Adding Network Printer

Purpose

Add a network printer to NPRINTER Manager to allow network users to share a printer physically attached to a Windows** 95** workstation running the Novell* NetWare* Client* 32*.   After the procedure steps are completed (see "Add Network Printer"), network users can capture the printer object or print queue object, as they would any other NDS* printing object.

NDS Printer

When you choose [...], you can browse to a printer object or print queue object.   However, an object displayed might not be available if it is incompatible with your set up or if its print server is not running.

Bindery-based Printer

When you choose [...], you can browse to a print server and the attached printer.   The print servers displayed are all those which are advertising.   But when you choose a print server, only printers you have rights to will display.

Activate printer when NPRINTER Manager loads

Checking the box tells NPRINTER Manager to load that printer every time NPRINTER Manager loads.   If the box is unchecked, the printer being added will only remain active until the workstation is rebooted, and the printer must be added again to the program before it will be available as a shared printer to network users.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

See also 🛈

Add a Network Printer

Purpose

Add a network printer to NPRINTER Manager to allow network users to share a printer physically attached to a Windows** 95** workstation running the Novell*NetWare* Client* 32.*   After you complete these steps, network users will be able to capture the associated printer object or print queue object, as they would for any other NDS* printer or print queue object.

Add Network Printer

1. At the workstation, log in to the network as any user.

2. Choose NPTWIN95 (usually located in the **SYS\PUBLIC\WIN95** folder on your server).

3. (Conditional) If you have previously run NPTWIN95 and added a printer, from the **NetWare Nprinter Manger** window, choose the **Printers** menu, and then choose **Add**.

4. Select an NDS printer object or choose a bindery-based print server and printer.

   Note: To complete either text box, you must choose [...].

5. (Conditional) If a **Set Properties** dialog box displays, set printing properties now in the displayed box, and choose **OK**.

   Note: The dialog box will only display if the selected printer was previously defined as "Other/Unknown."

6. If you want NPRINTER Manager to load this printer the next time NPRINTER Manager runs, check **Activate printer when Nprinter Manager loads**.

   If the box is unchecked, the printer being added will only remain active for this Windows 95 session, and the printer must be added again to the program before it will be available as a shared printer to network users.

7. Choose **OK**.

8. If successfully set up, a screen displays with printer-specific information.   If the information is not correct, do one of the following.

▪   If this is the only printer added to NPRINTER Manager, from the **Printers** menu, choose **Clear**, and then choose **Add** and add the printer again.

▪   If there are other printers added to NPRINTER Manager, (1) from the **Printers** menu, choose **Properties** and uncheck **Activate printer when Nprinter Manager loads**, (2) choose **Remove**, and (3) add the printer again.

9. From the **Printers** menu, choose **Exit**.   (This exits the NPRINTER Manager, but leaves the NLM* programs required for network printing loaded.)

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

Add Network Printer Overview

Purpose

The "Add Network Printer" dialog box adds the printer to the NPRINTER Manager program, either temporarily or permanently.

Add Network Printer

Add a network printer to NPRINTER Manager   to allow network users to share a printer physically attached to a Windows 95 workstation running the Novell* NetWare* Client* 32*.

Set Printing Properties

Network supervisors, during the initial Print Services setup, may configure a printer as "Other/Unknown."   When printers have been configured as "Other/Unknown," NPRINTER Manger requires additional information about the printer and requests it by displaying   the **Set Properties** dialog box.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

Add NPRINTER Manager to the Startup Folder

Purpose

To automatically load NPRINTER Manager when you run the Windows** 95** workstation, add NPTWIN95 to the workstation **StartUp** folder.

Add NPRINTER to the StartUp Folder

1. From the Windows 95 desktop, choose **Start**, and then point to **Settings**.

2. Choose **Taskbar**, and then choose the **Start Menu Programs** tab.

3. Choose **Add**, and then choose **Browse**.

4. Navigate to the NPTWIN95 file in the **SYS\PUBLIC\WIN95** folder on the server, double-click it, and then add **/EXIT** to the end of the text in **Command line**.

   For example, if the server was named SERV1, the **Command line** would read:

   > SERV1_SYS:PUBLIC\WIN95\NPTWIN95.EXE/EXIT

   This will close the **NetWare Nprinter Manager** window, but will leave the NLM* programs running in the background.   Using the /EXIT option in this instance allows users the benefits of the loaded NPRINTER without being aware of its existence.

5. Choose **Next**,and then double-click **StartUp**.

6. Type the name that you want to see on the **StartUp** folder menu (like NPRINTER), and then choose **Finish**.   If Windows prompts you to choose an icon, choose one, and then choose **Finish**.

