Using the Internet Printing Protocol (IPP) with Infoprint Manager

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The Internet Printing Protocol (IPP) is an application protocol that uses the Hypertext Transfer Protocol (HTTP) to allow you to print your documents to any IPP-enabled printer whose web address (or Uniform Resource Identifier-URI) you know. You can use IPP to send print data over both LANs and the Internet--so users who are directly connected to your LAN as well as those who work remotely have access to the same printers. Infoprint Manager for Windows NT and Windows 2000 provides two ways to configure your system to print using IPP.

Printing to an IPP-enabled printer

If you have an IPP-enabled printer, you can create an IPP printer just as you would any other actual destination--using the Create IPP Printer Wizard in the Infoprint Administration GUI. To print to the new destination, you can submit jobs using a print command such as pdpr, or you can install Infoprint Select on your workstation and create a Select printer that uses that destination.

Printing through the IPP Gateway

The IPP gateway is a service in Infoprint Manager that allows you to print using IPP even if you don't have an IPP-enabled printer, as long as you (and your users) have IPP client software installed on your workstation.

Note: Windows 2000 systems come with IPP client software built in. Users on other Windows platforms can download IPP client software. The Printer Working Group, the organization that is leading the development of IPP, provides a list of IPP client software that you can use to find an appropriate client at: `http://www.pwg.org/ipp/IPP-Products.html`

Once you have an IPP client installed, follow these steps to set up the gateway.

1. Enable the IPP Gateway using the Infoprint Manager Management Console. Refer to the Management Console online help for more information on completing this task.

   a. The IPP Gateway runs as a Windows service called Infoprint Manager IPP Gateway. On Windows NT systems, the IPP Gateway service is set to start automatically by default. On Windows 2000 systems, the IPP Gateway is not set to start automatically by default. Refer to the Management Console online help for information on changing the default settings.

   b. To start the IPP Gateway service while your system is running:

      - On Windows NT, select **Start** → **Settings** → **Control Panel**, and open the **Services** icon.
      - On Windows 2000, select **Setup** → **Administrative Tools** → **Services**, and click the **General** tab. Find the Infoprint Manager IPP Gateway service and start it.

2. Verify that the gateway is working. Open your Internet browser and enter the following web address, replacing *serverhostname* with the DNS hostname of the system that Infoprint Manager is installed on:

```
http://serverhostname:631/printers
```

> **Note:** If you don't have a DNS name server running on your network, replace *serverhostname* with the dotted-decimal IP address of the system that Infoprint Manager is installed on instead.

   If the gateway is working correctly, you will see a list of the printers that are available through the gateway. All of your Infoprint destinations should be listed. Find the address (URI) of the destination you want your users to print to.

3. Tell your users how to add that printer to their desktops. This step varies depending on which IPP client you are using; follow the instructions for adding a printer as provided by the IPP client. For the printer address, have your users enter the address that you found in step 2.

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