

Setting Up Wireless Pcounter Printing from Student Laptops

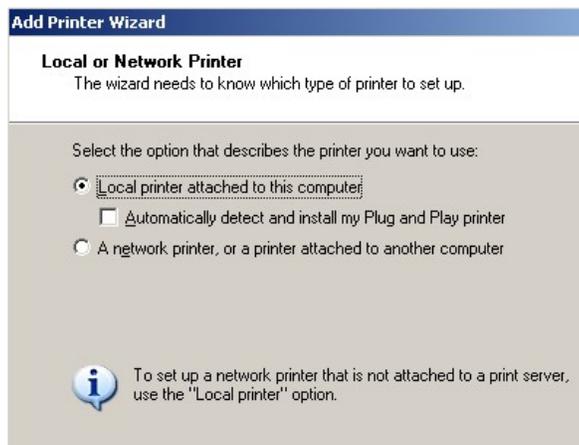
To print from a student laptop running a Windows operating system, when the computer has a wireless network connection but is not directly joined to the school's domain, use the following procedure.

Setting Up the Printer

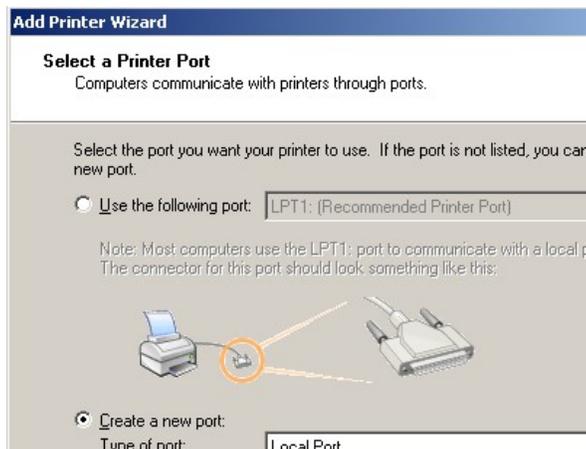
Get the following information from your network administrator:

The IP address of the network Print Server

- a) The name and model number of the network printer you wish to use.
 - b) You may also need the location of appropriate printer drivers for your Windows operating system.
1. Open the *Printers and Faxes* folder and click the "Add a Printer" icon to install a new printer.
 2. Click "Next" on the first screen of the *Add Printer* wizard. Choose "Local Printer attached to this computer" on the next screen, uncheck the automatic detection option for Plug and Play, and click "Next" to continue.



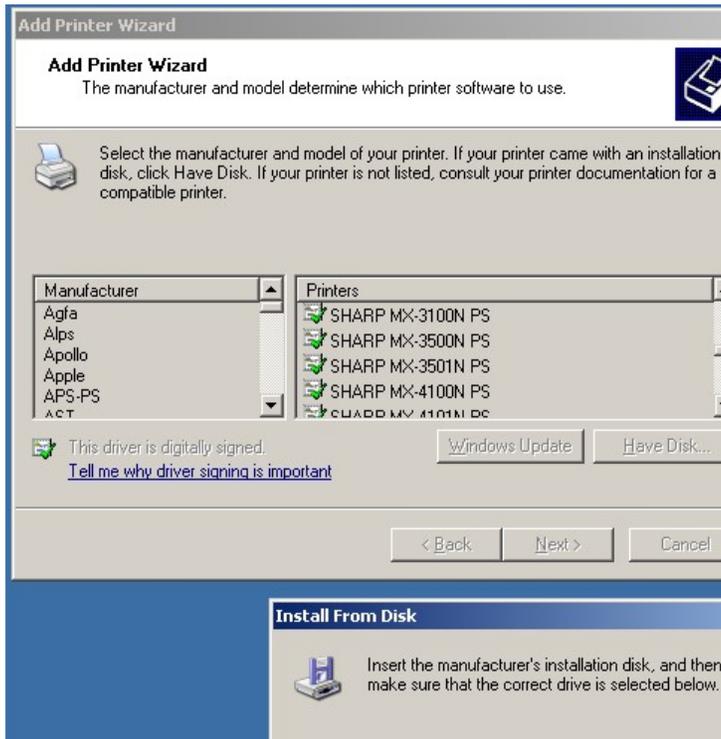
3. On the "Select A Printer Port" screen, choose "Create a new port," choose "Standard TCP/IP" as the port type, and click "Next" to continue.



