

Keep this manual in a safe place

# Express5800/R320a-M4, R320a-E4 Windows Server 2008 32bit Installation Procedure

This manual describes the installation procedure of Windows Server 2008 Enterprise 32-bit(x86) Edition in this product.

Please install by the manual installation procedure explained to this manual when installing Windows Server 2008 Enterprise 32-bit(x86) Edition.

## Applicable models

### **N8800-161x, N8800-168x (x: E or F)**

(NEC Express5800/R320a-M4, NEC Express5800/R320a-E4)

Target OS is Windows Server 2008 Enterprise 32-bit(x86) Edition.

It is indicated as "Windows Server 2008 32bit" in this manual.

## 1. Items required for installation

Following items are required for installation.

- EXPRESSBUILDER DVD
- Windows Server 2008 Enterprise 32-bit(x86) Edition Backup DVD-ROM
- Windows Server 2008 Service Pack 2
- Installation manual (This maunual)
- User's Guide (Setup)
- User's Guide

## 2. Prepare for installation

Before starting the setup, decide the size of the partition for the operating system. The system partition size can be calculated from the following formula.

Required partition size = size required to install OS + paging file size + dump file size + application size

Size required to install OS = 9,400MB (Windows Server 2008 + Service Pack 2)

Paging file size (recommended) = Installed memory size \*1.5

Dump file size = Installed memory size + 300MB

Application size = Required size

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### IMPORTANT:

- The above-mentioned paging file size is recommended for collecting debug information (memory dump). The paging file with initial size large enough to store the dump file in the boot drive is required.  
Correct debug information might not be able to be collected due to virtual memory shortage when the paging file is insufficient, so set an enough size of the paging file with the entire system.
  - Depending on system configuration, 4096MB or more per partition might not be able to be set to the paging file size.  
Set it to 4095MB when the message to ask a value that is smaller than 4096MB is displayed.
  - The maximum dump file size for the system with more than 2GB memory mounted is "2048MB+300MB".
  - If you install any application program or the like, add necessary space to the partition to install these programs.
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For example, if memory of 1GB is mounted, the required minimum partition size obtained from the above formula is as follows:

$$9,400\text{MB} + (1,024\text{MB} * 1.5) + 1,024\text{MB} + 300\text{MB} + \text{application size} \\ = 12,260\text{MB} + \text{application size.}$$

And perform following procedures of the User's Guide (Setup).

- "Step 2 Prepare for Express Setup" in Chapter 4
- "Step 3 Disable OS Boot Monitoring Function" in Chapter 4

### 3. Installing Windows

1. Turn on your system.
2. Insert the Windows Server 2008 DVD-ROM into your DVD-ROM drive.
3. Restart the system

To restart the system, press **Ctrl + Alt + Del** or turn off the system once, and then turn it on again.

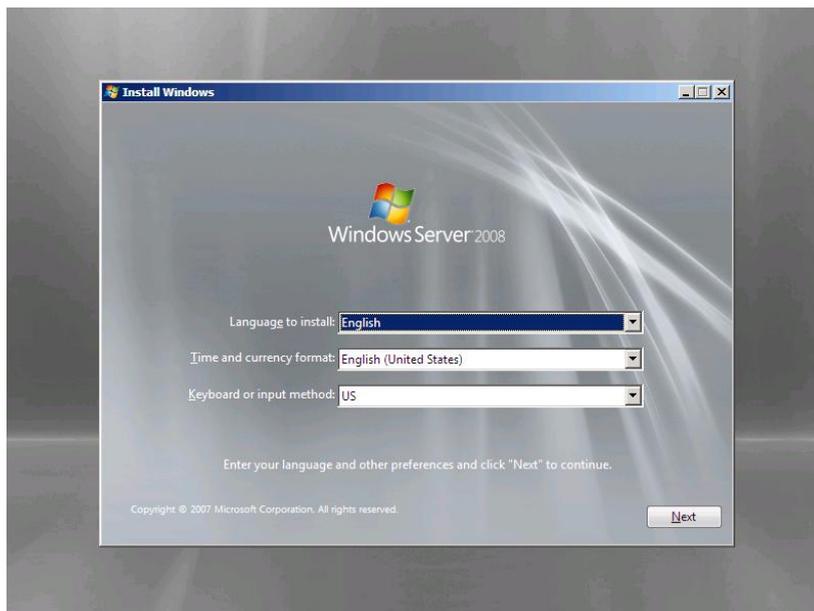
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**IMPORTANT:**

