

HP NetServer E 200 Network Operating System Installation Guide

For:

**Microsoft Windows NT 4.0 Server
Microsoft Windows 2000 (Server and Advanced Server)
Microsoft Small Business Server 4.5**

**Novell NetWare 5.1
Novell NetWare SB Small Business 5.0**

Red Hat Linux 6.1



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Hewlett-Packard Company
Network Server Division
Technical Communications/MS 45SLE
10955 Tantau Avenue
Cupertino, California 95014 USA

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1 Microsoft Windows NT 4.0 Server Installation Guide for the HP NetServer E 200

This section was created January 28, 2000.

Section 1. Hardware Requirements for Installation

Prepare your NetServer following the instructions in the E 200 Installation Guide.

It is recommended that you do not install any third party adapters until you verify that the Hewlett-Packard equipment is functioning properly and you complete the Windows NT installation.

To avoid problems use only hardware that appears on the Windows NT Hardware Compatibility List. (HCL) You can access the latest HCL via Microsoft's Web site at

<http://www.microsoft.com/ntworkstation/>

Section 2. Create the E 200 Drivers Diskettes

Your system includes an HP Startup CD. Boot your system from the CD and follow the on-screen instructions to create two Windows NT 4.0 Drivers Diskettes and two HP Diagtools Diskettes.

- Drivers Diskette #1 – SCSI and LAN drivers
 - A: \SCSI – Drivers for HP SCSI card
 - A: \NICDRV – Drivers for HP LAN card
- Drivers Diskette #2 – High resolution video drivers
 - A: \VIDEO – Drivers for HP video card

Section 3. Create Microsoft Windows NT Installation Diskettes

Three installation diskettes are required to install Microsoft Windows NT 4.0 on your server. Follow these steps to create these installation diskettes:

1. Locate three blank, formatted 3.5" diskettes.

2. Insert your Microsoft Windows NT 4.0 CD-ROM into a desktop PC.
3. From a DOS prompt, type: `CD-ROM:\i386\winnt32 /ox`
4. Follow the prompt and insert the diskettes in the order described.

Section 4. Perform Manual Windows NT Installation

The installation of Windows NT contains five phases.

- Phase 0 – Run Diagnostics (Optional)
- Phase 1 – Driver Installation
- Phase 2 – Hard Drive Preparation
- Phase 3 – System Configuration Details
- Phase 4 – Completing the Installation

NOTE	Do not try to install Windows NT 4.0 via booting from the Windows NT CD-ROM. This method of installation does not work properly. The installation procedure will prompt you to insert the Windows NT CD-ROM at a later time.
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PHASE 0 – Run Diagnostics (Optional)

Once the E 200 hardware is installed, boot the system from the DiagTools Diskette that was created from the HP Startup CD to run the hardware diagnostic and to save/view the hardware inventory.

PHASE 1 – Driver Installation

1. Insert the Windows NT Setup/Boot Diskette #1 and boot the system.
2. Replace the diskette when prompted and press Enter.
3. Press Enter at the first menu to setup Windows NT.
4. If the system has a SCSI HDD :
 - ◇ Press **S** to "Skip mass storage detection and manually select SCSI adapters"
 - ◇ Press **S** again to "Specify additional SCSI adapters". The Windows NT installer will display a scrolling list of options.

- ◇ Select "Other (Requires Disk provided by a hardware manufacturer)."
 - ◇ When prompted to insert the "Manufacturer-supplied hardware support disk", insert the E 200 Drivers Diskette #1 (SCSI/LAN) into floppy drive A:.
 - ◇ Select the "HP 2940/78xx SCSI Driver" by pressing Enter.
5. Press **S** again to install the IDE CD-ROM driver.
 6. Press the up arrow key to view more driver selections.
 7. Select the "IDE CD-ROM (ATAPI 1.2)/PCI IDE Controller" driver by pressing enter.
 8. Replace the diskette when prompted to do so.
 9. Ensure that both the SCSI and CD-ROM drivers are loaded. The installation will not be successful if these two drivers are not properly installed. If you have any more mass storage device drivers to install, you may do so at this time by pressing **S**. When completed, press the Enter key to continue.

PHASE 2 – Hard Drive Preparation

1. Press Enter to continue if you are warned about your hard disk containing more than 1024 cylinders.
2. Depending on the previous state of your hard drive, you may need to press **C** to continue with the installation when prompted.
3. Insert the Windows NT CD-ROM when prompted.
4. Read the Licensing Agreement and agree to continue the installation.
5. The Windows NT Server Setup Screen will display the system hardware and software components. Press Enter if the configuration matches your computer.
6. The setup then shows a list of hard drives on your server, along with the partitions proposed on each drive. The default partition on which to install NT on the first drive (Drive 0) is highlighted. Select **C** to create a partition in the unpartitioned space.
7. Enter the appropriate size for your NOS partition. HP recommends 2000MB.
8. Press Enter to Install NT on the New (Unformatted) partition.
9. Select a file system format: FAT (DOS type file system) or NTFS (Windows type file system - recommended) for this NOS partition.

