Wireless USB 2.0 1-Port Multi-Functional Printer Server

Model # AMPS240W

User's Manual

Ver. 1A

Table of Contents

1 Introduction

Congratulations on purchasing your Wireless 1-Port USB 2.0 Multi-Functional Printer Server. It is the easiest and fastest way to deploy printers on your network.

The Wireless MFP print server complies to IEEE 802.11g/b that allows you to share your All-in-One multi-functional printer wirelessly on your local area network (LAN). You can do printing, faxing, and scanning on any of your computers that connects to the network. It also features a Web-based Configuration Utility, which allows you to set up the Print Server through the web browser easily and quickly. It manages the flow of print files from computers to the connected printer, delivering print jobs to high-performance printer much faster than a file server or a PC acting as a print server can.

1.1 Package Contents

Unpack the package and check all the items carefully, and be certain that you have:

- 1-Port USB 2.0 Wireless MFP server
- Stand
- AC Power Adapter
- Quick Installation Guide
- Installation CD
- RJ-45 Ethernet Cable
- Antenna

If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packaging materials in case you need to ship the unit in the future.

1.2 System Requirements

- Operating System: Microsoft Windows 2000/XP/Vista
- For Web Configuration: Microsoft® Internet Explorer 5.5, Netscape® Navigator 4.78 or above

2 Multi-Functional Printer Server Installation

2.1 Connecting the Printer Server

WARNING: Only a USB printer may be connected to the USB port of the Printer Server. Connecting any other USB device to the Printer Server may damage the Printer Server.
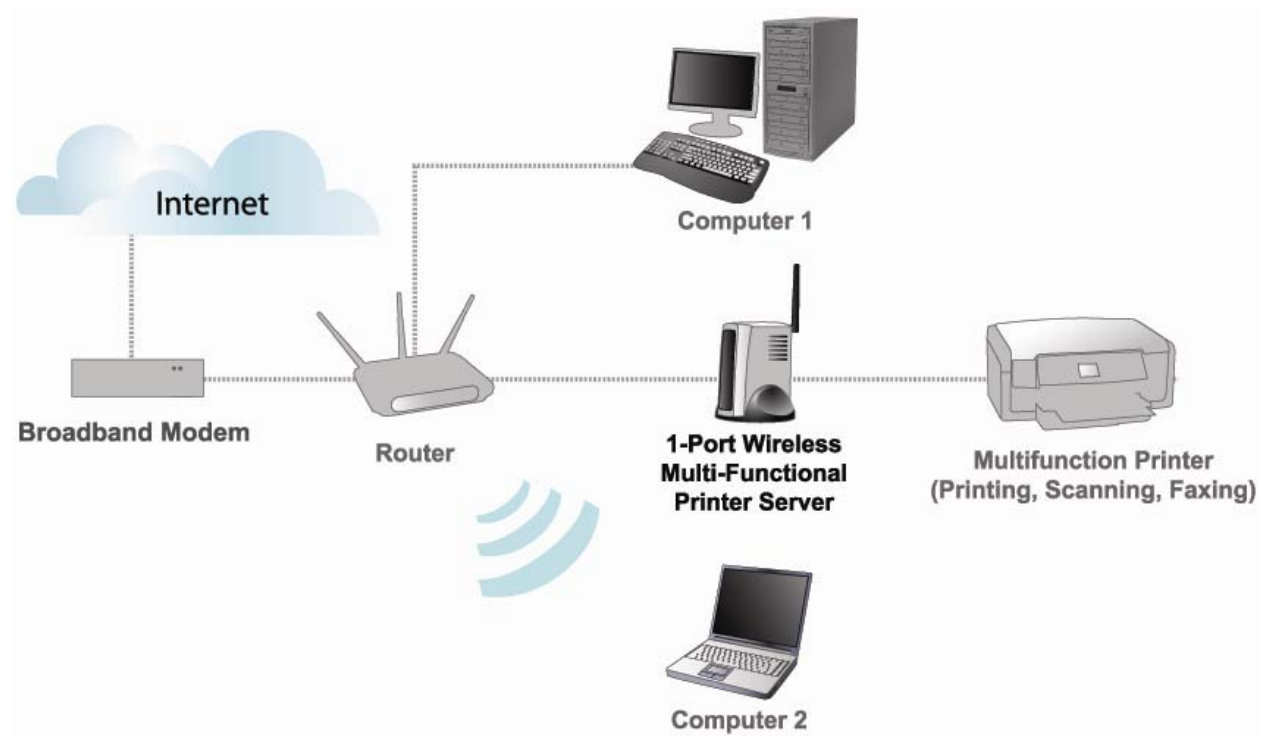
Note: Before connecting the hardware you must install the printer on each computer you plan to use with the printer. Make sure that you are able to print, scan, and fax from each with your multi-functional printer directly connected to your computer(s).

Step 1 Power down the printer and the printer server.

Step 2 Connect one end of a networking cable to your router, then connect the other end to the Ethernet port on the back of the print server.

Step 3 Connect the USB cable coming from your printer into the USB port on the printer server.

Step 4 Turn on the printer. Once the printer is powered on, connect the print server's power adapter to an electrical outlet.
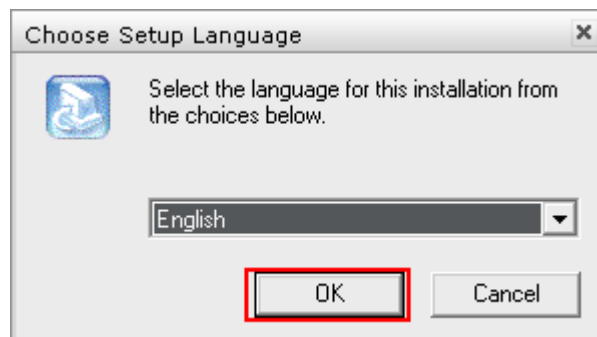
2.2 Installing the PS Software

Note: The PS Software must be installed on **all computers** you plan to use with the print server.

Step 1 Insert the Utility CD into your CD-ROM drive. When the autorun screen appears, select **Install PS Software** from the menu.
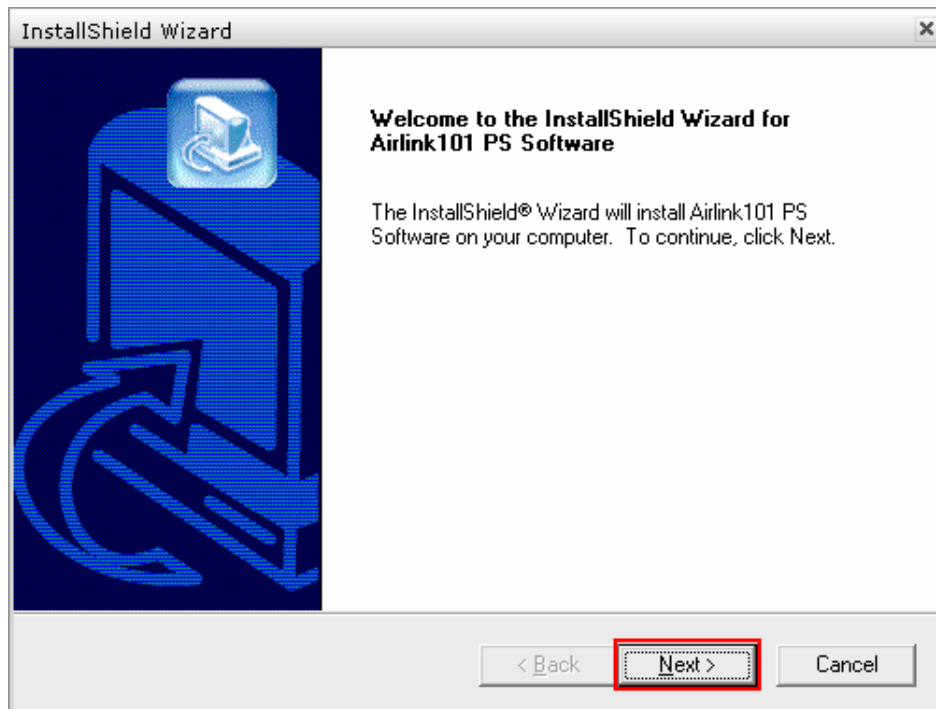