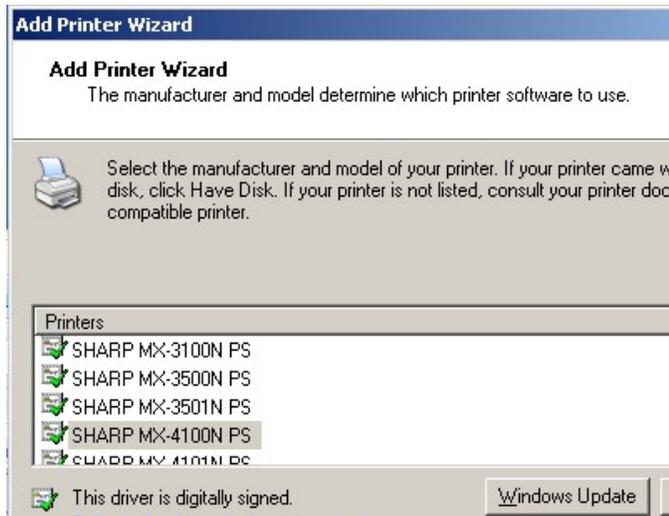
4. Click “Next” on the first screen of the “Add Standard TCP/IP Port” wizard. On the “Add Port” screen, enter the IP address of your network print server (obtained from the Network Administrator) and click “Next” to continue.



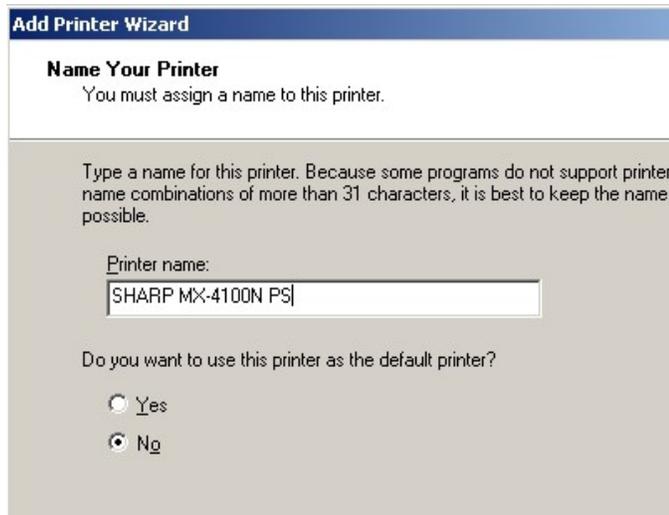
5. If the “Additional Port Information Required” screen appears, accept the Standard settings and click “Next” to continue. Click the Finish button on the last screen of the “Add Standard TCP/IP Port” wizard.
6. On the “Install Printer Software” screen of the *Add Printer Wizard*, choose the Manufacturer and Model Number of your printer. OR, if you have been given a location for the printer driver, click the “Have Disk” button and point to the directory where the printer driver is located. Then click OK.



7. Choose the Printer Model on the next screen and click “Next” to continue.



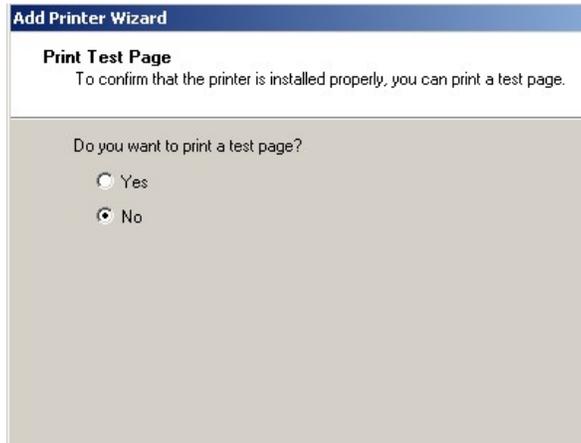
8. Accept the name of the printer on the next screen or give it a new name and click “Next” to continue.