10. Specify the directory for Windows NT. Default = \WINNT.
11. Press Enter to have Setup examine your hard disks.
12. Insert the E 200 Windows NT Drivers Diskette when prompted.
13. Be sure to remove any floppies or CD-ROMs from their drives before restarting your computer.

PHASE 3 - System Configuration Details

Follow the on-screen instructions and complete all sections regarding system configuration details, i.e., server licensing, computer name, server role, administrator password, emergency repair disk, etc.

1. When you reach the Network Adapters screen, do **NOT** select Start Search. Instead, select "Select from list..."
2. Select the "Have Disk" button when given a list of Network Adapter drivers.
3. Insert the "HP E 200 Windows NT Drivers Diskette #1" and type the following in the path: A:\NICDRV
4. Select the "HP 10/100TX PCI LAN Adapter" and press OK.
5. Follow the on-screen instructions to complete the installation

PHASE 4 – Completing the Installation

1. Choose "Finish" at the window titled "Step 3, Finishing Setup"
2. Set the Time, Date, and Time Zone.
3. Be sure to check the box "Automatically adjust for daylight saving changes".
4. You will be notified that standard VGA video drivers have been installed. Do not attempt to install the HP high resolution video drivers at this time. A service pack must be installed first after the NT installation is complete.
5. Remove all floppies and CD-ROMs from their drives and reboot the system when prompted.
6. Install Service Pack #3 or later after completing the basic installation.

NOTE	When installing the service pack, answer 'NO' when prompted to overwrite driver files. You do not want to overwrite the driver files that you installed from your Drivers Diskettes with the files on the service pack CD.
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You can get a copy of Windows NT 4.0 Service Packs from Microsoft Support, (800) 936 5900 or (800) 426 9400 or <http://www.microsoft.com>.

7. The Microsoft Windows installation process has installed the standard VGA video driver. If you would like to make use of the high resolution video driver, follow these steps:

Ensure Service Pack #3 is installed. This is a REQUIREMENT.

From the Start menu, select Settings, Control Panel, and Display.

Under the Settings tab, click **Display Type**.

Click **Change** and **Have Disk**.

Insert the E 200 Drivers Diskette #2 and type "**A:** \VIDEO" in the path.

After the installation, be sure to "Test" your new video drivers by clicking on the "Test" button. You may want to set other video display modes: color palette, desktop area, font size, and refresh frequency rate. Ensure the settings you choose are supported by your monitor circuitry.

Your installation is now complete. Remove all floppy disks and CD-ROMs. Restart your computer.

Troubleshooting Tips and Tricks

This section will help you resolve some of the most common installation problems.

Tip #1. Troubleshooting SCSI Host Bus Adapter Configuration

The boot manager for Windows NT contains recovery logic to allow you to return to the last known good configuration. If you have changed your SCSI host bus adapter configuration and Windows NT no longer boots, follow these steps to recover:

1. Undo any hardware changes you have made to the computer since it was last operational.
2. Reboot the computer. Press the spacebar when the message "Press spacebar NOW to invoke the Last Known Good menu." Appears. Follow the instructions on the screen to continue booting.

NOTE	Do not log in if you pass the "Press spacebar NOW to invoke the Last Known Good screen" option, because this will wipe out the configuration you want.
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3. Once your computer is operational again, double check all the hardware and software configuration changes you wish to make. Look specifically for conflicts with parts of the existing system configuration that are not being changed. If you cannot determine the source of the error, contact the host adapter vendor or HP Technical Support for assistance.

Tip #2. Extended Translation

In order to boot from hard drives with capacity greater than 1GB, the Extended Translation for SCSI controller needs to be enabled. Otherwise, the maximum boot partition is limited to 1GB. Make sure to enable Extended Translation for additional SCSI controllers that you may choose to install. For most SCSI controllers the "Extended Translation option" can be enabled from SCSI-Select menu. SCSI-Select is available by pressing Ctrl-A during system boot.

Tip #3. NT Warning About Drives with More than 1024 Cylinders During Boot

If the boot drive is new or just initialized, Windows NT may give a warning message about disk drives having more than 1024 cylinders during the first reboot from the hard drive. Windows NT may hang just after the SCSI BIOS or Disk Array BIOS banner. This is a Windows NT limitation, please see Microsoft TechNet article # Q137474 for details.