- When prompted to [press any key to boot from CD or DVD], press **Enter** while the message is displayed.
  - If the Windows installation screen (shown in steps 4) does not appear, turn off the system, and then turn it on again.
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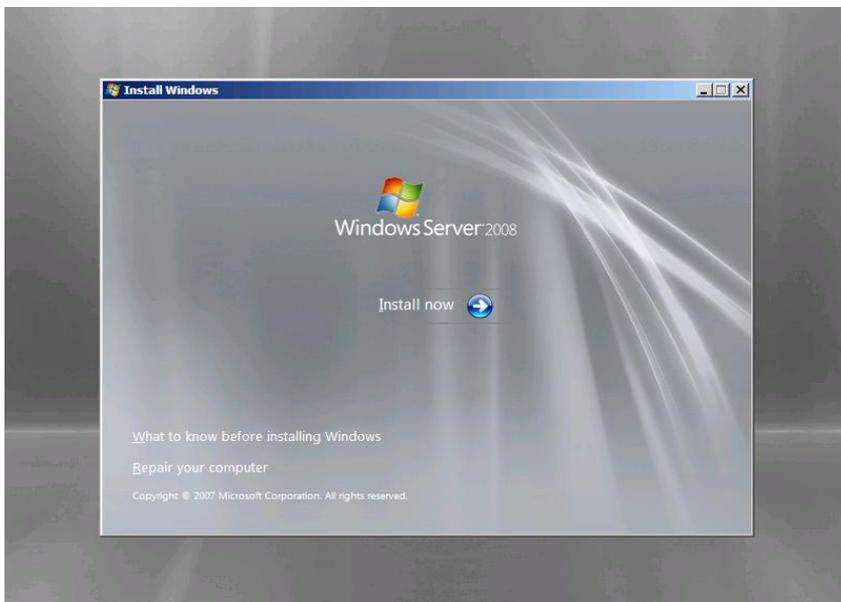
The DVD-ROM starts. A message "Windows is loading files ..." appears.

