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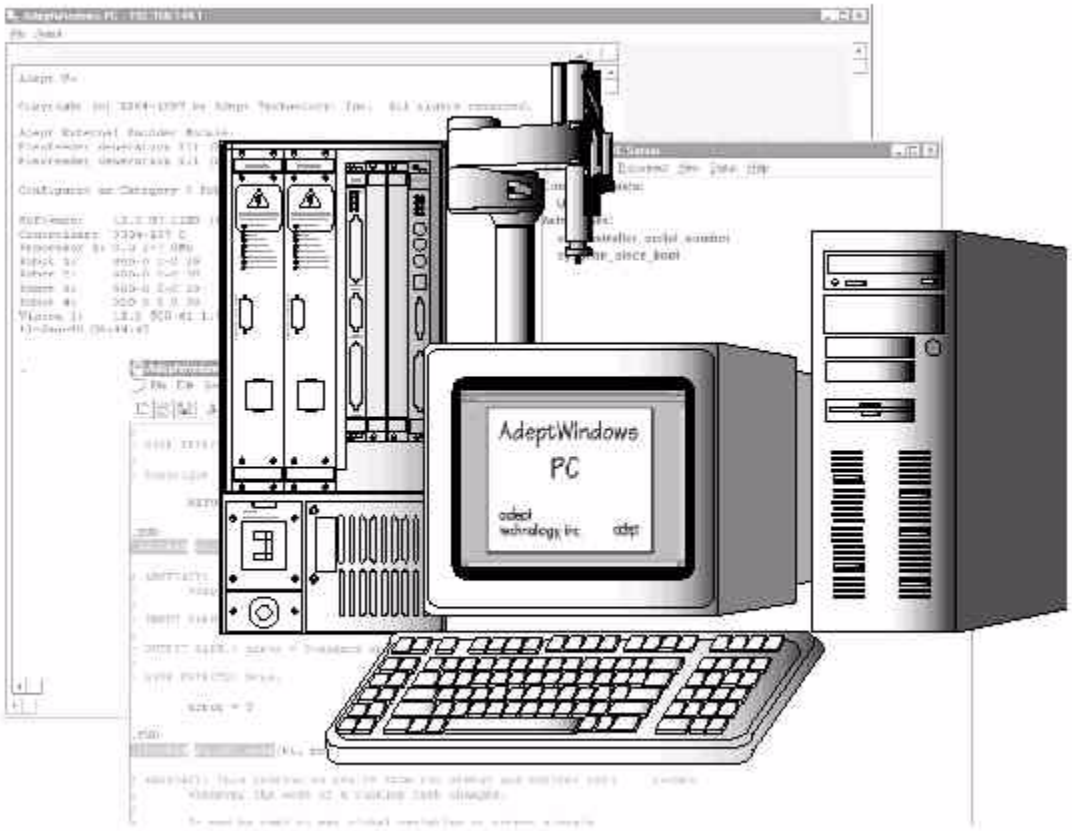
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AdeptWindows Quick Install
Version 3.0



October 2001

Part Number: 00971-07400 Rev B

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Overview

The AdeptWindows quick installation guide is intended to get you up and running the AdeptWindows software as quickly as possible, making only the necessary connections and configurations. For detailed or more advanced setups, refer to the AdeptWindows installation section in the online help.

What's New?

Version 3.0 contains the following new features:

- Automated installation of the Omni-NFS Server software. The AdeptWindows installer now includes support for automated installation of the Omni-NFS Server software.
- Connect button added to the Scan Ethernet window. In previous versions of AdeptWindows, you were required to write down the desired IP address and then enter it in the V+ Cell Address dialog box. AdeptWindows version 3.0 allows you to simply select the desired IP address and press the new Connect button to connect to the selected system.
- Controller Network Configuration Utility. The Controller Network Configuration Utility simplifies the process of bringing up a new Adept controller. It allows you to set the IP address (and subnet mask) of the Adept controller regardless of the current IP address of the controller and of the PC.
- Improved handling of Vision data.
  - Vision window has the text "(LIVE)" appended in the title bar when live video is displayed.
  - V+ no longer transmits video when the Vision window is closed. Requires V+ 14.2 and later.
  - When V+ detects missing video data, it gradually reduces the video transmission rate until no video data is missing.

How Do I Begin?

Before you can use AdeptWindows, you must complete the following steps:

1. Install the Adept controller.
2. Install AdeptWindows on your PC, see page 4 for details.
3. Install the Omni-NFS server software, see page 8 for details.
4. Set up a serial or Ethernet connection, see page 9 or page 10, respectively, for details.
5. Install the AdeptWindows license on the Adept controller, see page 13 for details.

If you have any problems with the installation, refer to the Troubleshooting section found on page 14 for more information.

How Can I Get Help?

Refer to the How to Get Help Resource Guide (Adept P/N 00961-00700) for details on getting assistance with your Adept software or hardware.

Additionally, you can access the following information sources on Adept's corporate web site:

- For Contact information: http://www.adept.com/main/contact/index.html
- For Product Support information: http://www.adept.com/main/services/
- For further information about Adept Technology, Inc.: http://www.adept.com

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System Requirements

AdeptWindows runs on both Windows 95/98/2000 and Windows NT 4.0. Unless noted, the term "Windows" refers to these operating systems.