Fix: In some situations, the Windows NT installation program may detect the hard drive geometry incorrectly, and thus limit the initial drive partition size to 1024 MB or hang while rebooting. To correct this problem, perform the following solutions:

In the Windows NT installation program:

1. Partition the primary partition to 1024 MB.
2. Format the primary partition using FAT.
3. Press F3 to quit the installation program.
4. Restart the installation program.
5. At the drive partition screen, delete the 1024 MB primary partition.
6. Partition the primary partition to any desired size up to the drive capacity.
7. Continue with the Windows NT installation program.

Tip #4. Service Pack Files Replaced Without Feedback

Some system configuration changes may ask you to install the original Windows NT drivers diskette. This may cause some system files to be replaced with the old version. It is recommended that if you make any changes that you apply the service pack again.

Tip #5. Using the NT Event Log to Diagnose Network Adapter Problems

If the Network Adapter driver fails to start or does not appear to be working correctly, examine the Event Log for any driver diagnostic messages.

1. Start the Event Viewer applet in the Administrative Tools group in Program Manager.
2. Search the Event Log Source column for any entries named "Hptx."

3. Double-click on the entry to examine the Event Detail dialog box. The upper half of the box gives a short generic description of the error. The lower half of the box is a hex and ASCII dump of error data.
4. Scroll through the error data in ASCII for any readable strings.
5. If a readable string is present, it will describe the problem in more detail.
6. If no readable string is present, this typically indicates that the driver failed early in the process of loading-usually due to a resource conflict (for example, an I/O port conflict).

NOTE Make sure the Network Adapter is connected to a working hub and verify that the LED is lit. Otherwise, the Network Driver may not install.

Tip #6. Booting from Another PCI SCSI HDD

To boot Windows NT from another SCSI hard disk, press Ctrl-A during system boot to enter SCSI-Select menu. In this menu, configure the SCSI Hard Drive Priority option (in the Boot Device Ordering menu. For most Adaptec SCSI controllers the "Extended Translation option" can be enabled from SCSI-Select is available by.

On-Line Information and Software Sources

HP NetServer World Wide Web access: <http://netserver.hp.com/netserver/>

Microsoft World Wide Web access: <http://www.microsoft.com>

Microsoft Product Support Services: <http://support.microsoft.com/directory/>

Windows NT Automated Database: Advanced Systems at (800) 936-4400

Microsoft Software BBS: 206-936-6735 (14,400 bps)

2 Microsoft Windows 2000 Server and Advanced Server Installation Guide for the HP NetServer E 200

This section was created January 27, 2000.

Section 1. Hardware Requirements for Installation

Prepare your NetServer following the instructions in the E 200 Installation Guide.

It is recommended that you do not install any third party adapter until you verify that the Hewlett-Packard equipment is functioning properly and you complete the Microsoft Windows installation.

Section 2. Create the E 200 Drivers Diskette

Your system includes an HP Startup CD. Boot your system from the CD and follow the on-screen instructions to create two Drivers Diskettes and two HP Diagtools Diskettes.

- Drivers Diskette #1 – SCSI and LAN drivers
 - A:** \SCSI – drivers for HP SCSI card
 - A:** \NICDRV – drivers for HP LAN card
- Drivers Diskette #2 – High resolution video drivers
 - A:** \VIDEO – drivers for HP video card

Section 3. Perform Manual Windows 2000 Installation

The installation of Windows 2000 contains five phases.

- Phase 0 – Run Diagnostics (Optional)
- Phase 1 – Driver Installation
- Phase 2 – Hard Drive Preparation
- Phase 3 – System Configuration Details

- Phase 4 – Completing the Installation

PHASE 0 – Run Diagnostics (Optional)

Once the NetServer hardware is installed, boot the system from the DiagTools Diskette that was created from the Startup CD to run the hardware diagnostic and to save/view the hardware inventory.

PHASE 1 – Create Boot Diskettes

1. You need four blanked, formatted diskettes. Label them as listed below:
Windows 2000 Setup Boot.
Windows 2000 Setup Disk #2.
Windows 2000 Setup Disk #3.
Windows 2000 Setup Disk#4
2. Place the Windows 2000 CD on a system running Windows NT or Windows 95.
3. Open a command prompt and change to the d:\bootdisk directory assuming that D: is your CD-ROM.
4. At the command prompt type:
makebt a :
(If using a DOS or Win 9X system)

makebt32 a :
(If using an NT system)
5. Follow the instructions provided by the utility on the display.