9. On the *Printer Sharing* screen, accept the default, “Do not share this printer,” and click “Next” to continue.

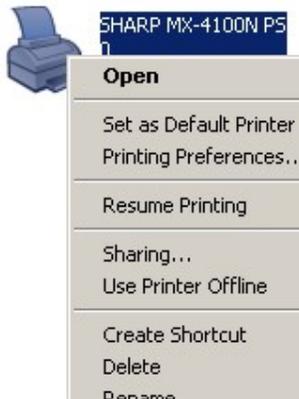


10. On the next screen, do not print a test page. Click “Next” to continue.

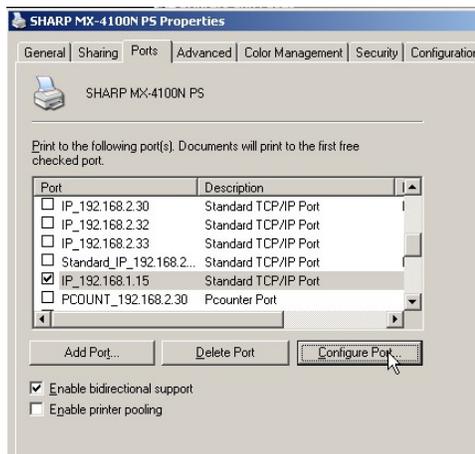


11. Click “Finish” on the last screen of the *Add Printer Wizard*.

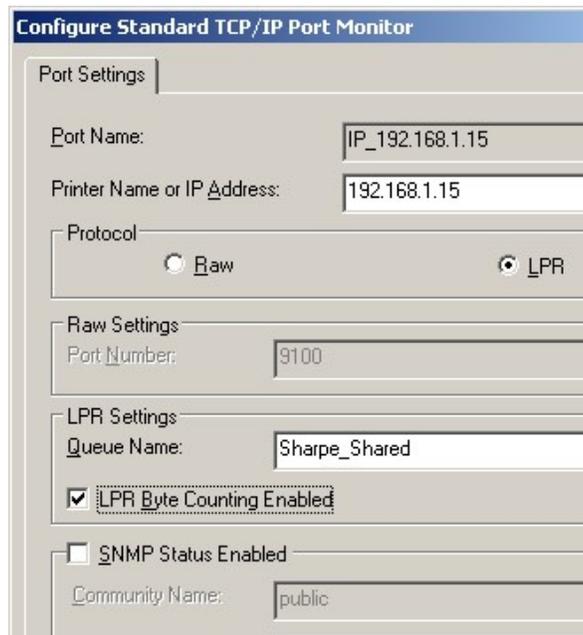
12. Right-click the Printer you have just created in the *Printers and Faxes* Folder and choose “Properties” from the popup menu.



13. In the Printer Properties click the Ports tab. Locate the TCP/IP port your printer object is using (see step 4) and click the “Configure Port” button.



14. On the *Port Settings* tab: a) click the LPR button, b) enter the IP address of the network print server (obtained from your System Administrator), and c) in the LPR settings, enter the name of the network print queue for this printer.
15. Checkmark the “LPR Byte Counting Enabled” option and click OK to close the dialog box.



16. Click “Close” in the *Printer Properties* window.

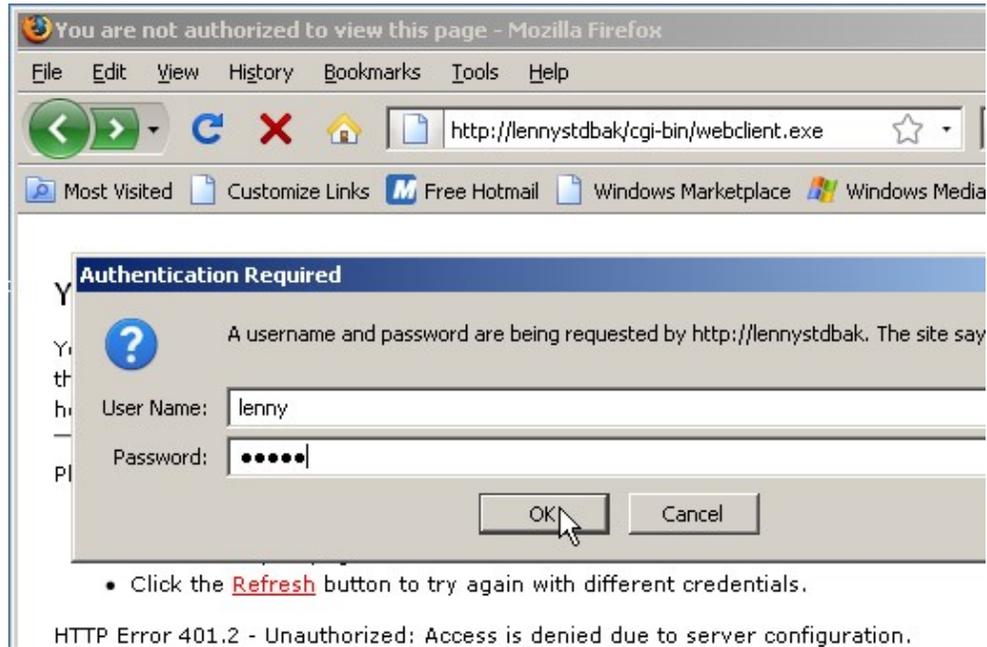
Your printer object is now configured and ready to use.