4. Select a language and other options from the drop-down lists, and then click [Next].

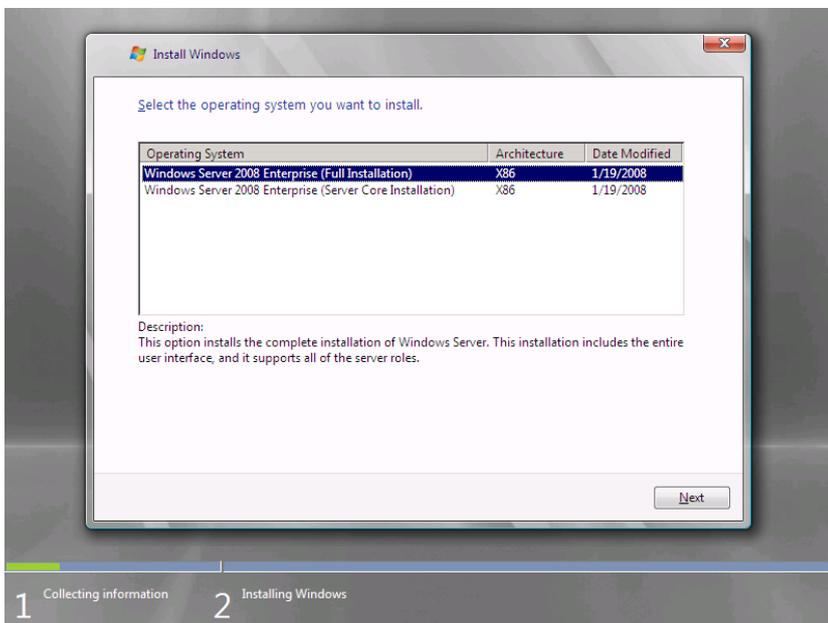


5. Click the [Install now ] button.

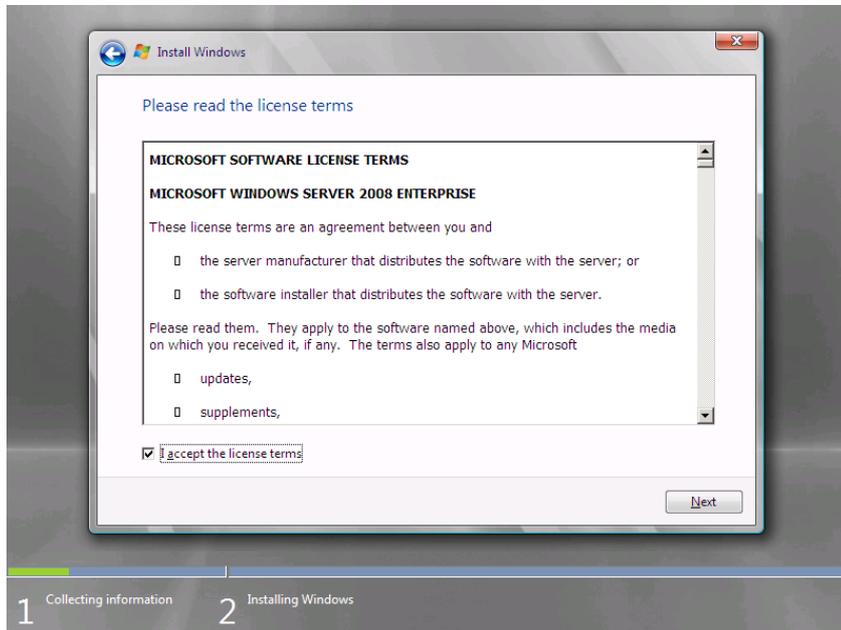
The installation starts.



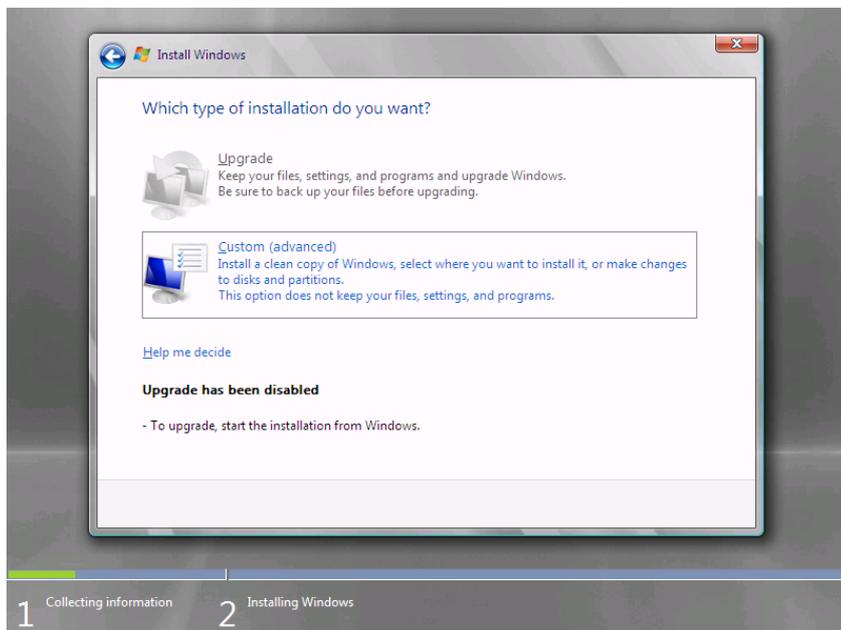
6. Select "Windows Server 2008 Enterprise (Full Installation)" on this screen.



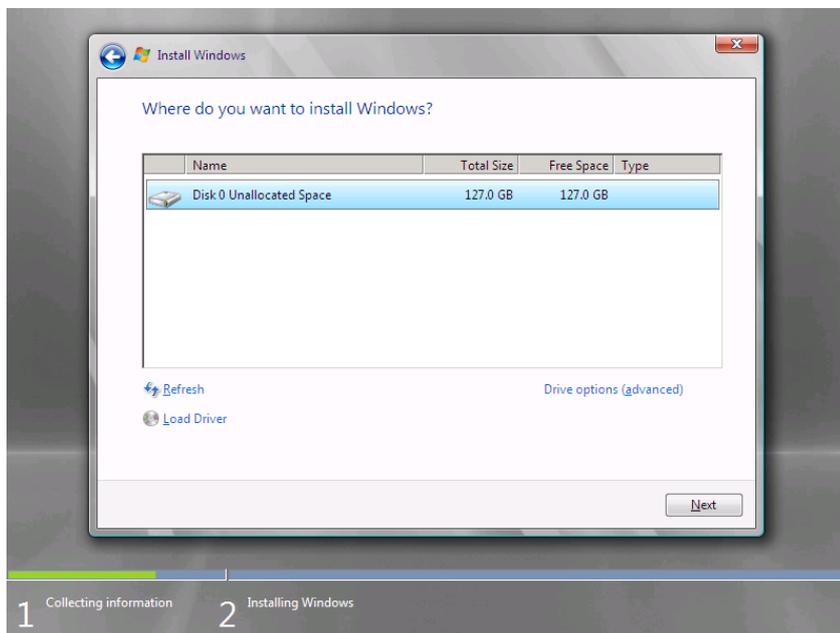
7. Read the license terms carefully. If you agree, select [I accept the license terms], and then click [Next].



