description	When installing or running Nakoma on a server with the Remote Insight Board installed, you may get a mouseless message and have no mouse functionality from the Servers GUI.
Workaround	Use the mouseless method as described by the pop-up window in the GUI.
Solution	Updated firmware and OS fixes should resolve this issue upon the release of the final OS.

## Support delivery

HP is not providing technical support for the Public Beta release of Nakoma. Issues regarding Nakoma on ProLiant servers can be emailed to the HP Novell Partnership Engineering team at [Nakoma.Beta@hp.com](mailto:Nakoma.Beta@hp.com). Replies will be provided on a best effort basis.

Novell is providing support for the Nakoma Public Beta, and in most cases, will be the fastest source of problem resolution. Issues reported to Novell that appear to be related to HP hardware will be forwarded by Novell to HP for consideration and resolution.



## For more information

For more information about the Nakoma Public Beta, visit the HP Novell Partnership website at <http://h18000.www1.hp.com/products/servers/software/novell/index.html> and the Novell website ([www.novell.com](http://www.novell.com)).

Other helpful resources are detailed in Table 8.

**Table 8. Web Resources**

Resource title	Web location
Latest SmartStart information	
Latest SmartStart home page	<a href="http://www.hp.com/servers/smartstart">www.hp.com/servers/smartstart</a>
<b>White paper:</b> "hp launches a redesigned SmartStart"	<a href="ftp://ftp.compaq.com/pub/products/servers/management/smartstart/SS-6-Transition-WP.pdf">ftp://ftp.compaq.com/pub/products/servers/management/smartstart/SS-6-Transition-WP.pdf</a>
<b>Installation guide:</b> "ProLiant Essentials Foundation Pack, hp SmartStart"	<a href="ftp://ftp.compaq.com/pub/products/servers/management/smartstart/webposter-ss6.pdf">ftp://ftp.compaq.com/pub/products/servers/management/smartstart/webposter-ss6.pdf</a>
SmartStart 5.50 resources	
SmartStart 5.50 home page	<a href="http://h18013.www1.hp.com/products/servers/SmartStart/index.html">http://h18013.www1.hp.com/products/servers/SmartStart/index.html</a>
SmartStart 5.50 installation guide	<a href="ftp://ftp.compaq.com/pub/products/servers/management/webposter.pdf">ftp://ftp.compaq.com/pub/products/servers/management/webposter.pdf</a>

## Feedback

Help us improve our technical communication. Let us know what you think about the technical information in this document. Your feedback is valuable and will help us structure future communications. Please send your comments to: [OSIntegrationFeedback@hp.com](mailto:OSIntegrationFeedback@hp.com).

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