Note: If the autorun window does not appear automatically, go to Start -> Run and type **D:\Utility\Setup.exe** (where **D** is the letter of your CD-ROM drive) and click **OK**.
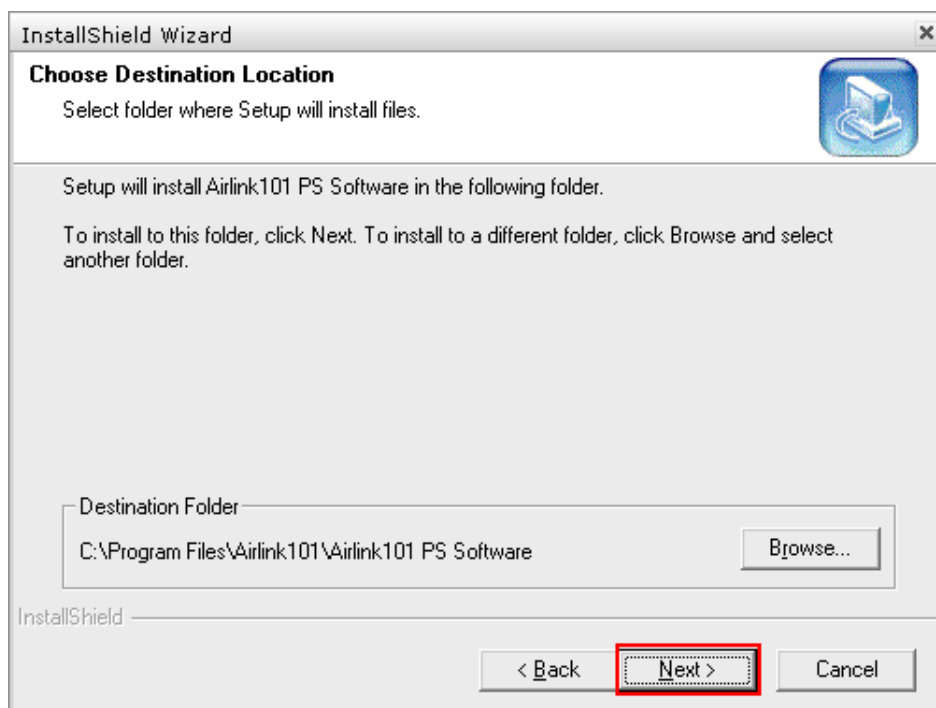
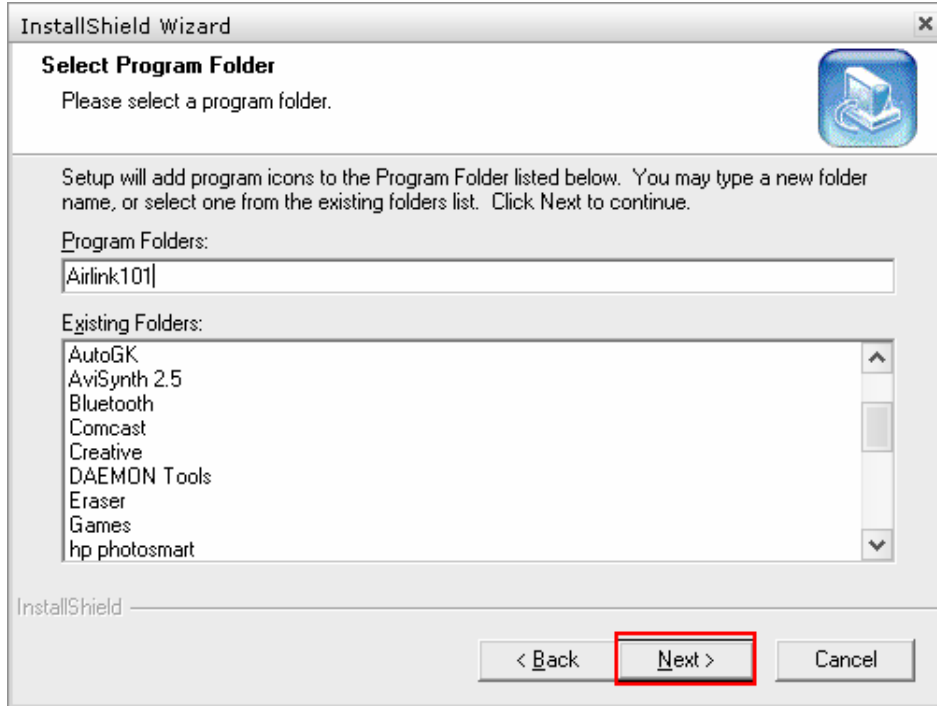**Step 2** Select your setup language and click **OK.**

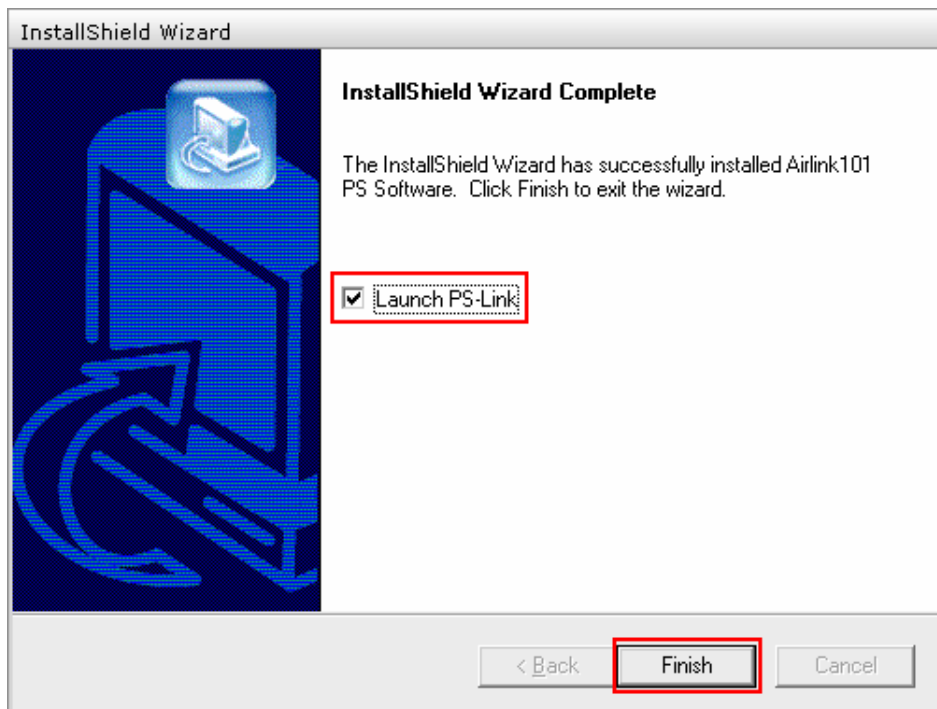**Step 3** Click **Next** at the welcome screen.

