



Tech Info Library

LaserWriter 16/600 PS: NetWare 4.1 Printing Issues (1/96)

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TOPIC -----

I cannot set up our LaserWriter 16/600 PS printer to work on a NetWare 4.1 Server. Everything worked fine under Netware 3.1x.

DISCUSSION -----

You can configure the printer in PSERVER mode by using PCONSOLE. The steps are outlined below.

Note:

You can only print with the banner page turned "off", and you must verify that the Netware Ethernet port is set to "AutoSelect" using the Apple Printer Utility.

You also have the option to print to the LaserWriter 16/600 by installing and configuring Netware for the Macintosh. You should contact Novell for instructions on how to do that.

NetWare v4.10 QuickStart

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Setting up PSERVER operating mode

Background:

The change from NetWare v3.xx to NetWare v4.xx introduced the concept of a hierarchical tree database, called NetWare Directory Services (NDS). This object-oriented database is significantly different than the flat file style of database used in NetWare v3.xx (called the Bindery). In order for NDS to be backward compatible with the old Bindery, and code that may rely on the Bindery (such as printer ROM code), NetWare has a command called SET BINDERY CONTEXT, that allows a single level of the NDS directory tree to be specified as a virtual Bindery location. A NetWare v4.xx server's bindery context can be found by typing SET BINDERY CONTEXT at the console prompt.

The super user account name has changed with NetWare v4.xx to Admin from NetWare v3.xx's name of Supervisor. The Supervisor account still exists in NetWare v4.xx for backwards compatibility, but it can't actually be seen in the NDS

directory tree. The Admin account gives you full access to the entire NetWare Directory Services tree, the Supervisor account will only let you see objects that are in its Bindery context location in the tree. To follow the steps listed below, you should use the Admin NDS account.

Summary:

- Create a print server.
- Create a printer from within the print server configuration menu options.
- Create a print queue from within the printer configuration menu options.
- Turn printer off and then back on to have changes take effect.

QuickStart:

Step 1

Use the Apple Printer Utility to print a configuration page.

Note:

There are occasions when the printer name on the startup page differs from the printer name on the configuration page. If this happens, the name on the configuration page is the correct name of the printer.

Step 2

Type SET BINDERY CONTEXT at the server's console prompt, to ensure that the context has been set. Write the context down, as it will be needed later.

Step 3

Login to a file server from a DOS client using the Admin account.

Step 4

At the DOS prompt, type PCONSOLE, and press Enter.

Step 5

Use the arrow keys to highlight Change Context in the menu, and press Enter.

Step 6

Change the PCONSOLE utility's context to match the context set on the server (what you wrote down earlier), by pressing the Insert key, and selecting the correct context.

Step 7

Use the arrow keys to highlight Print Servers in the menu, and press Enter.

Step 8

Press the Insert key, then type the NetWare Printer Name (provided on the printer's startup page), and press Enter.

Note:

Even though the startup page calls this name the NetWare Printer Name, it really will be used as the NetWare Print Server name.

Step 9

Select the name of the print server you specified in the previous procedure and press Enter.

Step 10

Use the arrow keys to highlight Printers in the Print Server Information menu, and press Enter (this will let you configure the new print server).

Step 11

Press the Insert key to display printers in your current context in the NetWare Directory Services tree. For this example, we will create a new printer.

Step 12

Press the Insert key to create a new printer in the NetWare Directory Services tree (the context listed at the top of the screen should still list the server's bindery context that was set earlier, if not, change to the correct context *before* creating the printer!).

Step 13

At the prompt, type the new printer name and press Enter. This name will be used for reference, so use a name that will be meaningful to the NetWare administrator, or other users who may wish to check on the printer's status. This step will create the printer object in the NDS tree.

Step 14

Select the name of the printer you specified in the previous procedure and press Enter (this will add the printer to the Serviced Printer list of the print server).

Step 15

From the Serviced Printers menu list, select the name of the printer you specified in the previous procedure, and press Enter. This will bring up a Printer Configuration menu.

Step 16

From the Printer Configuration menu, use the arrow keys to highlight Printer type, and press Enter.

Step 17

From the Printer Type menu, use the arrow keys to highlight Other/Unknown, and press Enter. This will make your selection active, and bring you back to the Printer Configuration menu.

Step 18

If most of the printing to this printer will be Postscript, and not PCL, then from the Printer Configuration menu, use the arrow keys to highlight Banner type, and change the banner type from Text to Postscript. This will limit the number of times the printer will have to switch modes between PCL and PostScript.

Step 19

From the Printer Configuration menu, use the arrow keys to highlight Print queues assigned, and press Enter. This will bring up the Print Queue menu list.

Step 20

Press the Insert key to display print queues in your current context in the NetWare Directory Services tree. For this example, we will create a new queue.

Step 21

Press the Insert key to create a new print queue in the NetWare Directory Services tree (the context listed at the top of the screen should still list the server's bindery context that was set earlier, if not, change to the correct context *before* creating the print queue!).

Step 22

At the prompt, type the new queue name and press Enter. You will then be asked for the NetWare volume to store your NetWare print queue jobs on. With NetWare v4.xx, the NetWare queue does not have to exist on the SYS volume -- you can place the queue on any volume you want. Use the insert key to select the volume from the directory tree (you may need to navigate to a different context to select the volume desired).

Step 23

Select the name of the queue you specified in the previous procedure and press Enter (this will add the queue to the Print Queue list of the printer).

Step 24

Press the Escape key until you are prompted to save your changes.

Step 25

Turn the printer off, and then back on again, to initialize the printer, and have it connect to its printer definition within NetWare.

Step 26

Submit a print job to the printer to ensure it is working. If printing from a PC, it is highly recommended that you use the FONTLIST.PS file in SYS:SYSTEM\NW-MAC\PSUTILS, since it is a known good file, and you will not add additional variables like misconfigured applications or drivers. Once you know that printing is working through the queue, you can use more complex print setups to ensure your environment is configured correctly.

Note:

These series of steps is only one of many ways that can be used to create the same configuration. For example, rather than creating all the printers and print queues from within the print server main menu option, many administrators may choose to create the queues and printers from the main menu options first, then connect the queues and the printers to the print server afterward. The same result will be reached in each case, as long as the information in each entry is entered the same way in whatever approach is taken.

The Tech Info Library article titled "Locating Vendor Information" can help you search for a particular vendor's address and phone number.

Article Change History:

- 24 Jan 1996 - Changed title to better reflect article contents.
- 19 Jul 1995 - Reworded for clarity and technical accuracy
- 15 May 1995 - Updated for clarity.

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