8. Select the type of installation you want.  
[Custom (advanced)] is selected below.



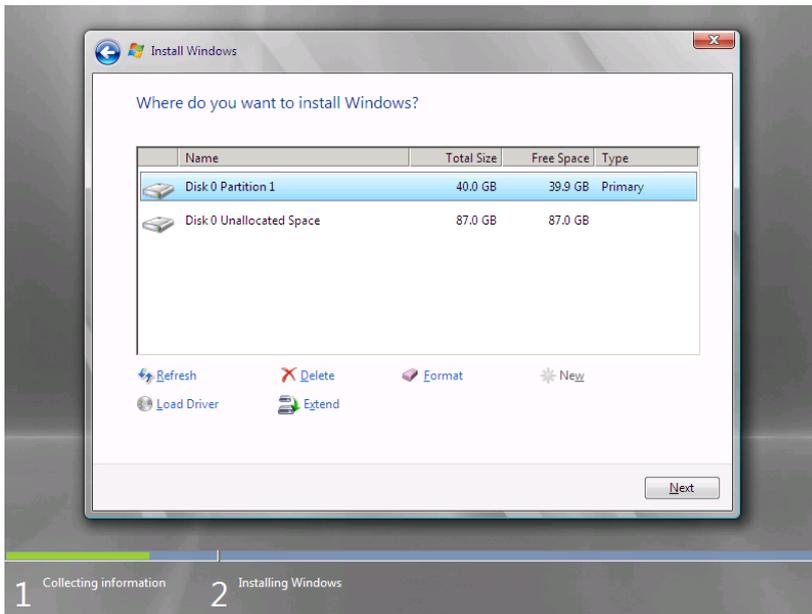
9. Click [Drive options (advanced)] on this screen.



10. Click [New], enter a partition size, and then click [Apply].

11. Select the partition created in step 10, and then click [Format].

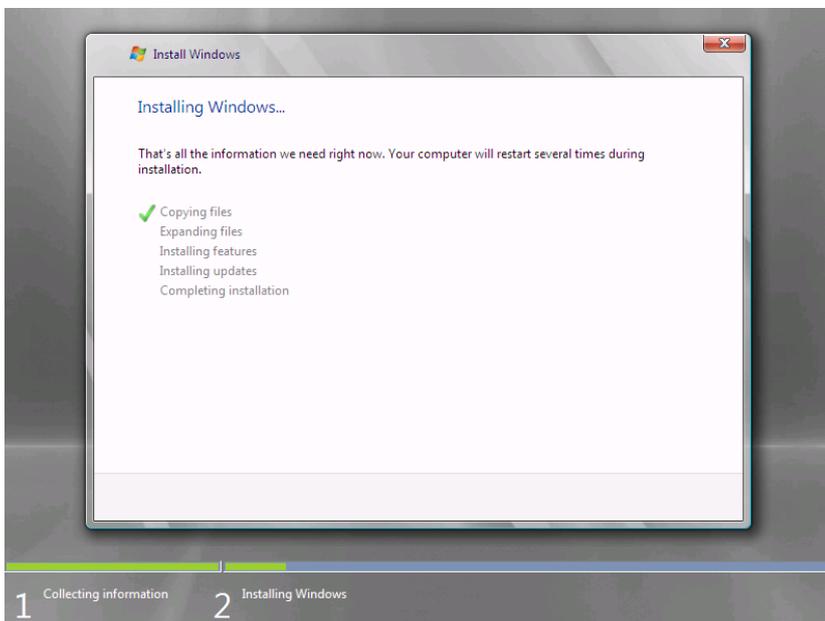
12. Select the partition created, and then click [Next].



