

# Printing from Unix systems via a Windows NT 4.0 Print Server.

---

## Introduction

The most common method of printing in Unix systems uses the LPR (Line Printer Remote) protocol. This method uses an LPR utility on the client machine to print to an LPD (Line Printer Demon) on the print server machine. The printer itself may be directly connected to the server or may also be a remote network printer. Windows NT 4.0 fully supports this method of printing with its TCP/IP Printing Services. This document describes how to use Windows NT 4.0 as a print server for Unix client machines using the TCP/IP printing services.

## Procedure

1. Insure that the TCP/IP protocol is installed on your NT machine.
2. Check that TCP/IP Printing Services have been installed on the Windows NT 4.0 print server machine. If TCP/IP Printing Services are not installed, install them.
3. Set the TCP/IP Print Server (Lpdsvc) to start automatically when Windows NT is started.
4. Install a printer in the NT machine, and share it so that the network can use it.
5. Use the LPR utility on your Unix system to print to the NT machine, using the IP address or host name of the NT machine and the share name of the printer set up on NT.

## Setting Lpdsvc to start automatically

By default, Lpdsvc is set to manual. This means that it will not start when NT is started, and thus the service can not be used. To insure that the service is available at all times; it should be set to start automatically. To do this:

1. Open the 'Control panel' from 'Settings' on the start menu.
2. Double click the 'services' icon.
3. Select 'TCP/IP Print Server' under service, and click start. NT will now start up the service. Now click 'Startup'.
4. Under 'Startup type' select 'Automatic', this will start 'TCP/IP Print Server' automatically the next time NT is started. Click 'ok', then click 'Close'.