7. Choose **OK**.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

Related Topics

Add NPRINTER Manager to the StartUp Folder

Avoid Logging In Before Running NPRINTER Manager

Avoid Logging In Before Running NPRINTER Manager

Purpose

By copying the required files to a local drive, network users can access the shared printer even when the workstation user is not logged in... This is a printing management decision, and does not effect the performance of   NPRINTER Manager once the program is run..   If the required files are moved to the local drive, the only task at the workstation is to run NPRINTER Manager.   This is accomplished by turning on the hardware, canceling the log in, and running NPTWIN95.EXE from the local drive in **My Computer.**   If the NPTWIN95.EXE is added to the StartUp   folder, then it will run automatically after canceling the log in.

Copying Files to the Local Drive

To ensure the proper execution of the program, you must copy all associated files to the same directory as the one containing the executable file on your local drive.

1. From the Windows** 95** desktop, open **My Computer**, choose a local drive, and create the folder **Nprinter**.

2. Choose **Network Neighborhood** and then navigate to the **SYS\PUBLIC\WIN95** folder on the server.

3. Copy the following files from the **SYS\PUBLIC\WIN95** folder to the **Nprinter** folder.

- NPTWIN95.EXE (this usually displays without the .EXE extension)
- NPTWIN95.DLL
- NPTWIN95.HLP
- NPTR95.NLM
- NPTDRV95.NLM
- NPTDRV95.MSG
- NRDDLL95.DLL
- NWADLG95.DLL
- NWADMR95.DLL
- NWCOMN95.DLL
- BIDS45F.DLL
- CW3215.DLL
- OWL252F.DLL

4. (Conditional)   If you have previously added NPTWIN95.EXE to your Startup folder or   created a shortcut to the program, update the shortcut target string or the command line in the Startup folder now.   To update the shortcut:

   a. Highlight the shortcut and right-click.

   b. Choose **Properties**.

   c. Choose **Shortcut**.

   d. Edit **Target String** to point to the local drive, and then add the **/EXIT** option on the end.

   e. This will close the **NetWare Nprinter Manager** window, but will leave the NLM* programs running in the background.   Using the /EXIT option in this instance allows users the benefits of the loaded NPRINTER without being aware of its existence.

   f. Choose **OK**.

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Hardware and Configuration Requirements

Purpose

NPRINTER Manager (NPTWIN95) is for clients running Windows** 95** only.

Hardware

- Intel architecture 386 or 486, or   Pentium** chip workstation
- Printer cabled to the workstation as if ready for local printing

Software Configuration

- An initial Print Services Network Setup, including the association of a print server object, printer object and print queue object
- PSERVER.NLM loaded on the server
- Windows 95 operating system running on the workstation
- Novell* NetWare* Client* 32* running on the workstation

   Note: NPTWIN95 is not compatible with the Microsoft** NetWare Client

Resource Utilization

NPRINTER Manager has a configurable buffer from 3 KB to 60 KB. The default buffer size is 3 KB.   Buffer sizes can be modified in either PCONSOLE or NetWare Administrator

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Managing NPRINTER Manager Overview

Purpose

This screen provides an overview to the procedures available for managing NPRINTER Manager.

Add NPRINTER Manager to the StartUp Folder

Automatically load NPRINTER when you start Windows** 95** by adding NPTWIN95 to the workstation **StartUp** folder.

Manage Printers in NPRINTER Manager

Once you have added one or more printers to NPRINTER Manager, you can manage those printers from within NPRINTER Manager by choosing the **Printers** menu.

View Printer Status

View a printer's status to determine whether the printer is running or whether there is a problem.

Avoid Logging In Before Running NPRINTER Manager

By copying the required files to a local drive, network users can access the shared printer even when the workstation user is not logged in... After the initial NPRINTER Manager setup, the only requirement at the workstation is to run NPRINTER Manager.   This is accomplished by turning on the hardware, canceling the log in, and running NPTWIN95.EXE from the local drive in **My Computer.**   If the NPTWIN95.EXE is added to the StartUp   folder, then it will run automatically after canceling the log in.

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Manage Printers in NPRINTER Manager

Purpose

Once you have added one or more printers to NPRINTER Manager, you can manage those printers from within the program.

Manage Printers Using NPRINTER's Printer Menu

1. From the **NetWare NPRINTER Manager** window, make the printer's information window active.

2. Choose **Printers** and then choose one of the following:

▪   **Properties** to view or edit current printer configuration, or to specify whether or not to activate this printer when NPRINTER Manager loads

▪   **Remove** to unload the currently selected printer from this NPRINTER Manager session.   (The printer's information window will no longer display on the screen, and the printer is unavailable to network users.)

