NIPrint 3.2/2.2 README.WRI

10-4-96

Thank you for looking at the NIPrint DEMO, or for purchasing NIPrint.

If you are looking at the NIPrint DEMO: Note that you can use this DEMO for 21 days. To use the demo after the 21-day period you will need to license the DEMO. You can do this by contacting your dealer, or by following the instructions on the ORDER.TXT file included with this DEMO.

If you have purchased NIPrint, follow the licensing instructions in the manual, or the licensing documentation that came with your NIPrint.

If you are looking at the NIPrint DEMO and need help installing the product, look in the NIPrint help file for information.

NOTE: WHEN INSTALLING NIPRNT, DO NOT EXTRACT THE ARCHIVE FILES INTO A "NIPRINT" DIRECTORY. YOU SHOULD COPY THE DEMO ARCHIVE FILE INTO A TEMP DIRECTORY, EXPAND IT AND RUN INSTALL. YOU MUST RUN INSTALL FOR THE NIPRINT DEMO TO FUNTION.

NIPrint 32

NIPrint now contains both a complete 16-bit version for Windows 3.x and a complete 32-bit version for Windows NT and Windows 95. NIPrint's install will auto-detect your working environment and offer to install the appropriate version. We recommend you use the 32-bit version if you are using Windows 95 or Windows NT, and use the 16-bit version if you are using Windows 3.x.

You will note that NIPrint now contains 2 version numbers. NIPrint 2.x is the 16-bit version, and NIPrint 3.x is the 32-bit version.

NIPRINT 3.x

NIPrint 3.x is a compete 32-bit version of the NIPrint LPD/LPR for Windows. Because NIPrint 3.0 is 32-bit, it has a number of additional features that were not possible in a 16-bit environment. Here is an explanation of the new features:

Additional print queue options

For NIPrint to NIPrint printing, you can now view and delete print jobs in either direction. NIPrint will also now display print queue information if queried from UNIX or any other LPR based system.

Trusted users

NIPrint allows you to define security levels for local print. Pressing the "Trusted users" button in the "Configuration" -> "General Settings" dialog allows you to set the following security for local print:

Allow everybody to use local print - as the name indicates, this allows every body to use the LPD service for local print. This is for every local printer configured. If this option is checked, the security list is grayed out.

Security list

User name or IP address - When you un-check the "Allow everybody to use local print" checkbox username or IP address editor becomes active. You can enter either:

A user name (this will be resolved in the following order 1st using a local host file, 2nd using

DNS (if configured)) or,

An IP address (this will be used directly without any resolution).

Edit hosts file
This dialog can be accessed by pressing the "Edit hosts file" button from the "Configuration" -> "General Settings" dialog. The dialog allows you to edit the local hosts file.

Use common settings for all users
When using Windows 95 or Windows NT, selecting this option will allow NIPrint to use common configuration information in the registry for all users. In other words, if "John" logs into a Windows 95 system and configures a remote NIPrint printer called "laser", and logs out, and then Rich logs into the same Windows 95 system, the print "laser" will be available for Rich. When this setting is un-selected, each user will maintain their own NIPrint settings in the registry.

Show application in the Windows tray
If you are running Windows 95, checking this item will display the NIPrint icon in the Tray, as opposed to the status bar. When the icon is displayed on the Tray, it will not be displayed in the ALT-TAB menu (unless the program window is active).

Remote Print Advanced dialog
LPD port (default=515) - this item allows you to select a different port for LPR to send request to. The default is 515. This should not be changed unless you specifically have a LPD that listens on an alternate port. The default is 515.

Print job transfer order - these items allow you to reverse the order that NIPrint sends print jobs in. By default, NIPrint send the command file first, then the data file. Some LPD hosts can not handle this ordering, and require the data file before the command file.

Running NIPrint as a service under Windows NT
When installing NIPrint in the Windows NT environment, the installation program will ask if it should run NIPrint as a service.

You can also add NIPrint as service after you have installed NIPrint by double clicking on the "Install NIPrint as NT Service icon" in the NIPrint group.

This utility allows you to install or remove NIPrint as a service in NT.