PHASE 2 – Installing Windows 2000 from Diskette

1. Boot from the "Windows 2000 Setup Boot" diskette. Follow instructions provided on the display to replace the diskette.

PHASE 3 – Installing Windows 2000 – Booting from CD-ROM.

1. Place the Windows 2000 CD-ROM in the drive. Power off and on to reboot system. The system displays "Setup is inspecting your hardware configuration.". Next, it will then switch to a blue screen.
2. If you have new drivers to add then press F6 to add OEM SCSI, DAC. Read the message that shows at the bottom of the display indicating when to press F6.
3. Press Enter to continue at the "Windows 2000 Server Setup. Setup Notification..." screen.

4. Press Enter to continue at the "Windows 2000 Server Setup. Welcome to Setup..." Screen.
5. Press F8 to accept the licensing agreement.
6. Press **C** to continue Setup at the "Setup has determined that your computer's startup hard disk is new..."
7. At the drives partitioning screen, select the target drive. If you want to use the entire drive to install Windows 2000 then press Enter. Otherwise, press **C** to create a drive a partition.
In this example we will create a 2GB partition. Please note that Windows 2000 does not have the 2GB limitation present on NT 4.0
Press **C** to create a partition.
8. At the "Create partition size" prompt, type **2048** and press Enter.
9. It is recommended that you create all the partitions needed for each hard drive present on your system.
10. Select the target drive to be used to install Windows 2000. Press Enter.
11. Select "Format the partition using the NTFS file system" and press enter.
12. The installer will format and copy files to the hard drive. The system will reboot
13. At the Installation Wizard first dialog box, click **Next** to continue.
14. The "Installing Devices" screen will be shown with a progress bar on the display. This may take 10 to 15 minutes.
15. Click **Next** at the regional Settings screen.
16. At the "Personalize Your Software" screen type the following:
Name: ...
Organization: ...
Click **Next**.
17. Click the **Per Seat** radio button.
18. Click **Next**.
19. At the "Computer Name and Administrator Password" type the following information:
Computer Name: ...
Administrator password: ...
Confirm password: ...
Click **Next**.
20. Click **Next** at the Windows 2000 Component screen.

21. Enter the proper date and time and Click **Next**.
22. The Networking Setting screen starts with a progress bar chart.
23. Click **Next** to accept the default "Typical settings."
24. Click **Next**. At the "Workgroup or Computer Domain" to accept the default:
No, This computer is not on a network, or is on a network without a domain...
Workgroup or computer domain: WORKGROUP.
25. The "Installing Components Display" screen starts with a progress bar chart. It takes about 15 minutes to complete this section. The wizard will also start the "Performing Final Tasks" section to complete the installation.
26. Click **Finish** to complete the installation. Remove the CD-ROM from the drive. The system will reboot from the hard drive.
27. It may take a long time with no activity after it displays a message that reads "OS Loader Version 5.0".
28. Follow screen instructions to logon. Enter user-id and password.

Section 4. On-Line Information and Software Sources

HP NetServer World Wide Web access: <http://netserver.hp.com/netserver/>

Microsoft World Wide Web access: <http://www.microsoft.com>

Microsoft Product Support Services: <http://support.microsoft.com/directory/>

Windows NT Automated Database: Advanced Systems at (800) 936-4400

Microsoft Software BBS: 206-936-6735 (14,400 bps)

3 Microsoft NT Small Business Server 4.5 Installation Guide for the HP NetServer E 200

This document was created January 27, 2000.

Section 1. Hardware Requirements for Installation

Prepare your NetServer following the instructions in the E 200 Installation Guide.

It is recommended that you do not install any third party adapter until you verify that the Hewlett-Packard equipment is functioning properly and you complete the Microsoft Windows installation.

Section 2. HP E 200 NetServer Diskette

Your system includes an HP Startup CD. Boot your system from the CD and follow the on-screen instructions to create two Drivers Diskettes and two HP Diagtools Diskettes.

- Drivers Diskette #1 – SCSI and LAN drivers
 - A:** \SCSI – drivers for HP SCSI card
 - A:** \NICDRV – drivers for HP LAN card
- Drivers Diskette #2 – High resolution video drivers
 - A:** \VIDEO – drivers for HP video card

Section 3. Perform NT SBS 4.5 Installation

1. Using the setup disks supplied with Windows NT SBS, insert diskette #1 to boot the system. While loading the first setup disk, when the message "Setup is inspecting your hardware configuration..." is displayed, press F6.
2. Insert Diskette #2 when prompted.
3. Press **S** to skip detection of devices.
4. Press the up arrow key to select IDE CD-ROM (ATAPI 1.2)...
5. Select **S** to specify additional device.