**NOTE:**

The number of partitions displayed on a screen depends on your system configuration.

When the following message appears, the installation starts automatically.



13. After the completion of Windows Server 2008 setup, click [OK] on the below screen that request you to change the password before login.



14. Change the password, and then click the [↩] button.



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**NOTE:**

Administrator password that satisfy the next condition, are required.

- More than 6 characters
  - Contains characters from three of the following categories (numbers, uppercase letters, lowercase letters, and signs)
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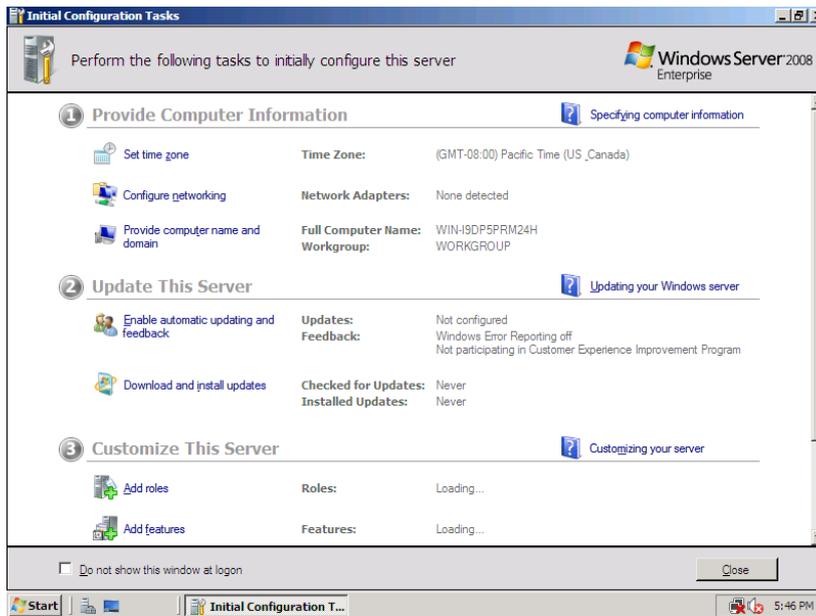
15. When the following message appears, click [OK] to log on.



16. Log on to the system.

The steps vary depending on the edition you selected in step 6.

On the [Initial Configuration Tasks] window, enter user information.



17. Update the system by the following procedure.

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**IMPORTANT:**

"Updating the System" disables the Scalable Networking Pack (SNP) function. The setting of SNP function may affect the system performance. Please contact the sales agent for more.

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1. Log on to the system using an administrator account.
2. Insert the NEC EXPRESSBUILDER DVD into the optical disk drive.
3. If the menu is displayed, click [Setup Windows] and click [Update the system].

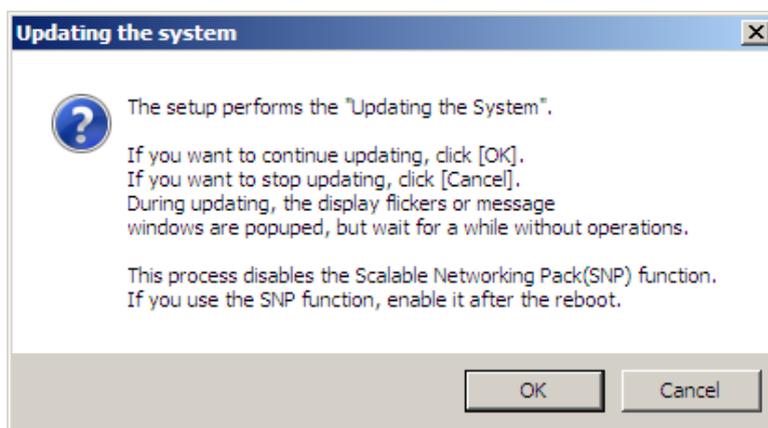
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**NOTE:**

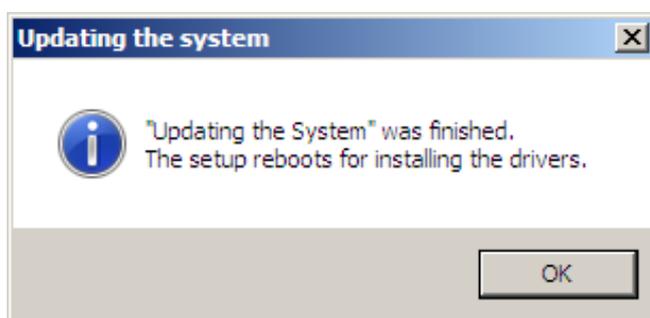
Right-clicking on the Menu produces the same outcome.