Once NIPrint is added as a service, it will start and be accessible to all NT users once they log into the NT system. When the NT system is running, but no user is logged in, if NIPrint has been set up as service that starts automatically, it will be running in the background.

To remove access to the NIPrint program for non-administrator users, remove permission to "Allow Service to interact with desktop". This is done from the Services dialog ("Control Panel" -> "Services"), by selecting the NIPrint service and pressing the "Startup" button.

USING NIPRINT WITH LPD ENABLED PRINTERS (i.e. HP-JetDirect, Emulux, etc.)
The "Check print queue before transfer" option in each remote printer's "Advanced Settings" makes pre-print queue checking optional. This provides greater compatibility with stand alone network printers with limited LPD/LPR functionality.

The default is have the check box checked on. In other words, to enable remote queue checking prior to sending a print job. Un-check this option if you are using a standalone network printer (LPD based print device or printers with LPD/LPR cards installed) that can only service one TCP

port at a time.

NIPrint works with all manufacturer's embedded lpd printers, cards, boxes that we've encountered (HP JetDirect, Lantronix, Tektronix, Xerox, Emulex, etc.). What can be challenging is knowing the appropriate printer or queue name that lets you access the TCP/IP lpd capability. This is the name you need to use in Remote Print Configuration in NIPrint. Since these devices are made to work in many environments (Netware, AppleTalk, Unix), the documentation doesn't usually say "Here's the name you use to access lpd in so-and-so mode", so it's hard to get that info without a call or two to the manufacturer, so here's as much information as we've gathered in order to at least provide a direction or example (listed by manufacturer):

HP JetDirect:
May be found as an internal device in some printers, or an external box. Make sure that lpd capability exists (the box may require an additional SIMM that has lpd embedded). The name is typically referred to as "host name" on the status pages that you can print. If it doesn't list the host name, it's possible that it's dynamic, which means that you can choose your own name in Remote Print Configuration (but it's best to keep it short and simple).

Lantronix:
For the MPS devices, the name is MPS_(6 numbers)_(mode). For example:
MPS_0D9ED3_PS (for PostScript)
MPS_0D9ED3_PCL (for PCL)
MPS_0D9ED3_TEXT (for Unix text CR/LF conversion)

Note: If you are using a different Lantronix model, the "MPS" may be replaced by different characters (i.e. "EPS").

Tektronix:
PS (PostScript)
AUTO (we assume binary or text conversion)

Xerox (DocuTec):
lp

Emulex:
TEXT (Unix text CR/LF)
PASSTHRU (normal binary)

Other Products from Network Instruments:

Windows Tools for Network Analysis:

Observer - Microsoft Windows Based Protocol Analyzer
With Observer, a LAN user or network administrator can view their LAN more clearly, see network traffic in real time and, with this new information, make network decisions based on facts not guesswork. Observer allows a user or administrator to monitor network bandwidth utilization, collect statistics by user, packet size or protocols, and capture, view and decode LAN traffic. Once you use Observer, you will wonder how you ever got along without this powerful tool. Observer
removes the mystery of what is being sent or received by LAN stations. Observer is licensed by the number of nodes on your LAN.

Analyst/Probe - Protocol Analysis for multi-segment LANs and WANs
Analyst/Probe is a network protocol analyzer and LAN monitoring tool for multi-segment LANs

and WANs. An Analyst Station communicates via TCP/IP with software based Probes hosted by Windows PCs. Analyst/Probe lets you monitor network bandwidth utilization, collect statistics by user, packet size or protocols, and capture, view and decode LAN traffic on local or remote segments. Analyst/Probe lets you perform these functions from a single location, on a Windows based Analyst Station for any LAN or WAN segment in your network.

Printing Utilities Connecting UNIX to Windows and Netware:

FarPRINT - LPD/LPR NLM for the Netware Server
FarPRINT takes the lead in a new generation of high performance LPD/LPR-based NLM print utilities for Netware servers. FarPRINT allows direct cross-mapping of UNIX and Netware print queues (48 or 264 queues in each direction). FarPRINT enriches any UNIX/Netware installation, providing immediate, high speed, reliable, bi-directional server-to-server printing. The FarPRINT license is for one Netware Server.