Releasing Print Jobs

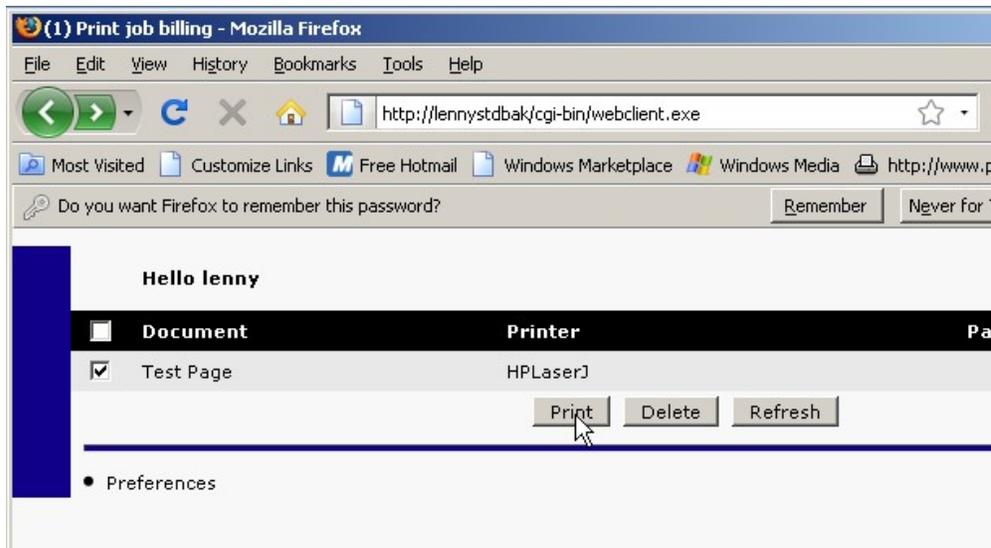
After print jobs are submitted from the laptop, you must use a web browser to log into the Pcounter web client and release them to the printer.

1. Open the web browser and enter the following address:
<http://servername/foldername/webclient.exe> where *servername* is the name or IP address of the Pcounter server and *foldername* is the folder that contains the Pcounter webclient.exe module. (Note that your administrator may also configure secure access for webclient, in which case you would log into <https://servername/foldername/webclient.exe>.)

2. Enter your username and password.



3. Place a checkmark next to your job(s) in the WebClient window and enter any other information required to release the job. (This will vary, depending upon how your administrator has set up the Printing options), then click "Print" to release the job.



Notes for the Network Administrator

The procedure outlined in this document allows jobs from student workstations to be released to a monitored queue on a *Pcounter* server. *Pcounter* includes support for wireless (or wired) printer accounting on computers not directly joined to your domain. A printer object set up on a student laptop uses the IP address of the Pcounter server and the name of the monitored print queue.

Configure Standard TCP/IP Port Monitor

Port Settings

Port Name: IP_192.168.2.131

Printer Name or IP Address: 192.168.2.131

Protocol

Raw LPR

Raw Settings

Port Number: 9100

LPR Settings

Queue Name: MyMonitoredQueue

LPR Byte Counting Enabled

SNMP Status Enabled

Community Name: public

After students send their jobs to the printer, the jobs are released by using a web browser to log into the Pcounter WebClient. The WebClient runs under a web server located on the Pcounter print server. Students enter appropriate validation information on the web page, releasing jobs to the printer and debiting their user accounts if this option is enabled.

Note: You can streamline the implementation of web-based printing for students by creating a special website that allows them to download drivers for the printers on your network. Many popular printer models are supported internally in the Windows XP and Windows Vista operating systems, but the latest drivers for a printer can usually be downloaded from the manufacturer's website and these drivers are generally more reliable.

The Pcounter WebClient is the basic solution for tracking wireless printing with Pcounter or printing from wired workstations not on the domain. It is supported on Windows, Macintosh, and Linux operating systems.

HTTP Popup Client

A.N.D. also offers an HTTP Popup Client on Windows and Macintosh platforms. The HTTP Popup allows users to validate print jobs and/or enter account codes from a popup window on the desktop instead of requiring them to log onto a website for print validation. This is a convenient feature for users who need to release a large volume of print jobs. To implement either the Windows or the Macintosh HTTP Popup client, *Pcounter Pro* must be installed on the network. For users of the standard *Pcounter* product, this requires a license upgrade.