Step 4 Click **Next** at the **Choose Destination Location** screen.

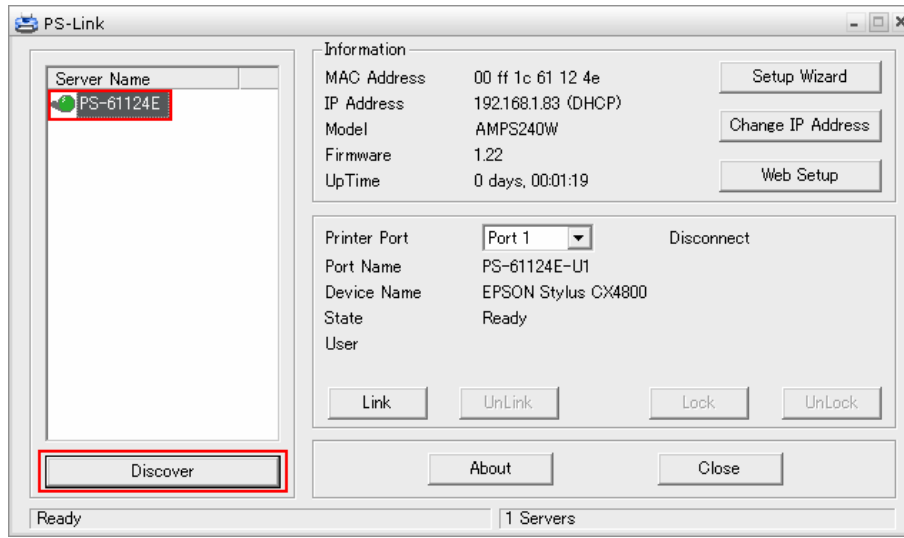**Step 5** Click **Next** at the **Select Program Folder**.

Step 6 Once the installation is complete, make sure that the **Launch PS-Link** box is checked and click **Finish**.
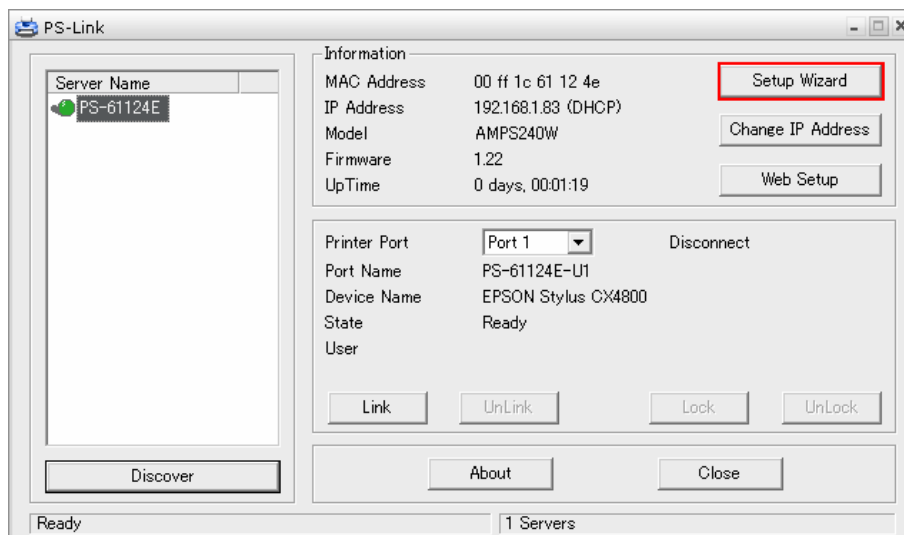
2.3 Configuring the Printer Server

Note: The following steps only need to be performed one time from one computer.

Step 1 Click the **Discover** button and your printer should show up under **Server Name**. If your print server does not show up, check all power and network cable connections to the printer. You may also need to disable any software firewalls you have on your computer.
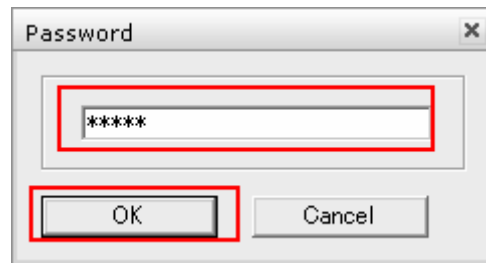