▪   **Remove All** to unload all printers from this NPRINTER Manager session.   (The printers' information windows will no longer display on the screen, and the printers are unavailable to network users.)

▪   **Clear** to remove all printers from this NPRINTER Manager session and to clear all of the boxes checked **Activate printer when Nprinter Manager loads**.   (When NPRINTER Manager runs again, no printer information screens will be displayed in the program window.)

▪   **Exit** to exit NPRINTER Manager to close the program window, but not affect network users ability to print to the shared printer.   (Exiting leaves the NLM* programs required for printing loaded.)

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Related Topics

Add a network printer

Manage printers in NPRINTER Manger

Add NPRINTER Manager to the StartUp Folder

Avoid Logging In Before Running NPRINTER Manager

NPRINTER Manager Help Topics

Overview

Adding Network Printers

Managing NPRINTER Manager

Reference

See also 🛈

NPRINTER Manager Overview

Overview

If the hardware and configuration requirements are met (<u>"Hardware and Configuration Requirements"</u>), you can make a printer attached to workstation available as a network printer using NPRINTER Manager.   Running the executable file NPTWIN95 (usually located in the SYS\PUBLIC\WIN95 folder on your server) will start NPRINTER Manager and open the **NetWare Nprinter Manager** window..

When NPRINTER Manager runs, if no printers have been added to the program, the **Add Network Printer** dialog box displays.   Adding a printer to NPRINTER Manager makes it available to network users.   Any printer you add will remain available to the network during that session of Windows** 95**, even if you exit the **NetWare Nprinter Manager** window.   (The NLM* programs required for network printing remain loaded until you reboot the workstation.)   You can also specify that the printer will be activated whenever NPRINTER Manager starts.   When NPRINTER Manager starts, it checks to see which printers you have specified should be loaded.   If a specified printer's print server is running and the printer is free, the program activates the printer and displays its information in the **NetWare* Nprinter Manager** window.

You can add additional printers by running NPRINTER Manager, choosing the **Printers** menu, choosing **Add**, and completing the **Add Network Printer** dialog box.   When more than one printer is loaded, the printer-specific information windows are tiled in the **NetWare Nprinter Manager** window.

NPRINTER Manager will support up to seven printers attached to the Windows 95 workstation (three to   LPT ports and four to COM ports).

You can customize how network printing for NPRINTER Manager runs on the workstation.   To avoid having to navigate to the **SYS\PUBLIC\WIN95** folder every time you want to run NPRINTER Manager, create a shortcut in the **StartUp** folder to NPTWIN95.   To avoid having to log in before running NPRINTER Manager, copy the required files to a local drive.

For more information on NPRINTER, see <u>"NPRINTER Manager Help Topics."</u>

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Choose a Print Server and Printer

Purpose

You need to choose a printer server and printer only if you choose **Bindery-based Printer** in the **Add Network Printer** dialog box..   (If you choose **NDS Printer**, you need to choose an NDS* printer object.)

Choose a Print Server and Printer

1. From the **NetWare Nprinter Manager** window, choose **Printers** and then choose **Add.**

2. In the **Add Network Printer** dialog box, choose **Bindery-based Printer** and then choose [...] to browse.

    The print servers displayed are all those which are advertising.   But when you choose a print server, only printers you have rights to will display.

3. Choose an active print server from the list.

4. Choose an attached printer from the list, and then choose **OK**.

5. (Conditional)   If you want Nprinter Manager to load this printer the next time the program is run, check **Activate printer when Nprinter Manager loads**.

6. Choose **OK**.

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Choosing a Print Server and Printer

Purpose

The Print Server and printer name is defined during the initial print setup for this printer (prior to running NetWare* Nprinter Manager).   By selecting the printer server and the printer (whatever name you have decided to give the printer attached to the workstation), you are associating the printer name with the printer hardware for the first time.. You can use this dialog box to choose the print server that the attached printer is associated with, and then select the printer.   For more information, see the procedures in "Choose a Print Server and Printer."

Active Print Servers

Lists all print servers advertising.   Choose the print server that you associated with this printer during your initial print setup.

Attached Printers

Lists all printer names associated with the selected print server.   Choose the printer name you created for this printer.   If the printer name does not display, you may have forgotten to unload and reload PSERVER.NLM prior to running NPRINTER Manager.

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Choose an NDS Printer Object

Purpose

NDS* printing objects are defined during the initial print setup for a printer (prior to running NetWare Nprinter Manager).   By selecting a printer object, you are associating the object to the printer hardware for the first time.   You need to choose an NDS printer object only if you choose **NDS Printer** in the **Add Network Printer** dialog box.   (If you choose **Bindery-based Printer**, you need to choose a print server and printer.)