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4. The following box appears.



5. Read the message, and then click [OK].  
The update starts.
6. When the following message appears, click [OK] to restart the system.




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**CHECK:**

If the NEC EXPRESSBUILDER DVD is set to the optical disk drive, immediately take out the NEC EXPRESSBUILDER DVD.

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## 18. Install ft Server Control Software.

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### **IMPORTANT:**

You must terminate all programs because the software will not be installed successfully, especially when Microsoft management console or Registry editor is running.

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#### 1. Follow the steps below to install ft Server Control Software.

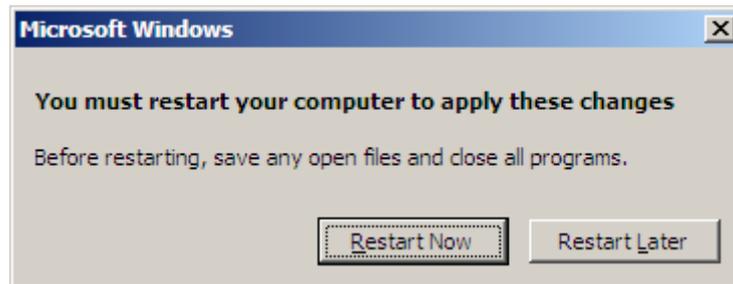
- a) After logging on to the system as a user with the Administrative account, insert the NEC EXPRESSBUILDER DVD into the optical disk drive of the server.
- b) The menu screen starts up. Click [Setup software] and select [ft Server Control Software] on the menu.

Follow the instructions to with the installation.

The message "ft Server Control Software, Now Installing... Please Wait." is displayed while ft Server Control Software. Do not use keyboard or mouse while this message is being displayed.

Although some dialog boxes and popup windows are displayed during installing ft Server Control Software, do not operate from keyboard and mouse. Installation is continued automatically.

Do not operate especially although the following dialog is displayed. When installation is stopped with operation of keyboard or mouse, there is a possibility that OS does not start normally.



#### 2. The system is rebooted during the installation.

The system is rebooted several times during the installation.

Remove the NEC EXPRESSBUILDER DVD from the optical disk drive once rebooting is started. After the system is rebooted, log in again as the user logged in before rebooting. Installation of the ft Server Control Software is continued.

#### 3. The message "Installation finished." is displayed.

Once the installation is completed, the message "Installation finished." is displayed and the rebooting starts by clicking [OK]. Change this screen to check the message, as the message can hide behind the screen.

The exclamation mark "!" appears on the following devices in the Device Manager after installation of the ft Server Control Software. However there is no effect on the operation as it is due to the specification of the server.

- System devices - Stratus Disk Device
- Storage controllers - Stratus Virtual Host Adapter Device

#### 19. Install NEC ESMPRO Agent

Perform "NEC ESMPRO Agent" in Chapter 5 of the User's Guide (Setup).

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**IMPORTANT:**

Ensure that "System Update" is applied and that "ft Server Control Software" and "NEC ESMPRO Agent" are installed.

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#### 20. Connect and Configure Options and Update Software

When there are optional PCI boards or peripheral devices to connect to the main unit, see "Step5. Connect and Configure Options" in Chapter 4 of the User's Guide (Setup) and "PCI BOARD" in Chapter 8 of the User's Guide for connecting them.

And when the Update CD/DVD is attached to the server, perform "Step6 Update Software".

#### 21. Install Windows Server 2008 Service Pack 2

Insert the Windows Server 2008 Service Pack 2 DVD into the optical drive of the server, and install Service Pack 2 follow the message on the screen. The medium is common to the 32-bit edition and the 64-bit edition.

It is necessary that Service Pack 2 is installed before setting duplex LAN configuration.

#### 22. Other Settings

After installation of Windows Server 2008 Service Pack 2, perform from "Step7 Set Duplex LAN Configuration" to "Step13 Back up System Information" in Chapter 4 of User's Guide (Setup).



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