6. Insert **Diskette 3** when prompted.
7. Press Enter to continue.
8. Press **S** to specify additional device.
9. Select **Other** and press Enter.
10. Insert the NetServer SCSI driver's diskette at the prompt that reads "Please insert the diskette labeled Manufacturer - supplied hardware support disk into drive A:"
11. Press enter to continue. Select "Hewlett-Packard 2940/78xx SCSI driver.." and press Enter.
12. Press Enter to finish the device configuration and continue with the installation.
13. Insert diskette 3 and follow the instructions provided on the screen by the installer.
14. If SBS CD-ROM disk1 is not mounted you will be asked to mount it now.
15. Verify system configuration: Keyboard, Mouse etc.
16. Select The above list matches my computer and press Enter.
17. Partition disk as needed. Please note that SBS requires a lot of free space for additional products. It is recommended that you create all drive partitions required now. This will prevent having to change the CD-ROM drive letter after the installation is completed.
18. If prompted, Insert the **SCSI driver** diskette.
19. Select the target partition for the installation and press Enter.
20. Choose `Format NTFS`.
Note: SBS 4.5 requires NTFS.
21. Setup begins to copy files to your hard disk.
22. When prompted insert the E 200 Driver diskette created with the HP Startup CD.
23. Setup continues to copy more files to your hard disk. When done, **remove any diskette from the drive.**
24. SBS will display a message "Restarting the computer" at the bottom of the display.

25. The system will resume the NT Setup process. It will do a check disk, convert from FAT to NTFS and reboot. (You may see a support pack 3 message on the display when booting at this time.)
26. Enter user name, company.
Update Computer name, domain name if needed.
27. Click **Next** to continue.
28. Click **Next** at the Installing Windows Networking option.
29. Click **OK** at the Warning that reads "A setup parameter specified...".
30. Click **OK** at the Setup Message that reads "Remote access is not configured"
31. Click **Cancel** at the Error message that reads "The network failed to start (0x0000042a)". This will enable us to continue the installation and configure networking later on.
32. Configure the appropriate time zone. **The system will auto-reboot.**
33. If the "Control Manager Screen" warning that reads "At least one service or driver failed during system startup".is present, click **OK**.
34. Click **OK** if you get an error about creating Domain list.
35. Click **Next** at the Welcome to SBS 4.5 Setup Wizard to accept upgrade to Service Pack 4.
36. Click **I agree** to accept the license agreement.
37. Click **Next**.
38. Enter 10 digits CD Key.
39. Click **Next** at the installed modems screen.
40. Click **Yes** at the fax server dialog box to accept that the service will not be installer.
41. Hardware Confirmation screens shows the following:
One for video 640x480.
One IDE CD-ROM (ATAPI)
No NIC
(The NIC needs to be added next)
42. Click **Change**.
43. The control panel folder is now opened. Double-click **Network**.
44. Click **Adapters** tab.

45. If present, remove loopback adapter.
46. Click **Add**.
47. Click **Have Disk**.
48. Insert the Hewlett Packard "NT 4.0 Drivers diskette". Type the following path **a:\nicdrv** and Click **OK**.
49. Click **OK** to accept the default selection "HP 10/100 TX PCI Adapter".
50. Click **Close**.
51. Click **No** to restart system now.
52. Click the **Window Minimize** button. This is the symbol on top right of the windows frame to move the wizard to the task bar the wizard.
53. Close or hide the control panel application.
54. Notice that the "Display Properties" application is running on background.
55. Click **OK** at the invalid display setting dialog box.
56. Click **Display Type**.
57. Click **Change**.
58. Click **Have Disk**.
59. Insert the **VIDEO DRIVER** diskette.
60. Type **a:\video**.
61. Select **ATI 3D Rage IIC AGP**. (This is the default selection)
62. Click **OK**.
63. Click **Yes** at the third party dialog box.
64. At the dialog box that reads "Drivers were successfully installed," click **OK**.
65. Click **Close** to close the advanced video section.
66. At the display configuration panel, click **Close**.
67. Remove diskette from the floppy drive.
68. Click **Yes** to restart system now.
69. If present, Click **OK** at the "Service control manager" dialog box.
70. The system comes up with the setup wizard. Click **Next**. At the modem install panel.