Step 2 Once the printer server appears in the **Server Name** box, click on it. You should see your printer next to **Device name**. Click on the **Setup Wizard** button.
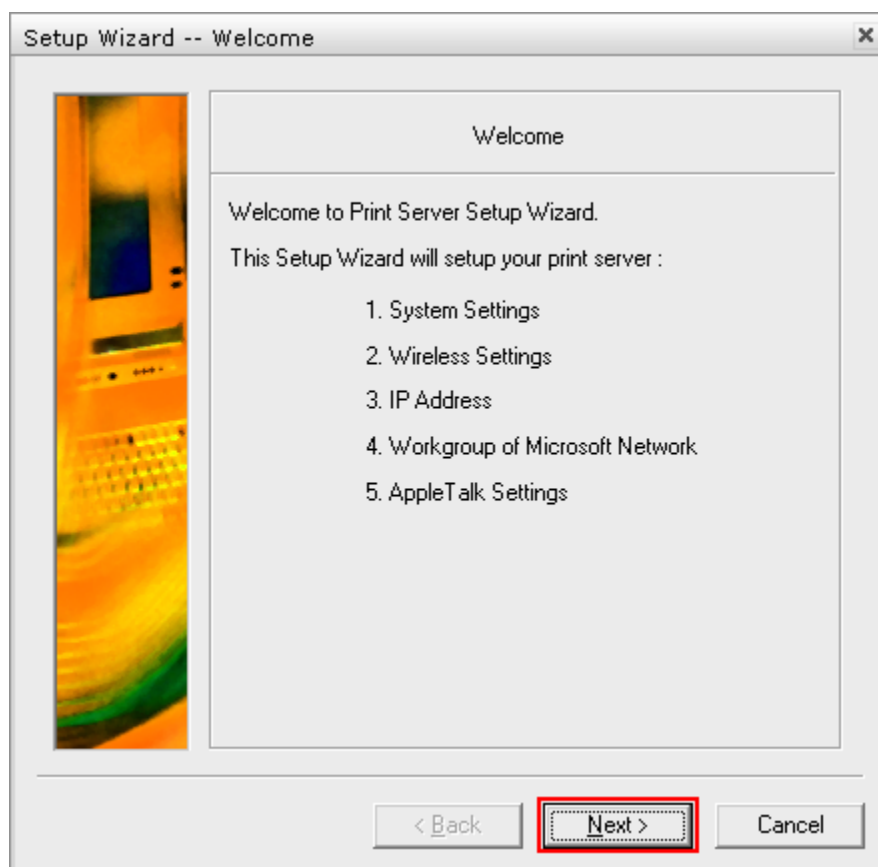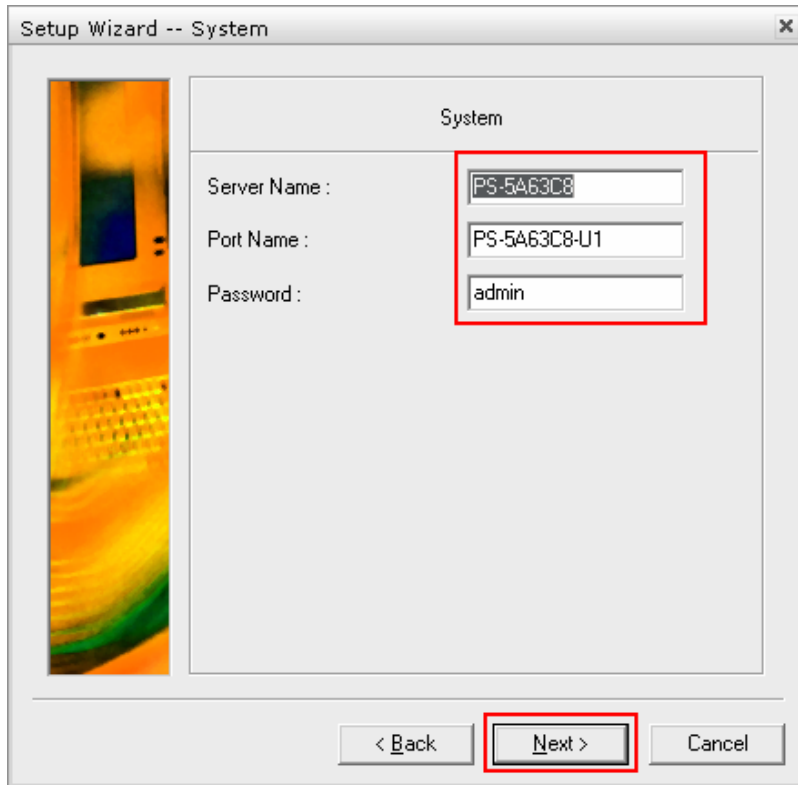
Step 3 A password box will appear. The default password is **admin**. Enter it and click **OK**.
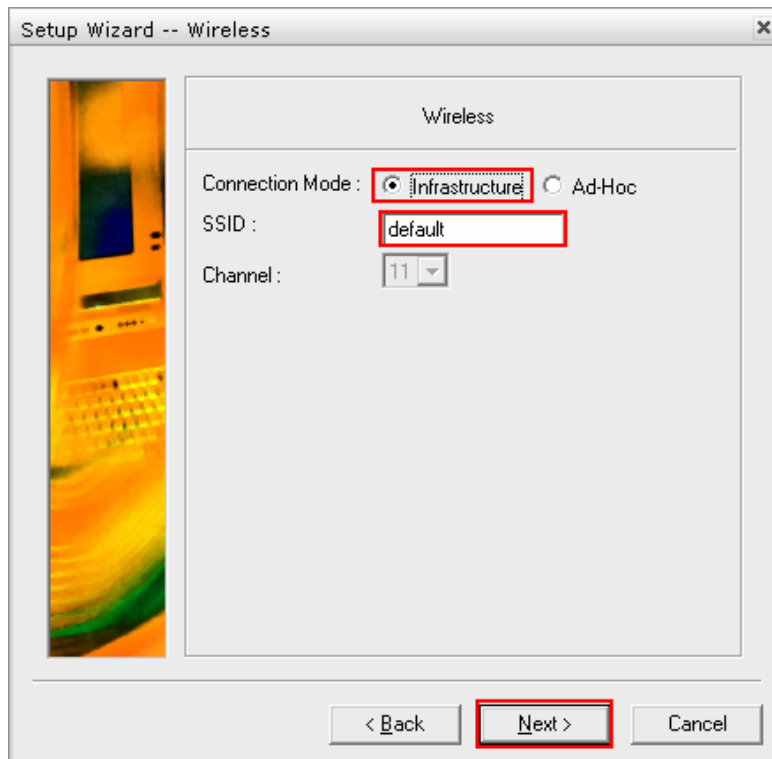

Step 4 Click **Next** at the welcome screen.

Step 5 At the **System** screen you can change the **Server Name**, **Port Name**, and **Password**. Click **Next** after making the desired changes. If you do not have a specific Server Name, Port Name, or Password that you would like to use, click **Next** to accept the default settings.
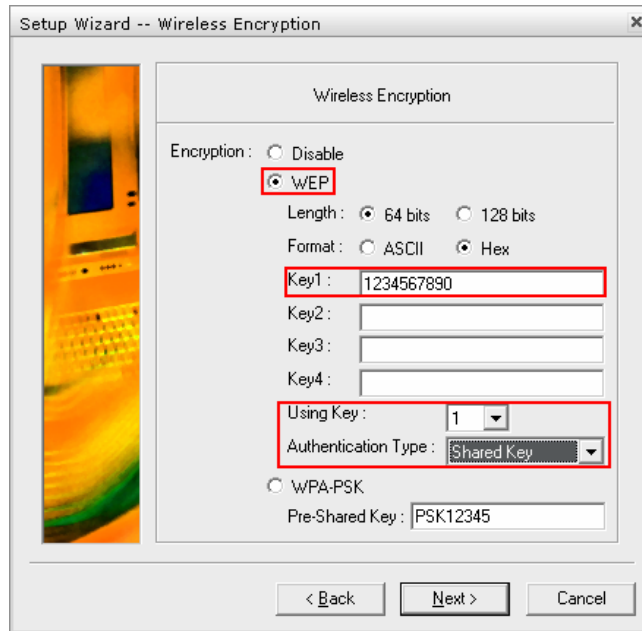
Step 6 At the **Wireless** screen you can input the wireless settings for your network. If you have a router, you will want to choose **Infrastructure** mode. If you are unsure of your **SSID**, contact your router manufacturer for assistance.
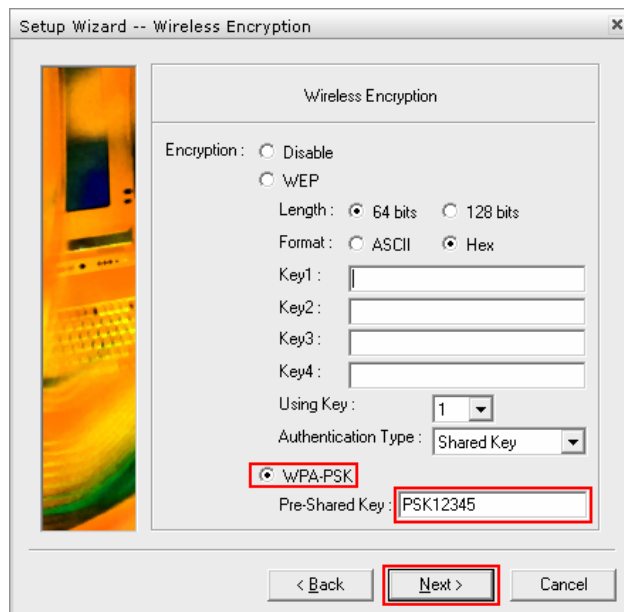
Step 7 At the **Wireless Encryption** screen you can enter the wireless security settings of your router. If you do not use encryption, click **Disable** and then **Next**. If you are using encryption, you can get the encryption settings from your router or router manufacturer and enter them here. Afterwards, click **Next**.