The AdeptVision image is not supported by the serial option. However, vision graphics are displayed on the PC.

PC Requirements

In order to use AdeptWindows, your PC should be configured with:

- IBM-compatible PC with a processor capable of running Windows® 95/98/2000 or Windows® NT
- Windows 95/98/2000 or Windows NT 4.0 operating system
- 500 Mb hard disk (recommended minimum)
- Minimum of 16 Mb RAM (more memory may be required to run Windows NT)
- SVGA monitor
- CD-ROM drive
- For the Ethernet option, the PC requires an Ethernet card and networking hardware (cabling, hub, etc.).
- For the serial option, a serial-interface cable is required.

Adept MV Controller Requirements

In order to use AdeptWindows, your Adept MV controller should be configured with:

- V+ 13.0 or later (V+ 13.2 or later is required to run the Controller Network Configuration Utility)
- An AWC-II board
- An AdeptWindows license on the controller
- For the Ethernet interface, the AdeptNet license must be enabled
- For the serial option, a serial link between the PC and the Adept controller is required. This link uses the serial RS-232/Term port, located on the AdeptWindows Controller (AWC) board.

Adept SmartController Requirements

In order to use AdeptWindows, your Adept SmartController should be configured with:

- V+ 15.0 edit D or later, SmartController build
- An AdeptWindows license on the controller
- For the Ethernet interface, the AdeptNet license must be enabled

Network Requirements

AdeptWindows users should be aware that a fixed IP address is required for both the PC and the Controller. Typically, IP addresses are allocated by your IT department.

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Installing the Software

The AdeptWindows software for the PC is distributed on CD-ROM. The media contains an installation program to properly install the software on the PC. The following programs will be installed:

- AdeptWindows PC
- AdeptWindows Offline Editor
- AdeptWindows DDE Server
- AdeptWindows TFTP Server
- Omni-NFS Server (optional)
- AdeptWindows AWC Configuration Tool
- AdeptWindows Online Help
- AIM Online Help

After installation, each of these programs can be started from the Start menu bar in Windows.

To install AdeptWindows

1. Make a note of the Serial Number supplied with the AdeptWindows Installation media.
2. Put the AdeptWindows CD-ROM into the CD-ROM drive of your PC. Your PC will automatically start the SETUP program from the CD-ROM. The startup window is displayed. If the CD-ROM did not start automatically and the CD was already in the drive, you need to eject the CD and then put it back into the drive. If you have Windows AUTOSTART disabled, then you will have to manually invoke the setup from the Windows Taskbar. More...
3. Choose **Next** to start the installation process. The InstallShield Wizard displays the Customer Information window.

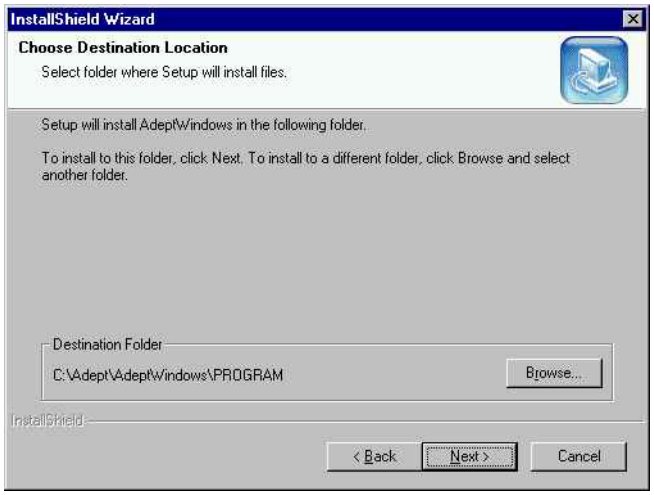


4. Enter your name, company name, and AdeptWindows serial number in the corresponding fields. When entering the serial number, enter the characters previously noted (see Step 1) from the label on your AdeptWindows disk.

   Note: Do not confuse the Serial Number for the AdeptWindows software on the PC with the password for the AdeptWindows license on the Adept controller.

5. Click **Next** to continue. The InstallShield Wizard displays the Choose Destination Location window.

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By default, the software is installed into the subdirectory

```
\Adept\AdeptWindows\PROGRAM
```

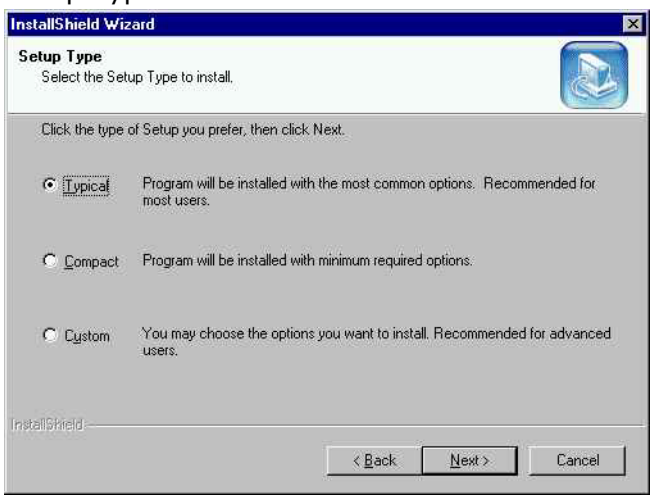
on the hard drive of your PC. You can click Browse to specify a different directory if desired.

