# **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.

Local or N The wiz	etwork Printer ard needs to know which type of printer to set up.
Select t	he option that describes the printer you want to use:
• Loc	al printer attached to this computer
	Automatically detect and install my Plug and Play printer
C A ng	etwork printer, or a printer attached to another computer
	To set up a network printer that is not attached to a print serve

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.

Select a Printer Port Computers communicate wi	ith printers through ports.
Select the port you want yo new port.	ur printer to use. If the port is not listed, you c
C Use the following port:	LPT1: (Recommended Printer Port)
Note: Most computers u The connector for this p	ise the LPT1: port to communicate with a loc port should look something like this;
	250
Create a new port:	
Type of port:	Local Port

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.

Er	nter the Printer	rName or IP a	dress, and a port i	name for the desired de
Pr	inter Name or	IP <u>A</u> ddress:	192.168.1.15	
Po	ort Name:		IP_192.168.1.1	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.

Add Printer Wizard	
Add Printer Wizard The manufacturer and model determine	which printer software to use.
Select the manufacturer and model o disk, click Have Disk. If your printer is compatible printer.	f your printer. If your printer came with an installation s not listed, consult your printer documentation for a
Manufacturer	
Agra Alps Apollo Apple APS-PS Act This driver is digitally signed. <u>Tell me why driver signing is important</u>	RP MX-3100N PS RP MX-3500N PS RP MX-3501N PS RP MX-4100N PS Windows Update Have Disk
	< <u>B</u> ack <u>N</u> ext> Cancel
Install Fro	m Disk
J.	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.

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

Add Printer Wizard The manufacturer and model determine	e which printer software to use.
Select the manufacturer and model disk, click Have Disk. If your printer compatible printer.	of your printer. If your printer came w is not listed, consult your printer doc
Printers	
Printers SHARP MX-3100N PS SHARP MX-3500N PS SHARP MX-3501N PS SHARP MX-3101N PS	

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

Add Printer Wizard				
Name Your Printer You must assign a name to this printer.				
Type a name for this printer. Because some programs do not support printer name combinations of more than 31 characters, it is best to keep the name a possible.				
Printer name:				
SHARP MX-4100N PS				
Do you want to use this printer as the default printer?				
C Yes				
• N <u>o</u>				

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

If you want to share this printer, you must provide a share name. You suggested name or type a new one. The share name will be visible to users.	can u other
	Galor
Do not share this printer	
Share name: SHARPMX-	

10. On the next screen, <u>do not</u> print a test page. Click "Next" to continue.

Print Test Page To confirm that I	he printer is installed properly, you can print a test page
Do you want to p	orint a test page?
C Yes	
No	

- 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.

D	SHARP MX-4100N PS
	Open
	Set as Default Printer Printing Preferences
	Resume Printing
	Sharing Use Printer Offline
	Create Shortcut Delete
	Dename

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.

SHARP MX-4100N P	s	
rint to the following port(s). Doc hecked port.	cuments will print to the first free	
Port	Description	1.
IP_192.168.2.30	Standard TCP/IP Port	1
IP_192.168.2.32	Standard TCP/IP Port	
IP_192.168.2.33	Standard TCP/IP Port	
Standard_IP_192.168.2	Standard TCP/IP Port	
IP_192.168.1.15	Standard TCP/IP Port	
PCOUNT_192.168.2.30	Pcounter Port	-
<u>न</u>		<u>۱</u>
Add Port	Delete Port	
		0

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 Co	ounting Enabled	" option and cliq	ck OK to clos	e the dialog box.
		,				

Configure Standard TCP/	IP Port	Monitor			
Port Settings					
Port Name:		IP_192.168.1.15			
Printer Name or IP <u>A</u> ddres	:S:	192.168.1.15			
Protocol C <u>B</u> aw		∙ ⊙ LPR			
Raw Settings Port <u>N</u> umber:	9100				
LPR Settings Queue Name:	Sharpe	_Shared			
LPR Byte Counting	Enabled				
	SNMP Status Enabled				
Community Name:	public				

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.

 Open the web browser and enter the following address: <u>http://servername/foldername/webclient.exe</u> 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 <u>https://servername/foldername/webclient.exe</u>. 2. Enter your username and password.



- HTTP Error 401.2 Unauthorized: Access is denied due to server configuration.
- **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 <u>A</u> ddres	ss:	192.168.2.131
Protocol © <u>B</u> aw		, € LPR
Raw Settings Port <u>N</u> umber:	9100	
LPR Settings	МуМо	nitoredQueue
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.

<u>Note</u>: 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.