For **WEP** encryption, select **WEP** and enter your settings into the boxes below.
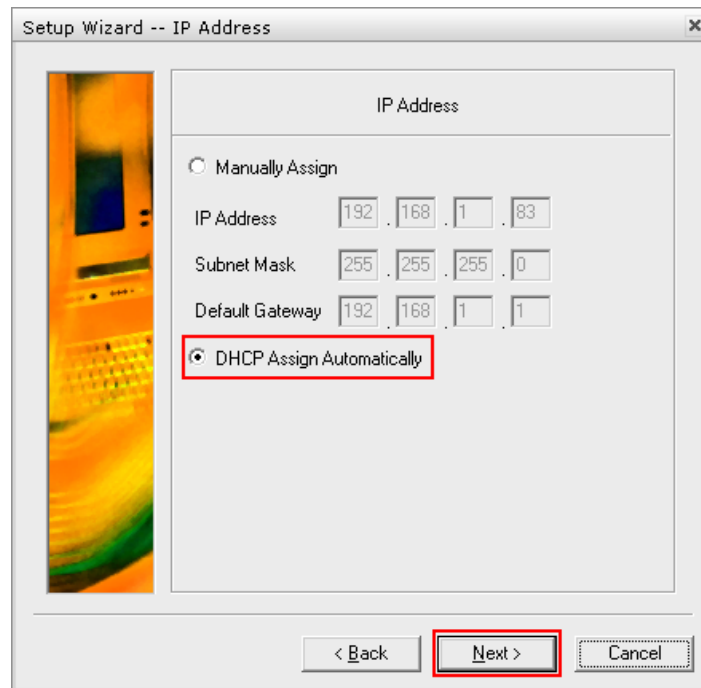

For **WPA-PSK**, Select **WPA-PSK** and enter your **Pre-Shared Key** into the box. Please note that the print server only supports TKIP and does not support AES
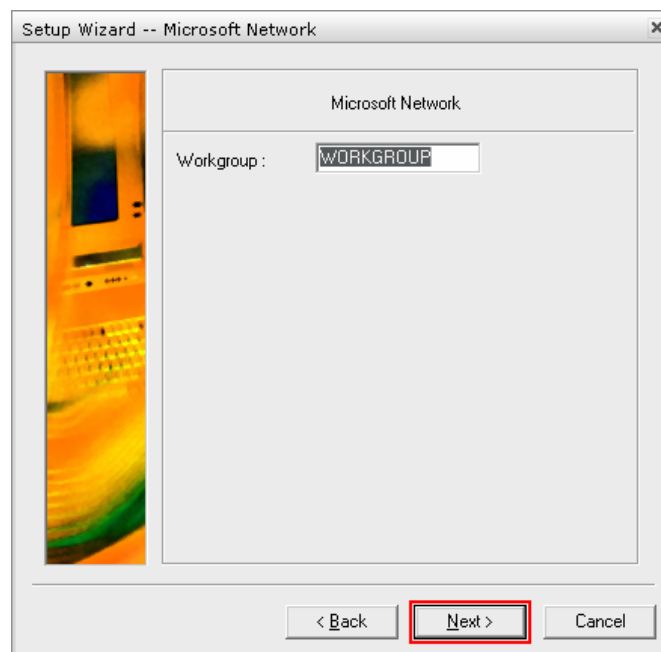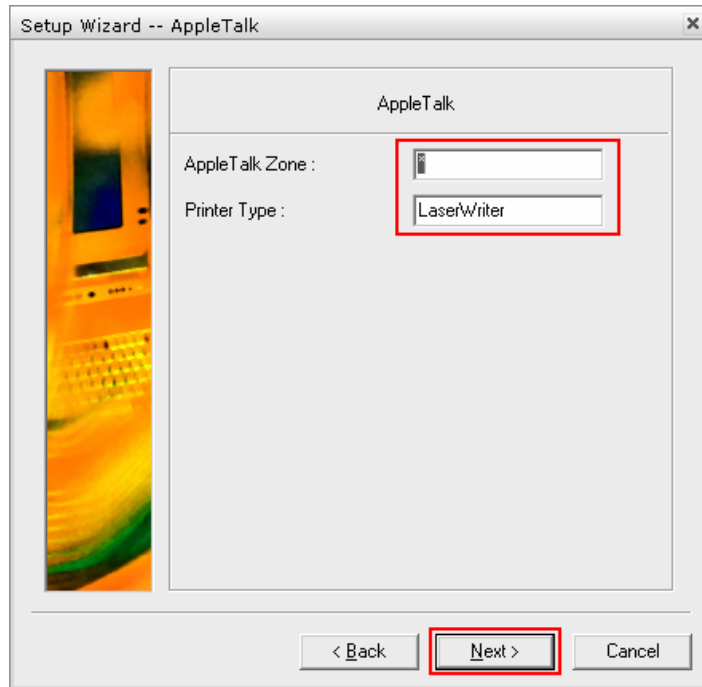
Step 8 If you have a specific IP address you would like to assign to the print server, select **Manually Assign** and enter your custom settings. Otherwise, select **DHCP Assign Automatically** and click **Next**.
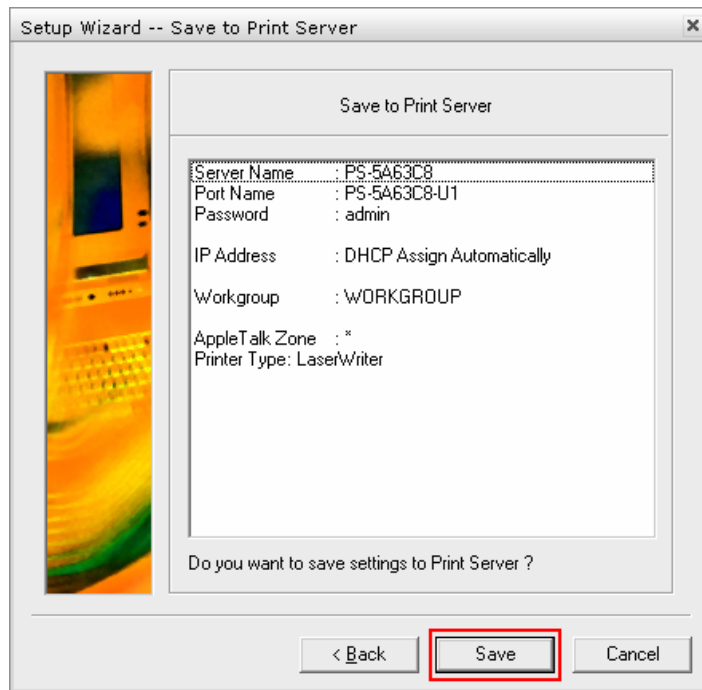

Step 9 If your network uses a workgroup name other than WORKGROUP, you can enter it here and click **Next**. Most users will want to leave this setting as it is and click **Next**.

Step 10 If you have specific **AppleTalk** settings, you can enter them here. Most users will want to leave this setting as it is and click **Next**.

Step 11 Click **Save** to save the changes to your print server.

If you plan to use the print server wirelessly, you can now disconnect the Ethernet cable between the print server and the router.
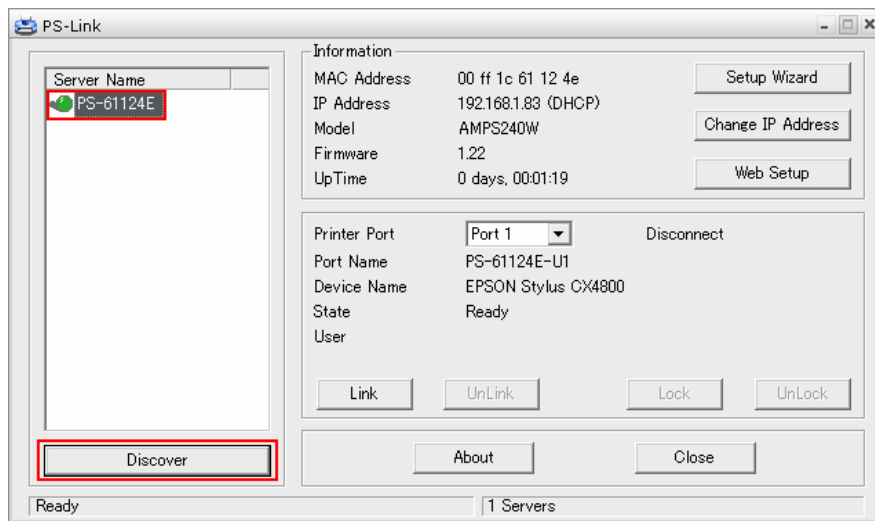
2.4 Configuring the Computer