Additionally, during installation, the software automatically creates the subdirectory

```
C:\Adept\Disks\Disk_C
```

that can be automatically mounted as an NFS directory by the Adept controller. See Mounting an NFS Drive from the Adept Controller for details.

6. Click **Next** to accept the default directory. The InstallShield Wizard displays the Setup Type window.



7. Click **Next** to use install the default (Typical) components. The InstallShield Wizard briefly displays the Setup Status window while the AdeptWindows software is being installed. After the AdeptWindows software is installed a window is displayed for installing the Omni-NFS server software.

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Selecting the Omni-NFS Server Installation Option

Choose one of the following options:

If...	Then...
You do not have Omni-NFS server or another NFS server application	Toggle **Install the Omni-NFS server** and click **Next** to continue with the installation process. See "Installing the Omni-NFS Server on the PC" for details on installing the NFS server software.
You already have Omni-NFS server or another NFS server application	Toggle **There is a previously installed NFS server** and click **Next** to end the installation process.

Installing the Omni-NFS Server on the PC

This section describes the installation of the Omni-NFS Server on a PC with either the Microsoft Windows 95/98/2000 or Windows NT 4.0 operating system.

To install Omni-NFS Server:

1. After the AdeptWindows software installation has completed, the InstallShield Wizard automatically starts the Omni-NFS installation program. The startup window shown in Figure 2-6 is displayed.
2. If you want to manually start the Omni-NFS installation program, on the AdeptWindows CD-ROM, double-click the SETUP.EXE program in the Omni-NFS folder.
3. Click Next to start the installation. The InstallShield Wizard Welcome window is displayed as shown below.
4. Click **Next** to continue. The InstallShield Wizard displays the Omni-NFS Server for Windows 2000/NT/98/95 serial number/password window.
5. Enter the Omni-NFS serial number in the **Serial No** field; enter the Omni-NFS password in the **Password** field. Click **Next** to continue. The InstallShield Wizard displays the Omni-NFS License Agreement window.
6. Click **Yes**, after reading the license agreement. The Choose Destination Directory window is displayed as shown below.

   You can change the destination directory, but it is recommended to use the default destination directory of C:\Program Files\NFserver.
7. Click **Next** to proceed. The Select Program Folder window is displayed as shown in Figure 2-25.
8. Click **Next** to select the default program folder, Omni-NFS Server V4.1. The Setup Status window is displayed as shown below.
9. After the Omni-NFS software is installed, a program folder window is displayed that shows the shortcuts for the installed Omni-NFS software.
10. Close the Omni-NFS Server program shortcuts folder. The InstallShield Wizard displays the InstallShield Wizard Complete window.
11. Click **Finish** to close the InstallShield Wizard window if it is still opened.

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Setting up a Serial Connection

This section describes how to set up a serial communication link between your PC and the Adept controller. If you are using an Ethernet communication link, see "Setting up an Ethernet Connection" on page 10 for details.

Note: The serial connection works only with the RS-232/TERM serial port on the AWC board being used as the Adept controller's main system processor. It cannot be used with the controller's global serial ports located on an SIO board or serial ports on an auxiliary processor board.

Additionally, this item works only with Adept MV controllers that are equipped with an AWC board. It will not work with the Adept SmartController.

Required Cabling

The serial interface cable is provided with the AdeptWindows Controller board.

The controller end of the cable has a circular mini-DIN male connector. This connector plugs into the RS-232/TERM port (circular mini-DIN female connector) located on the AWC board. See the *Adept MV Controller User's Guide* or *Adept SmartController User's Guide* for pinout details.

The PC end of the cable is terminated with a DB 25-pin serial connector. This plugs into a 25-pin serial port on your PC. A 25- to 9-pin adapter is included that can be used to connect the cable to a 9-pin serial port.

Hardware Connection

To set up the serial connection:

1. Connect one end of the serial interface cable to a COM port in your PC. Make a note of the COM port you are using (this information is required during the software startup).
2. Connect the other end of the cable to the RS-232/TERM port on the AWC board or RS-232 port on the Adept SmartController.
3. Set the DIP switches on SW1 on the AWC board or Adept SmartController. More...

Note: When the DIP switches on the AWC board are set for AdeptWindows, the AdeptWindows option must be enabled (see "Installing the AdeptWindows License" on page 13 for details). Otherwise, the connection will succeed but all other installed license options on the controller will be unavailable.

Configuring the Serial Protocol

The serial ports are automatically configured by the AdeptWindows PC software and V+ 14.0 (or later) operating system. Therefore, you do not need to manually configure the serial protocol.