71. Click **Yes**. To accept that there is no modem.
72. Click **Next** at the installed modems screen.
73. Click **Yes** at the fax server dialog box to accept that the service will not be installer.
74. Hardware Confirmation screens shows the following:
 - One IDE CD-ROM.**
 - One HP NetServer 10/100 PCI NIC.**
 - One video property: Current video resolution**
(Must be changed now)
75. Click **Change**.
76. Click **Window Minimize** button. This is the symbol on top right of the windows frame to move the wizard to the task bar the wizard.
77. Notice that the "Display Properties" application is running on background.
78. If present, move the control panel out of the way.
79. Click **OK** at "Invalid display setting" dialog box.
80. Set the desktop area to **800x600**.
81. Set Refresh frequency to **72Hz**, or any desired value.
82. Click **Test**.
83. Click **OK** at the "Testing mode" dialog box.
84. Click **Yes** if it passed the test. Otherwise, troubleshoot any issue.
85. Click **OK** to accept video settings.
86. The system now switches to new video settings.
87. Double-click **Hardware Confirmation Wizard ICON** on the taskbar.
88. Click **Next**.
89. The system will display "Start installation of Service Pack 4".
90. Remove any diskette. **System will restart**.
91. If present, click **OK** at the service control dialog box.
92. Click **Next** at "SBS 4.5 Will now continue. Set up will install your applications next"
93. Enter company information. Address, City, State, Zip.
94. Click **Next**.

95. Enter password.
96. Enter Microsoft ID 25 Characters code. (**available on Microsoft SBS CD-ROM**)
97. Click **Next**.

Section 4. On-Line Information and Software Sources

HP NetServer World Wide Web access: <http://netserver.hp.com/netserver/>

Microsoft World Wide Web access: <http://www.microsoft.com>

Microsoft Product Support Services: <http://support.microsoft.com/directory/>

Windows NT Automated Database: Advanced Systems at (800) 936-4400

Microsoft Software BBS: 206-936-6735 (14,400 bps)

4 Novell NetWare 5.1 Installation Guide for the HP NetServer E 200

This section created on January 19, 2000.

Section 1. Hardware Requirements for Installation

Prepare your NetServer following the instructions in the E 200 Installation Guide.

It is recommended that you do not install any third party adapter until you verify that the Hewlett-Packard equipment is functioning properly and you complete the Novell NetWare installation.

Section 2. HP E 200 NetServer Drivers Diskette

Your system includes a Startup CD. Boot your system from the CD and follow the on-screen instructions to create two HP Diagtools Diskettes and one Novell NetWare Drivers Diskette.

- Drivers Diskette – SCSI, CD-ROM, and LAN drivers
 - A:** \SCSI – drivers for HP SCSI card
 - A:** \NICDRV – drivers for HP LAN card
 - A:** \IDECDROM – IDE CD-ROM driver

Section 3. Perform Manual NetWare 5.1 Installation

The manual installation of Novell NetWare contains two phases.

- Phase 0 – Run Diagnostics (Optional)
- Phase 1 – Driver Installation

NOTE	If your hard drive contains data or is not new, HP recommends to use a utility, such as fdisk, to erase all data and partitions from your hard drive.
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PHASE 0 – Run Diagnostics (Optional)

Once the NetServer hardware is installed, boot the system from the DiagTools Diskette that was created from the HP Startup CD to run the hardware diagnostic and to save/view the hardware inventory.

PHASE 1 – Driver Installation

1. Insert the Novell NetWare 5.1 CD-ROM and boot the system.
2. Read the license agreement and select "Accept License Agreement".
3. Choose to "Create a New Boot Partition".
4. HP recommends accepting the default 100MB boot partition by selecting "Continue". Your system will now create the partition, reboot, and format that partition.
5. Choose **Continue** after selecting the option: 'A new server.'
6. Modify or accept the default country, code page, keyboard, mouse and video settings.
7. Now the installation program will detect hardware and attempt to match the drivers to the hardware. You will see a driver summary screen. Under "Hot plug support module" verify it displays "optional" because Hot Plug PCI is not supported on this HP NetServer. Under the "Options" menu, choose **Modify** and press Enter.
8. Highlight the **Storage Adapters** item and press Enter.
9. IDEATA, AHA2940.HAM, AHA2950.HAM will be listed as drivers. Highlight each AHA2940.HAM driver and delete them by pressing the Delete key on your keyboard. The only remaining driver should be the IDEATA.HAM driver. You will now supply your own AHA2940 drivers from the HP supplied drivers diskette.
10. Insert the HP NetServer E 200 drivers diskette in the floppy drive. Press the Insert key on your keyboard to add a driver.
11. Press the Insert key again to add a driver which is not listed.
12. Press F3 and specify the path: **A: \SCSI** and press Enter. This process will take a few seconds to process.
13. The installation program will detect the PCI SCSI hardware and it will add the AHA2940.HAM driver from the drivers diskette.
14. To edit the drivers listed under Network boards, select "**Return to driver summary**". Press **Continue** to leave the storage adapters driver setup.