Note: The following steps must be completed on all computers you plan to use with the print server.
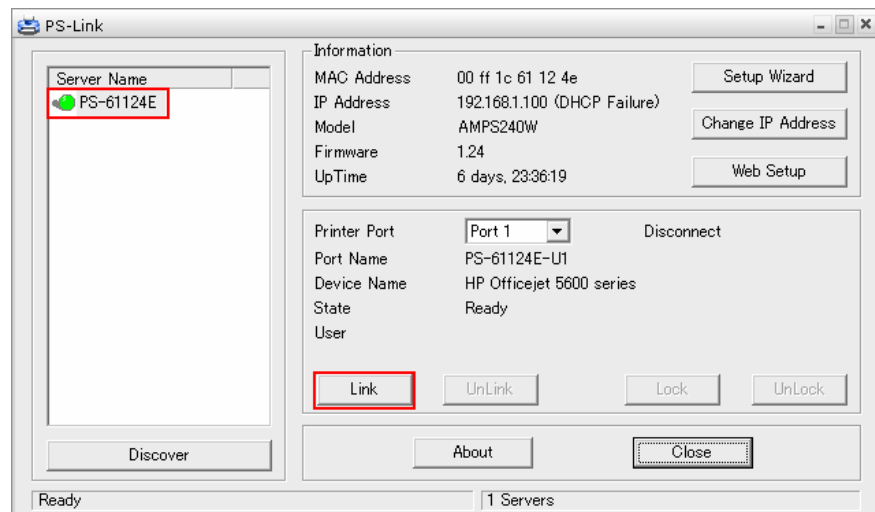
Step 1 Double click on the PS-Link icon in the system tray to open the PS-Link software.
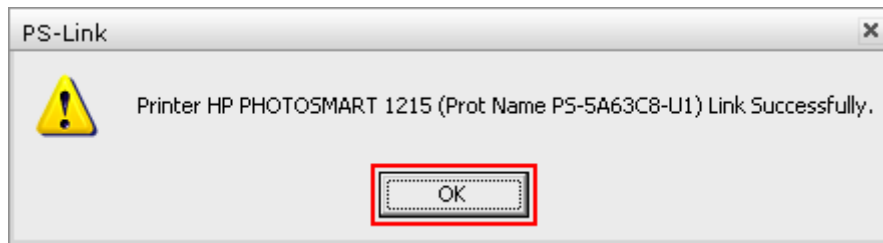

Step 2 Click the **Discover** button and your printer should show up under **Server Name**. If your print server does not show up, check all power and network cable connections to the printer. You may also need to disable any software firewalls you have on your computer.
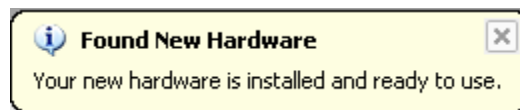

Step 1 Select your print server from the **Server Name** box and click the **Link** button.
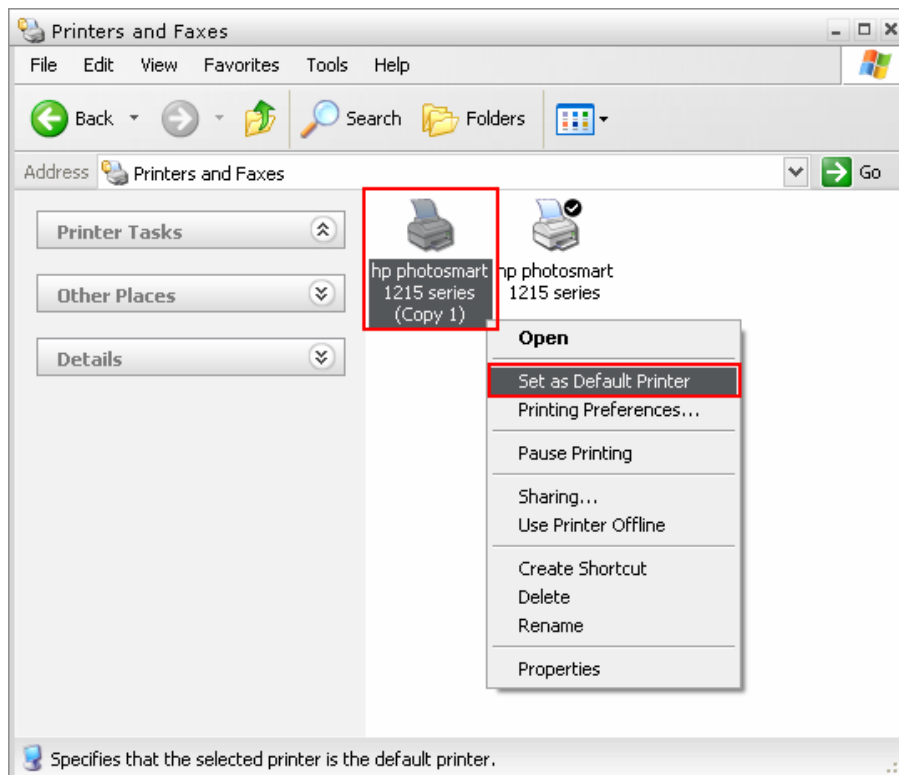
Step 2 Click **OK** at the **Link Successfully** screen. You will see notices appearing in the bottom right-hand corner of your screen as Windows configures the printer.

Step 3 Once you see a notice that says **Your new hardware is installed and ready to use**, go to **Start -> Control Panel** and double click on **Printers and Faxes** (**Windows Vista Users** click on **Printers** instead of **Printers and Faxes**).

Step 4 In **Printers and Faxes** (or **Printers**) you will see a copy of your printer. Right click on the copy and click **Set as Default Printer**.
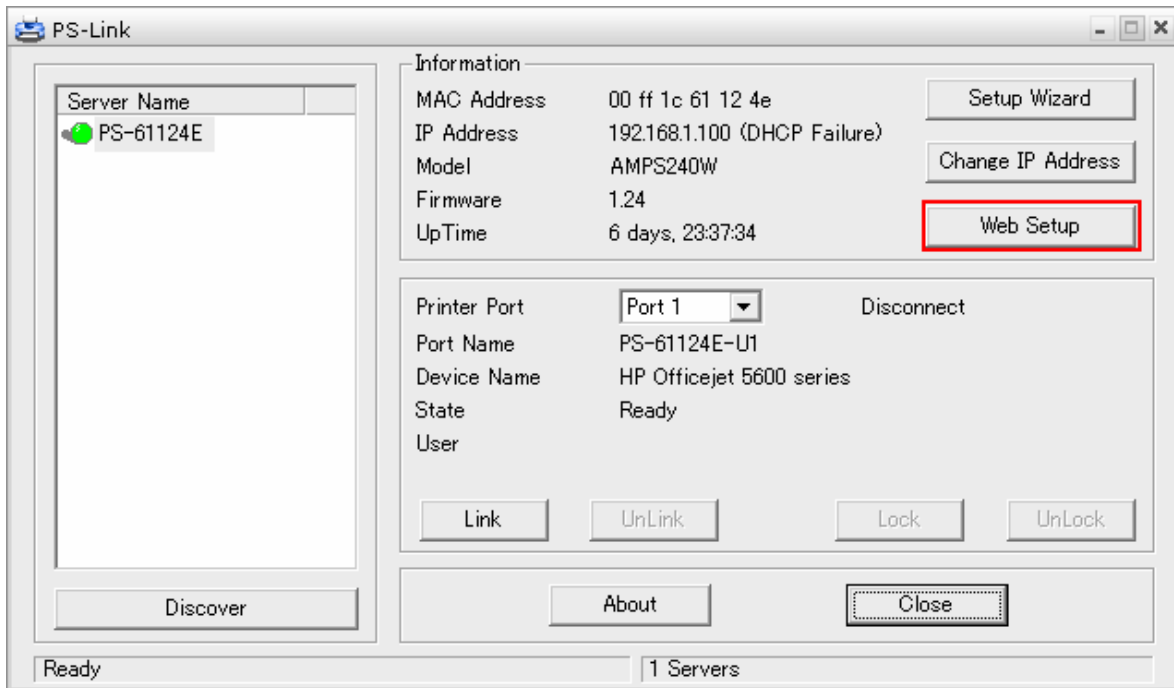