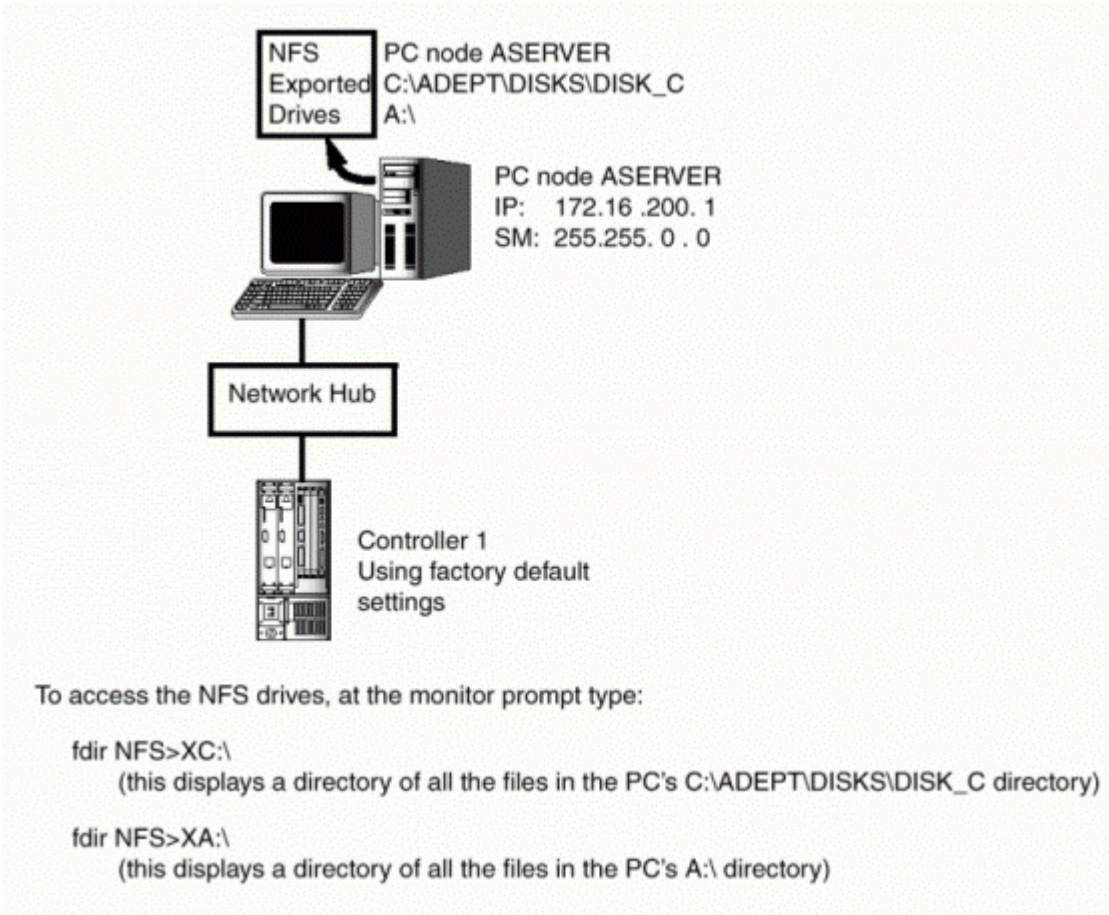
The V+ version 14.0 (or later) operating system (running on the Adept controller) and the AdeptWindows PC application (running on the PC) are configured to operate at a predefined baud rate. This protocol automatically overrides any previously defined serial configuration for the serial port on the Adept controller and on the PC.

You are now ready to start AdeptWindows PC.

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Setting up an Ethernet Connection

You can set up a simple Ethernet communication link between one or more PCs and one or more Adept controllers as shown below.



To test the Ethernet connection, it is useful to know how to "PING" between the PC and the controller. The PING command sends a quick message between the two devices to verify that the Ethernet connection is working.

A Note on IP Addresses

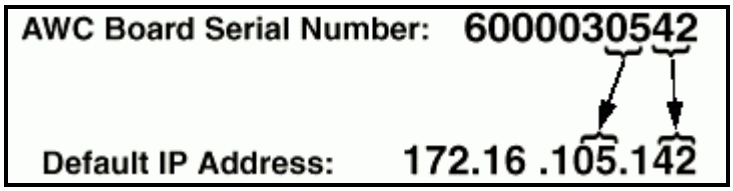
The IP address is the logical means by which the higher-level Ethernet software identifies a specific node. The IP address must be unique for each node within a LAN.

For Adept MV controllers, when an AWC board is installed in the Adept MV controller, V + version 13.0 (or later) will automatically create a “default” IP address for the controller that is based on the AWC board’s serial number (not the controller’s serial number). The default IP address will take the form:

172.16.1xx.1yy

where “xx” and “yy” are the right-most 4 decimal digits of the AWC board’s serial number as shown below.

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Note: The AWC board serial number is located on a bar-code label attached to the backplane connectors at the rear of the board.

The default IP address will be used whenever:

- the NVRAM has not been initialized
- the IP address in the NVRAM has been set to 0
- a hardware or software switch on the Adept controller forces use of the default IP address.

If you are using the default IP address for the Adept controller (either AWC-equipped MV controller, or Adept SmartController), then you must use the following IP address and subnet mask for the PC:

IP address: 172.16.aa.bb

subnet mask: 255.255.0.0

where "aa" and "bb" in the IP address define a unique node address for each PC in the system. Adept recommends using 1 for the first PC, 2 for the second PC, 3 for the third PC, etc. See Installing TCP/IP for details on setting the IP address and subnet mask in Windows 95/NT.