Print Server and Printer

1. From the **NetWare Nprinter Manager** window, choose **Printers** and then choose **Add**.

2. In the **Add Network Printer** dialog box, choose **NDS Printer** and then choose ⬚ to browse.

    An object displayed might not be available if it is incompatible with your set up or if its print server is not running.

3. Browse in **Directory Context** until the printer object you created for this printer during initial setup displays in the **Objects** list.

4. From the **Objects**,list, choose the printer object and then choose **OK**.

5. (Conditional)   If you want Nprinter Manager to load this printer the next time the program is run, check **Activate printer when Nprinter Manager loads**.

6. Choose **OK**.

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Setting Properties

Purpose

During the initial Print Services setup (prior to running NPRINTER Manager), if you configured the printer object (or printer name) as "Other/Unknown," NPRINTER Manager requires additional information about the printer at this time. It requests the information by displaying   the **Set Properties** dialog box.   For more information, see "Set Properties."

Port

Choose an LPT or COM port based on your printer requirements.

Interrupt

Choose an interrupt setting or **Polled**.   Polled mode is the default setting for Interrupts.   However, using dedicated interrupts usually provides better printing performance.

If you do not know what interrupt to set or if you are having interrupt conflicts, try using the Polled mode.   A Polled mode printer may not be as fast as an interrupt-driven printer, but it avoids the difficulty of identifying an available interrupt and the conflicts that can arise from choosing an incorrect interrupt.

Buffer (KB)

Set the buffer from 3 KB to 60 KB.   The default is 3 KB.

Baud Rate

For serial printers only, set this according to your hardware requirements.

Data Bits

For serial printers only, set this according to your hardware requirements.

Stop Bits

For serial printers only, set this according to your hardware requirements.

Parity

For serial printers only, set this according to your hardware requirements.

XON/XOFF

For serial printers only, check this box if XON is part of your hardware requirements.

Set Properties

Purpose

During the initial Print Services setup (prior to running NPRINTER Manager), if you configured the printer object (or printer name) as "Other/Unknown," NPRINTER Manager requires additional information about the printer at this time. It requests the information by displaying   the **Set Properties** dialog box.

Set Printing Properties

Modify the printer configuration dialog box displayed.

1. Choose an LPT or COM port based on your hardware requirements.

2. Choose an interrupt setting or **Polled**

    Polled mode is the default setting for Interrupts.   However, using dedicated interrupts usually provides better printing performance.

    If you do not know what interrupt to set or if you are having interrupt conflicts, try using the Polled mode.   A Polled mode printer may not be as fast as an interrupt-driven printer, but it avoids the difficulty of identifying an available interrupt and the conflicts that can arise from choosing an incorrect interrupt.

3. Choose a buffer setting from 3 KB to 60 KB (or accept the default setting).

4. (Conditional) If you chose a COM port, set the following to correspond with your serial printer settings:

- **Baud Rate**
- **Data Bits**
- **Stop Bits**
- **Parity**
- **XON/XOFF**

5. Choose **OK**.

■
View Printer Status

Purpose

View a printer's status to determine whether the printer is running or whether there is a problem.

View Printer Status

1. From the **NetWare Nprinter Manager** window, make the printer's information window active.

2. View **Nprinter Status** to determine whether the printer's NPRINTER (a group of NLM* programs that run for each added printer) has made a connection to the print server.

■   **Not Connected**, The printer's NPRINTER did not connect to the print server.

■   **Waiting for Print Job**, The printer is ready to be shared.   (Network users can now capture a port to this printer and begin printing to it.)

■   **Ready (Waiting for Printer)**, Either there is printer hardware problem or the printer is currently busy.

■   **Printing**, A job is being printed.

■   **Paused**, A printing utility has been used to pause the printer, and it will remain paused until another printing utility is used to remove the pause.

3. View **Printer Status** to determine the condition of the hardware.

■   **Offline**, The printer is offline.

■   **Out of Paper**, The printer might be out of paper or there might be another hardware problem.

■   **Printer Running**, The hardware is ready to receive print jobs.

4. From the **Printers** menu, choose **Exit**.   (This exits NPRINTER Manager, but leaves the NLM programs required for printing loaded.)

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

Banner Base

Head1

Base

1. List1

   List1 Text

   1. List2

      List2 Text

   Link

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Trademarks

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Related Topics

<u>Manage Printers in NPRINTER</u>

All other tasks can be completed using the PCONSOLE utility.   See "PCONSOLE" in *Utilities Reference*.

When to Use NPRINTER Manager

Purpose

Use NPRINTER Manager to allow network users to share a printer attached to a Windows** 95** workstation running the Novell* NetWare* Client* 32*

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.