15. From the Drivers Summary screen, choose **Modify** and highlight the "**HPTX**" and "**CHPTX**" driver which was auto-detected by the installation program. Delete this driver by pressing the Delete key.
16. Insert the HP NetServer E 200 NetWare drivers diskette. Press the Insert key.
17. Press the Insert key again to add a driver not listed.
18. Press F3 and specify the path: **A:\nicdrv**
19. Choose "**CHPTX.LAN**" and press Enter.
20. Choose "**Return to driver list**". Under the "Additional driver options" menu, select "**Return to driver summary**". Highlight **Continue** and press Enter again.
21. The installation program will now enter a JAVA GUI application. Follow the instructions on-screen to continue with the installation. You will enter items such as server name, time zone, NDS information, etc.
22. Insert the NetWare licensing diskette when prompted.
23. After the NetWare 5.1 installation is complete, you should install the latest support pack from Novell. Support Packs can be found at:
<http://www.support.novell.com/csp/>

Section 4. On-Line Information and Software Sources

HP NetServer World Wide Web access: <http://www.hp.com/go/netserver>

Novell World Wide Web access: <http://www.novell.com>

Novell Networking BBS: 801-429-3308 (9,600 baud)

5 Novell NetWare Small Business 5.0 Installation Guide for the HP NetServer E 200

This section created on January 27, 2000.

Section 1. Hardware Requirements for Installation

Prepare your NetServer following the instructions in the E 200 Installation Guide.

It is recommended that you do not install any third party adapters until you verify that the Hewlett-Packard equipment is functioning properly and you complete the Novell NetWare installation.

Section 2. HP E 200 NetServer Diskette

Your system includes a Startup CD. Boot your system from the CD and follow the on-screen instructions to create two HP Diagtools Diskettes and one Novell NetWare Drivers Diskette.

- Drivers Diskette – SCSI, CD-ROM, and LAN drivers
 - A:** \SCSI – drivers for HP SCSI card
 - A:** \NICDRV – drivers for HP LAN card
 - A:** \IDECDROM – IDE CD-ROM driver

Section 3. Perform Manual NetWare SB 5.0 Installation

The manual installation of NetWare SB 5.0 contains 3 phases.

- Phase 0 – Run Diagnostics (Optional)
- Phase 1 – Pre-Installation
- Phase 2 – Installing NetWare 5 for Small Business

PHASE 0 – Run Diagnostics (Optional)

Once the NetServer hardware is installed, boot the system from the DiagTools Diskette that was created from the Startup CD to run the hardware diagnostic and to save/view the hardware inventory.

PHASE 1 – Pre-Installation

Insert the NetWare for SB 5.0 bootable diskette into the server's floppy drive and boot the system.

1. At "Select Language", select English or your local language. Press Enter.
2. At "Installation type", select **Express Installation** (recommended). Press Enter.
3. Create a new 100MB DOS partition and a new NetWare partition (All data on the disk will be deleted). Press Enter.
4. Enter your company name. Press Enter.
5. Select your time zone. Press Enter.
6. The system will now list the options you have selected:

```
*Express installation
*New DOS partition (drive will be RE-FORMATTED)
*New NetWare installation
*Company name: what you have entered
*Time Zone: ...
```

Press Enter.

System now reboot server; make sure CD-ROM drive is z:\

PHASE 2 – Installing NetWare 5 for Small Business

Insert the License diskette into the FD drive, Insert NetWare 5 Operating System CD into z:\ drive

Under the drive z:\ and type NSBS

In NetWare Install screen, follow the instructions:

1. At "Select Language", select English or your local language. Press Enter.
2. Read the license agreement and select "**Accept License Agreement**".
3. Choose to "Create a New Boot Partition".

4. HP recommends accepting the default 100MB boot partition by selecting **Continue**. Your system will now create the partition, reboot, and format that partition.
5. Choose **Continue** when prompted with: 'A new server.'
6. Modify or accept the default country, code page, keyboard, mouse and video settings.
7. Now the installation program will detect hardware and attempt to match the drivers to the hardware. You will see a driver summary screen. Under "Hot plug support module" verify it displays "optional" because Hot Plug PCI is not supported on this HP NetServer. Under the "Options" menu, choose **Modify** and press Enter.
8. Highlight the **Storage Adapters** item and press Enter.
9. IDEATA, AHA2940.HAM, AHA2950.HAM will be listed as drivers. Highlight each AHA2940.HAM driver and delete them by pressing the Delete key on your keyboard. The only remaining driver should be the IDEATA.HAM driver. You will now supply your own AHA2940 drivers from the HP supplied drivers diskette.
10. Insert the HP NetServer E 200 drivers diskette in the floppy drive. Press the Insert key on your keyboard to add a driver.
11. Press the Insert key again to add a driver which is not listed.
12. Press F3 and specify the path: **A:\SCSI** and press enter. This process will take a few seconds to process.
13. The installation program will detect the PCI SCSI hardware and it will add the AHA2940.HAM driver from the drivers diskette.
14. To edit the drivers listed under Network boards, select "**Return to driver summary**". Press **Continue** to leave the storage adapters driver setup.
15. From the Drivers Summary screen, choose Modify and highlight the "**HPTX**" and "**CHPTX**" driver which was auto-detected by the installation program. Delete this driver by pressing the Delete key.
16. Insert the HP NetServer E 200 NetWare drivers diskette. Press the Insert key.
17. Press the Insert key again to add a driver not listed.
18. Press F3 and specify the path: **A:\nicdrv**
19. Choose "**CHPTX.LAN**" and press enter.