Required Interface Hardware

Each PC requires a user-supplied Ethernet interface card. These are available at most PC supply outlets.

A shielded cross-over Ethernet cable is provided with the AdeptWindows Software Kit (Adept PN 90963-00210). This cable can be used in place of a network hub when one PC is connected to one Adept controller.

If more than one PC or Adept controller is being connected, you must use a user-supplied network hub and user-supplied Ethernet cables. These are available at most PC supply outlets.

Caution: Do not use the supplied cross-over Ethernet cable when using a network hub.

The AWC board and Adept SmartController are equipped with an Ethernet interface connector. Therefore, no additional hardware is required for the Adept controller.

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Configuring Your System

There are many ways to configure your AdeptWindows system. You can setup a basic Ethernet installation between one or more PCs (with only one PC configured as an NFS server), a hub or cross-over cable, and one or more Adept controllers. The basic configurations using Adept default settings are:

- One PC, controller, and NFS server
- One PC, multiple controllers, and one NFS server
- Multiple PCs, multiple controllers, and one NFS server

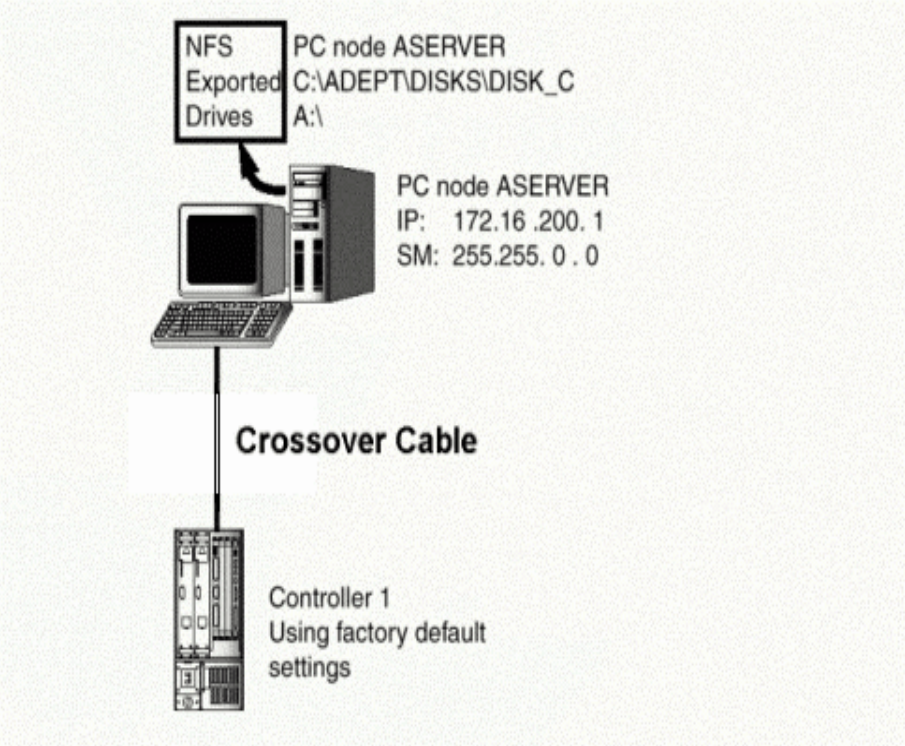
There are also other network configurations that use more complex installations with multiple PCs, multiple controllers, and multiple NFS servers, these include:

- Multiple PCs, controllers, and NFS servers
- Multiple PCs, controllers, NFS servers, and networks

We are only going to discuss the most basic configuration, on PC, controller, and NFS server in this guide. For details on the other configurations, please see the AdeptWindows online help.

Configuring One PC, Controller, and NFS Server

As shown in the figure below, there is one PC networked to one Adept controller. The controller is using the default IP address assigned by V+. Additionally, the controller has mounted NFS drives exported by the PC node ASERVER.



To create the network shown above, complete the following steps:

1. Connect the Adept controller and your PC to a network hub, or use a cross-over cable in place of the hub and its connecting cables.
2. Install the AdeptWindows software on the PC.
3. Install TCP/IP on the PC. Use the IP address and subnet mask shown above, or

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use the Controller Network Configuration utility to match the controller to your PC's IP address (see "Using the Controller Network Configuration Utility" on page 14 for details).

4. Start the Adept controller and test the Ethernet connection.
5. If the Omni-NFS software was not installed on the PC during the installation of the AdeptWindows software, install the Omni-NFS software on the PC. After installing the Omni-NFS software, verify that the Omni-NFS server is running.
6. If required, install the AdeptWindows license on the controller.
7. Restart the Adept controller to automatically mount the default NFS directories exported by the PC.
8. Start AdeptWindows on the PC and connect to the controller. Since you are starting AdeptWindows for the first time, you will have to enter the controller's IP address.
9. Test the NFS mounted drives.