Congratulations, the configuration is now complete. Remember to repeat all steps in **Section 4** on each of the computers you plan to use with the print server.

3 Web Configuration Utility

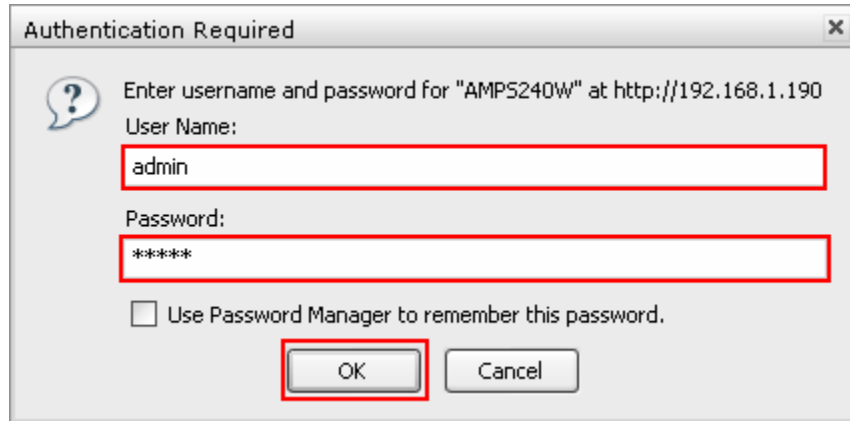## 3.1 Connecting to the Web Configuration Utility

The MFP Server can be accessed and managed in the use of not only the enclosed PS Software program (see also the Using PS-Link Software chapter), but also the Web Configuration Utility. The latter method will be introduced in this chapter.

To begin managing the MFP Server, simply launch the **PS-Link** software and click on the **Web Setup** button.
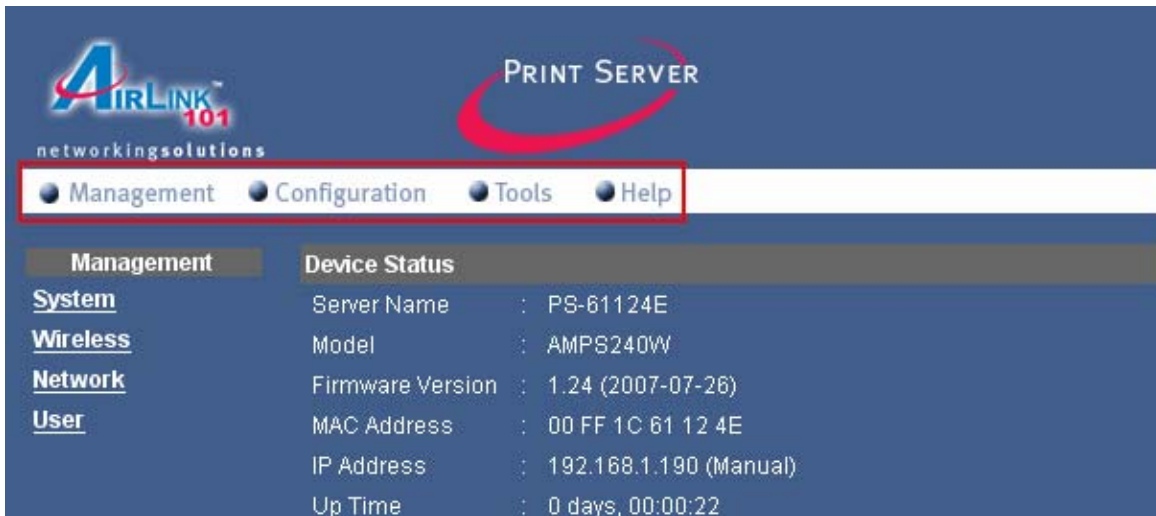

A new web browser window will open, prompting you for a username and password. Both the Username and Password are **admin**. Enter **admin** into the boxes and click **OK** to be taken to the Web Configuration screen.

The Web Configuration Utility contains four categories: **Management**, **Configuration**, **Tools**, and **Help**. You may click a desired category from the bar, to display its submenu and select a desired option listed in the left column, and then the corresponding content will show up in the right column.

3.2 Management

The **Management** screen displays the basic information of the MFP Server, including these options: **System**, **Network**, and **User**.

3.2.1 Management → System

As previous screen shows, the **System** option displays the status of your MFP Server, printer, and network for your reference:

Device Status

Display information about the MFP Server, including its model type, firmware version, MAC and IP addresses, and up time.
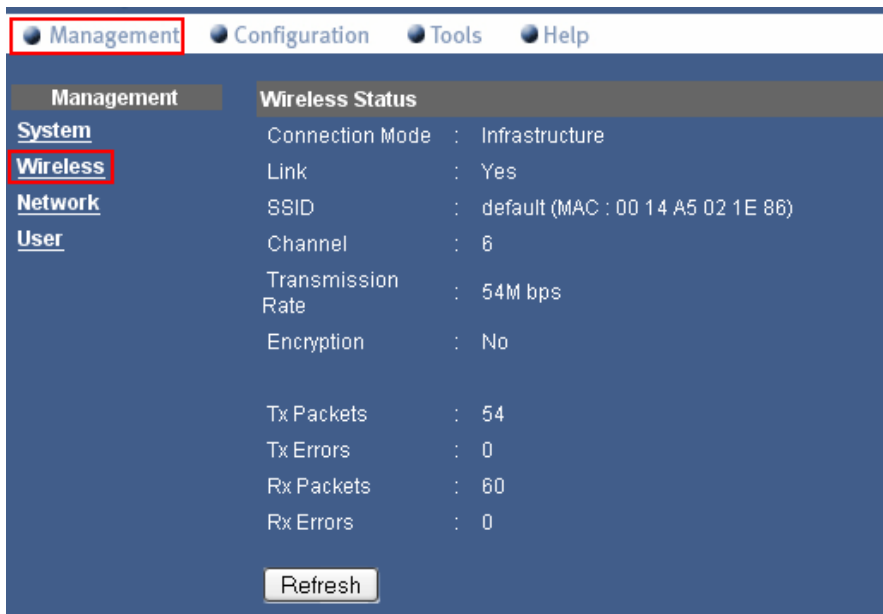
Printer Status

All information about your printer, such as the given name for the printer, speed, printer status (on/ off line), and further status of your printing tasks, will be listed in this field.