20. Choose "**Return to driver list**". Under the "Additional driver options" menu, select "**Return to driver summary**". Highlight **Continue** and press enter again.
21. The installation program will now enter a JAVA GUI application. Follow the instructions on-screen to continue with the installation. You will enter items such as server name, time zone, NDS information, etc.
22. Insert the NetWare licensing diskette when prompted.
23. After the NetWare 5.1 installation is complete, you should install the latest support pack from Novell. Support Packs can be found at:
<http://www.support.novell.com/csp/>

Section 4. On-Line Information and Software Sources

HP NetServer World Wide Web access: <http://www.hp.com/go/netserver>

Novell World Wide Web access: <http://www.novell.com>

Novell Networking BBS: 801-429-3308 (9,600 baud)

6 Red Hat Linux 6.1 Installation Guide for the HP NetServer E 200

This section created January 19, 2000.

Section 1. Hardware Requirements for Installation

Prepare your NetServer following the instructions in the E 200 Installation Guide.

It is recommended that you do not install any third party adapter until you verify that the Hewlett-Packard equipment is functioning properly and you complete the Red Hat Linux installation.

Section 2. HP E 200 NetServer Diskette

Your system includes a Startup CD. Boot your system from the CD and follow the on-screen instructions to create two HP Diagtools Diskettes .

Section 3. Perform Manual Linux 6.1 Installation

The manual installation of Red Hat Linux contains two phases.

- Phase 0 – Run Diagnostics (Optional)
- Phase 1 – OS Installation

PHASE 0 – Run Diagnostics (Optional)

Once the NetServer hardware is installed, boot the system from the DiagTools Diskette that was created from the Startup CD to run the hardware diagnostic and to save/view the hardware inventory.

PHASE 1 – OS Installation

1. Insert Red Hat Linux 6.1 bootable CD-ROM. Press the Enter key to begin the installation.
2. At "Language Selection", select English. Select **Next**.
3. At "Keyboard Configuration":
 - Model: Generic 104-Key PC
 - Layout: US English.

Select **Next**.

NOTE If you wish to change your keyboard type after you have booted your Red Hat Linux system, you may use the `/usr/sbin/kbdconfig` command.

4. At "Mouse Configuration", select Generic 2-Button Mouse (PS/2). Select **Next**.
5. At the Welcome message, press **Next** to continue.
6. At "Installation Type", select **Server**. Select **Next**.
7. At "Automatic Partitioning", select **Manually Partition**. Select **Next**.
8. At "Partition Disks", select **Done**. Press Enter.
9. Initialize the partition table if it is shown to be corrupted.
10. At "Current Disk Partitions", select **Showing Device, Requested, Actual Edit**. Press Enter.
11. At "Mount Point", select: /
Select **Next**.

NOTE You must install Red Hat Linux to one or more partitions having a partition type of "Linux native". Red Hat Linux also requires a swap partition, which has a partition type of "Linux swap". A swap partition is used to support virtual memory. You will now have to create a swap partition.

12. At "Choose to Format", click to select **Next**.
13. At "Network Configuration":
 - Boot Protocol: Static IP address
 - Type your IP address and subnet
 - If you choose DHCP, you do not need to type an IP address.
 - Host name: (name of server).Select **Next**.
14. At "Time Zone Selection", select your time zone. Select **Next**.
15. At "Account Configuration":

Root Password: *****

Confirm: (reenter your root password)

Add user: Account name, Password, Password (Confirm), Full Name.

Select **Next**.

16. At "About to install" , select **Next**. It will be take around 15 minutes to install Linux.

Congratulations, installation is complete. Remove the boot media and click **Exit** to reboot.

Section 4. On-Line Information and Software Sources

Red Hat World Wide Web access: <http://www.redhat.com/>