Installing the AdeptWindows License

To use AdeptWindows PC, the AdeptWindows license must be installed on the Adept controller. If your system was ordered from Adept with the AdeptWindows PC option, the license is already installed. If you are adding the AdeptWindows PC option to an existing system, the license must be installed. On a controller that does not have the license installed, the controller will allow a connection to an AdeptWindows PC interface. However, all the other license options on your Adept controller are disabled. This allows you to install the license and then restart the controller. After restarting, all controller options will initialize normally.

To install the license on the Adept controller, type the following at the Monitor prompt:

```
INSTALL password
```

where "password" is the password for AdeptWindows on your Adept controller.

Note: Do not confuse the password of the AdeptWindows license of the Adept controller with the Keyword for installing the AdeptWindows software on your PC.

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Troubleshooting

This section provides some tools to help you troubleshoot and test your installation process. If you need to contact Adept, refer to “How Can I Get Help?” on page 4 for more information.

Using the Controller Network Configuration Utility

The Controller Network Configuration Utility simplifies the process of bringing up a new Adept controller. With previous versions of AdeptWindows, to bring up a new Adept controller involved configuring a PC to a specific IP address that was accessible from the Adept controller, running AdeptWindows PC to communicate with the Adept controller, running a V+ configuration utility to set the desired IP address (and subnet mask) for the Adept controller, and then finally reconfiguring the PC to be able to communicate with the specified IP address.

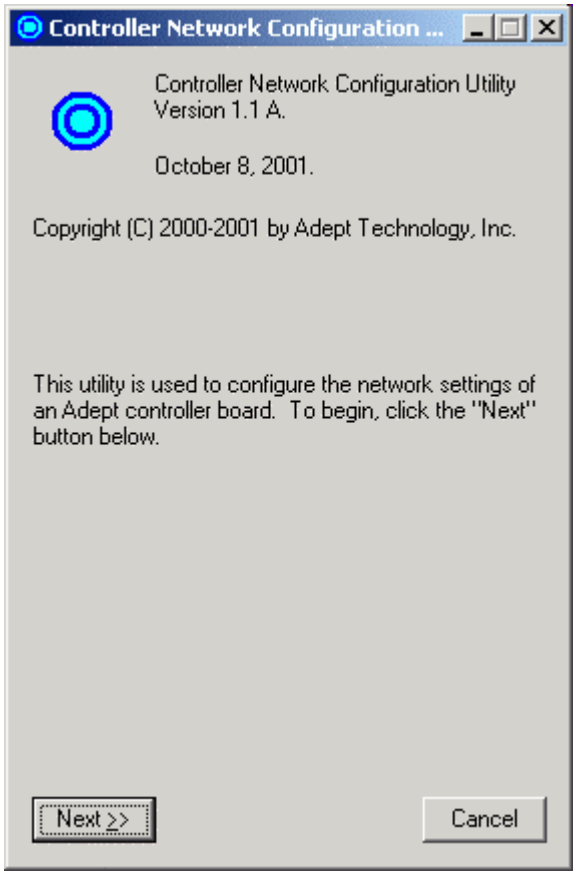
Now, using the Controller Network Configuration Utility, you can set the IP address (and subnet mask) of the Adept controller regardless of the current IP address of the controller and of the PC. You can also use the tool to set other Adept controller startup features such as use of AdeptWindows PC as the default system user interface, and enabling auto-start (i.e., use of the disk file AUTO.V2). You can record the IP address of the PC so it will be accessed as the default NFS server for the controller. Lastly, you can initiate a reboot of the Adept controller, so that the configuration changes will take effect.

Note: The Controller Network Configuration Utility depends on UDP broadcasts for its functioning. Therefore, the Adept controller and the PC running the configuration utility must exist on the same LAN segment, either via a Cat 5 shielded cross-over cable (provided with the AdeptWindows product) or a simple network hub. Some network hubs, most network switches and bridges, and all network routers prevent the transmission of UDP broadcasts.

To Run the Controller Network Configuration Utility:

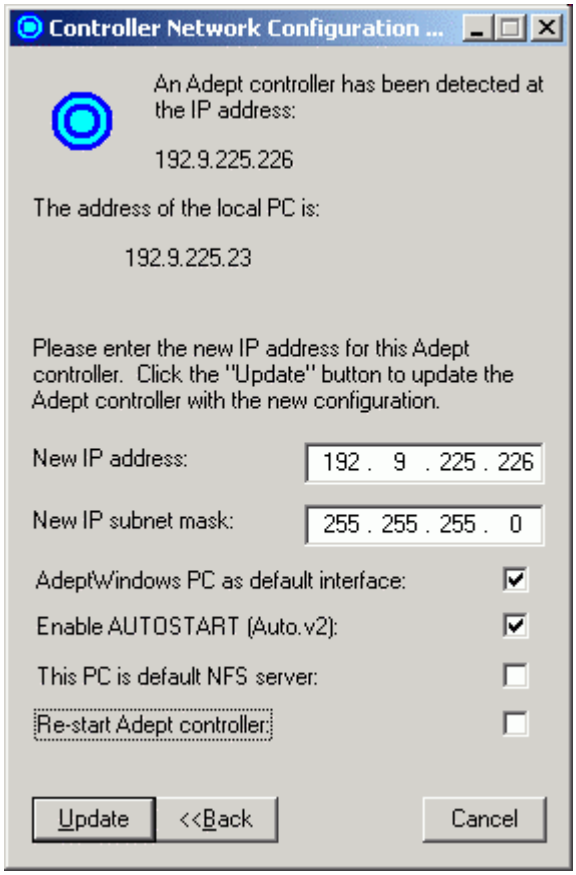
1. Select **Start => Programs => Adept => Controller Network Configuration Utility** from the Windows taskbar. The following window is displayed:

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2. Click on **Next**. The Controller Network Configuration Utility prompts you to make sure the Adept controller is turned off.
3. Turn off the Adept controller.
4. Click on **Next**. The Controller Network Configuration Utility prompts you to turn the Adept controller back on and wait until it boots completely.
5. Turn the Adept controller on. Once the controller is detected, the following window is displayed.

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6. Choose one of the following:

If you want to...	Then...
Use the IP address shown	Click on **Update**.
Change the IP address shown	Enter the new IP address and subnet mask. Click on **Update**.

Setting the DIP Switches on the Controller

The factory default settings for hardware DIP switch SW1 are:

SW 4	SW 3	SW 2	SW 1	Interpretation
OFF	OFF	OFF	OFF	CPU #1, normal operation (per NVRAM settings)

With the factory DIP switch setting, the system will read the configuration data from the NVRAM chip. This allows you to set all the configuration options in software without changing the physical DIP switches. See the description of the CONFIG_C program in the Instructions for Adept Utility Programs for details.

Note: When the hardware or software switches on the Adept controller are set to use the AdeptWindows interface, the AdeptWindows option must be enabled (see

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"Installing the AdeptWindows License" on page 13 for details). Otherwise, the connection will succeed but the other installed license options on the Adept controller will not be available.

If you decide to use the hardware DIP switch settings, rather than the software switches in NVRAM, you must first decide which interface you want to use—serial or Ethernet—and then use the appropriate DIP switch settings shown in the *Adept MV Controller User's Guide* or *SmartController User's Guide* for details.

Using PING to Test the Ethernet Setup

To test the Ethernet connection, it is useful to know how to "PING" between the PC and the controller. The PING command sends a quick message between the two devices to verify that the Ethernet connection is working.

Pinging the Adept Controller

Pinging the PC

Pinging the Adept Controller

To test the communication from the PC to the Adept controller, you can execute the PING command at the PC's MS-DOS prompt. From the Windows taskbar, select:

Start => Programs => MS DOS Prompt

At the MS-DOS prompt, type the PING command followed by the IP address (or node name) for the Adept controller. If you do not know the IP address of the controller, you will have to scan for it using AdeptWindows.

For example, to PING a controller with the IP address 172.16.113.170,type:

```
PING 172.16.113.170
```

If the PING is successful, a message similar to the following is displayed:

```
Pinging 172.16.113.170 with 32 bytes of data:

Reply from 172.16.113.170: bytes=32 time=39ms TTL=15

Reply from 172.16.113.170: bytes=32 time=39ms TTL=15

Reply from 172.16.113.170: bytes=32 time=39ms TTL=15
```

Pinging the PC

You can also use the PING command to test the communication from the Adept controller to your PC. At the Monitor prompt, type the PING command followed by the IP address (or node name) for the PC:

PING 172.16.200.1

If the PING is successful, the following message is displayed:

```
.Success
```

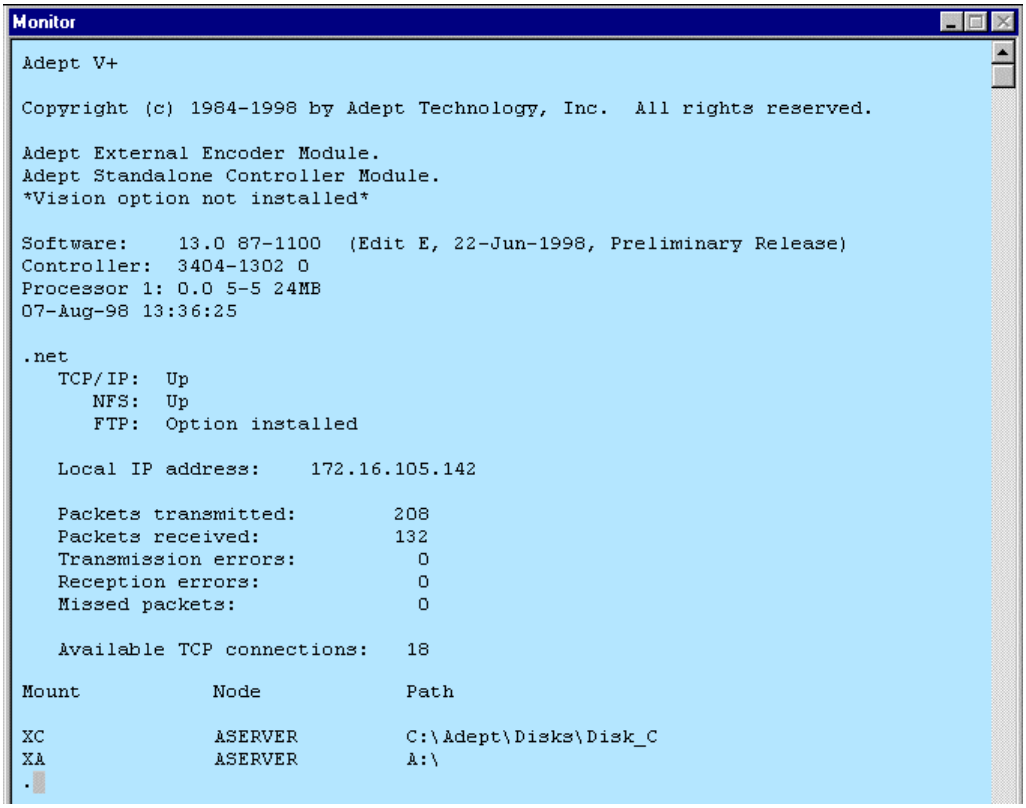
Testing the NFS Mounted Drives

The NET command can be used to display the status of any mounted drives. At the dot prompt, type

```
NET
```

The network status is displayed:

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Once you have verified that the correct drives are mounted, you can list the files on any of the mounted drives by typing:

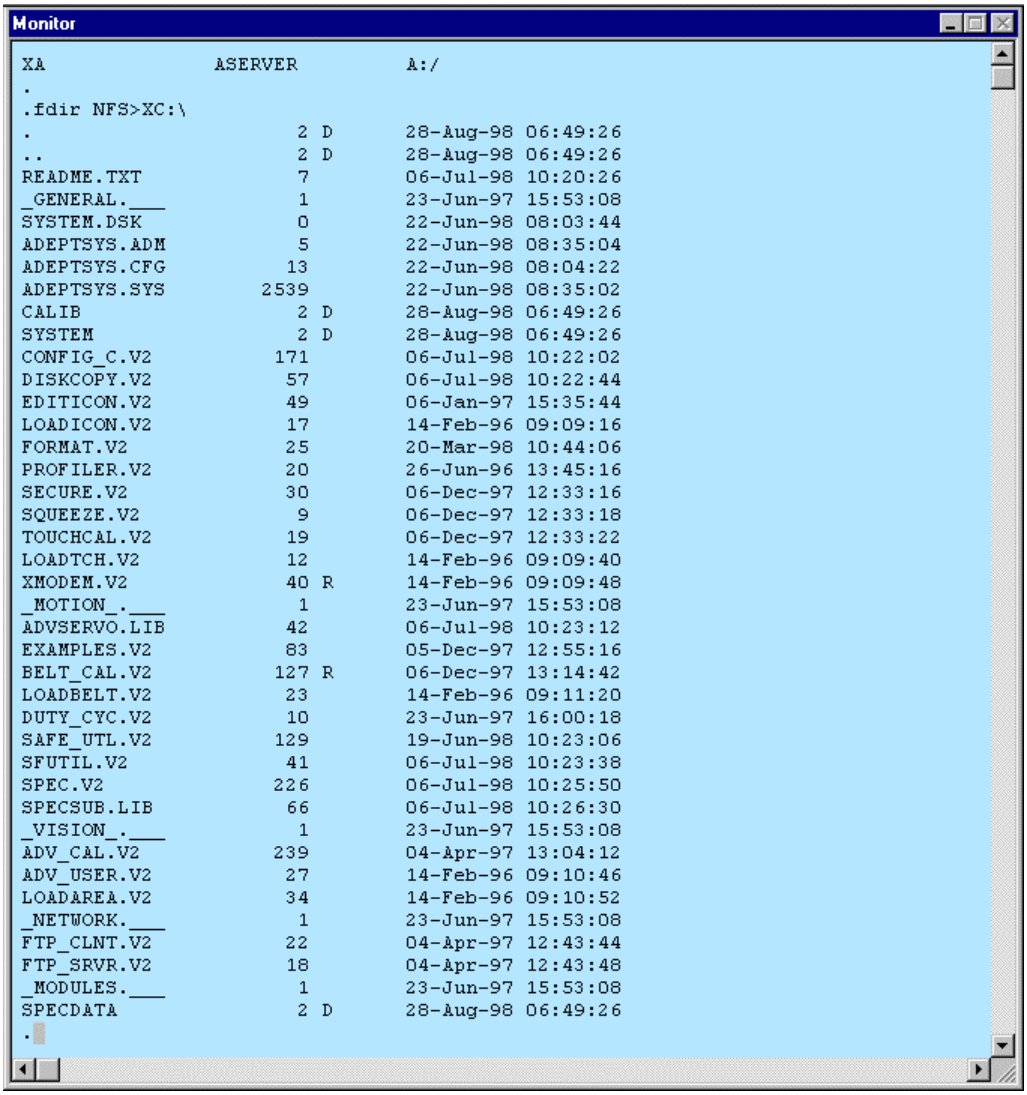
```
fdir NFS>[MOUNT]:\
```

where [MOUNT] is the mount name assigned to the drive. For example, in Figure 2-39 the mount name XC is assigned to the directory C:\ADEPT\DISKS\DISK_C. So, to display a list of the files in that directory, simply type:

```
dir NFS>XC:\
```

A directory listing similar to the following is displayed.

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