Ethernet Status

You can also monitor the network connection, transmission speed, duplex status, and the packets status in this field.

3.2.2 Management → Wireless

Click the **Wireless** item in the left column to display the information of the wireless LAN. Clicking *Refresh* will update the information.

Wireless Status

The items in this field display the information of the wireless LAN, such as the connection mode (Infrastructure or Ad-Hoc), SSID, channel, data transfer rate, WEP encryption, and the packets status.

3.2.3 Management → Network

Click the **Network** option of **Management** to display the LAN information:

Auto IP

This field displays the current settings of TCP/IP, pre-configured in **TCP/IP** field that is located on **Network** of **Configuration** category, for your verification. The current configuration contains DHCP/BOOTP, UPnP, and MAC Bonjour/Rendezvous.

TCP/IP Printing

For you to monitor the status of your printing tasks through TCP/IP.

Microsoft Network Printing

For you to monitor the status of your printing tasks through Microsoft Network.

MAC AppleTalk Printing

For you to monitor the status of your printing tasks through MAC AppleTalk.

To refresh or reload the latest information on this page, click **Refresh** button.

3.2.4 Management → User

Click the **User** option of **Management** to enter the following page to view the detailed users' printing log for your reference.

Users Printing Log

Display the information of users about MAC and IP addresses of users, usernames, and status of printing tasks.

To refresh or reload the latest information on this page, click **Refresh** button.

3.3 Configuration

The **Configuration** category allows you to set up the configuration of **System**, **Network**, **User**, **Email**, and **SNMP**.

3.3.1 Configuration → System

Click **System** item of **Configuration** to display the following page, which contains two fields: **System Device** and **Port Settings**.

System Device

You are allowed to do the basic set up for your MFP Server, including:

- **Server Name**: Specify a name for the MFP Server.
- **Location** (optional): Designate a location for the MFP Server.
- **Admin Contact** (optional): Assign an administrator name for the MFP Server.
- **Password**: Specify an administrator password with 3 to 8 characters. To set up the password, please enter the password in the New Password, and then enter the same one again in the Confirm Again.

Port Setting

In this field, you can specify a Port Name for the MFP Server, and give a brief description for it. Furthermore, it allows you to enable or disable PJL Printer setting by selecting *Yes* or *No* from the pull-down menu.

> **NOTE:** PJL (Print Job Language) has certain job requirements that must be met to work correctly. For more information, please refer to your printer's manual.

After done the System configuration, click **Save** button to restore the new configuration, or **Cancel** button to abandon.

Configuration → Wireless

Wireless Interface

- **Connection Mode:** Select one of the three connection modes.
  - **Infrastructure** (default) **-** Connects to compatibly configured wireless AP or router in a WLAN.
  - **Ad-Hoc -** Connect to compatibly configured wireless clients in the peer-to-peer mode.
- **SSID:** Assign the SSID in this box. You can manually input the name or select one from the pull-down menu. To search the available wireless AP within the network, click the *Site Survey* button.
- **Wireless Channel:** Select the channel from the pull-down menu. The default setting is *11*.
- **Transmission Rate:** Select the data transmit rate from the pull-down menu. The default setting is *Fully Automatic*.

WEP Encryption

This field allows you to configure the settings of data encryption. Please remember that the WEP key must be set before the data encryption is enforced.

- **WEP Encryption:** This option allows you to select *Disable*, *64 bits*, and *128 bits* for the encryption setting.
- **WEP Key Format:** You can decide the network key to be encoded by *ASCII* (ASCII characters) or *HEX* (hexadecimal digitals).
- **Authentication Type:** You can set the authentication type by selecting the settings: *Open System*, *Shared Key*, and *Both*.

Then, enter the key(s) for the network in the **Key** box (1~4).

WPA-PSK

Wi-Fi Protected Access is systems to secure wireless (Wi-Fi) networks.

- **Preshared Key: key in the preshared number (8-63 ASCII or 64 HEX characters)**

Advanced Setting

This field allows you to configure more settings, including:
- **Beacon Interval:** Enter the number of beacon interval time in millisecond.
- **Preamble:** This option allows you to set the length of preamble. Setting options are: *Long* - it is set to 144 bits; *Short* - it is set to 72 bits.

*TIP: Once you have changed the settings in each option, click **Save** to store the settings, or **Cancel** to abandon.*

3.3.2 Configuration → Network

Click **Network** item of **Configuration** to display the following page, which contains two fields: **TCP/IP**, **Microsoft Network,** and **Apple Talk**.

TCP/IP

This field allows you to configure the TCP/IP setting, including:

- **IP Address**: You may select to set up IP address manually or automatically. For Manually Assign, you should IP, Subnet Mask, and Default Gateway addresses in the corresponding frames.
- **DNS Server Address**: There are two frames for you to designate DNS Server address.
- **UPnP**: For you to enable or disable UPnP mode.
- **MAC Bonjour/Rendezvous**: For you to enable or disable MAC Bonjour/Rendezvous mode.
- **Second HTTP Port**: For you to enable or disable remote Web Configuration and IPP Printing.

Microsoft Network

Enter the name of the Workgroup that you want the MFP Server associated with in this field.

AppleTalk (Does not support in this hardware version)

3.3.3 Configuration → User

Click **User** item of **Configuration** to display the following page, which contains two fields: **Printing Control** and **Define Users**.

Printing Control

Allow you to enable or disable authorized users and unauthorized users that are listed in the User List to access the MFP Server.

After done the configuration, click **Save** button to restore the new configuration, or **Cancel** button to abandon.

Define Users

For you to edit User List: add/delete users in/from the User List. The User List at the bottom of the screen displays the current defined user and its related information for the MFP Server.

3.3.4 Configuration → E-mail

Click **Email** item of **Configuration** to display the following page, which contains two fields: **Email Account**, **Email Notification**, and **Email Printing**.

E-mail Account

You may assign an E-mail address to the MFP Server, so that your mail of the account can be printed out directly through the printer (ASCII text only). To enable this function, enter the E-mail account in the MFP Server **E-mail Address** frame.

- **Incoming E-mail (POP3) Server Address**: Enter the server address that is used to receive your E-mail here.
- **Outgoing E-mail (SMTP) Server Address**: Enter the server address that is used to send your E-mail here.

Moreover, if your mail server needs to verify the user when sending E-mail, you have to input **Account Name** and **Password** as well.

E-mail Notification

You can specify the MFP Server to send you an alter message via E-mail when the printer status is changed. To enable this function, check *Yes* for the **Enable e-mail notification for printer status changing** option. Also, enter the administrator's E-mail address in the **Admin E-mail Address** frame.

E-mail Printing

For you to do E-mail Printing configuration, including:

- **E-mail Printing (ASCII Text Only)**: Allows you enable or disable the E-mail printing in ASCII text format only.
- **Receive E-mail Interval**: Allow you to set up a time interval in minute in order to check/receive E-mail periodically.

After done the configuration, click **Save** button to restore the new configuration, or **Cancel** button to abandon.

3.3.5 Configuration → SNMP

Click **SNMP** item of **Configuration** to display the following page:

SNMP Management

Allow you to use SNMP (Simple Network Management Protocol) to manage complex networks.

- **Community 1/2/3**: Enter a name in the **Name** frame, and configure the **Access Right** by selecting *Read Only* or *Read/Write* from the pull-down menu.

After done the configuration, click **Save** button to restore the new configuration, or **Cancel** button to abandon.

3.4 Tools

The **Tools** category provides several tools for you to do various testing, reset the device, and upgrade firmware.
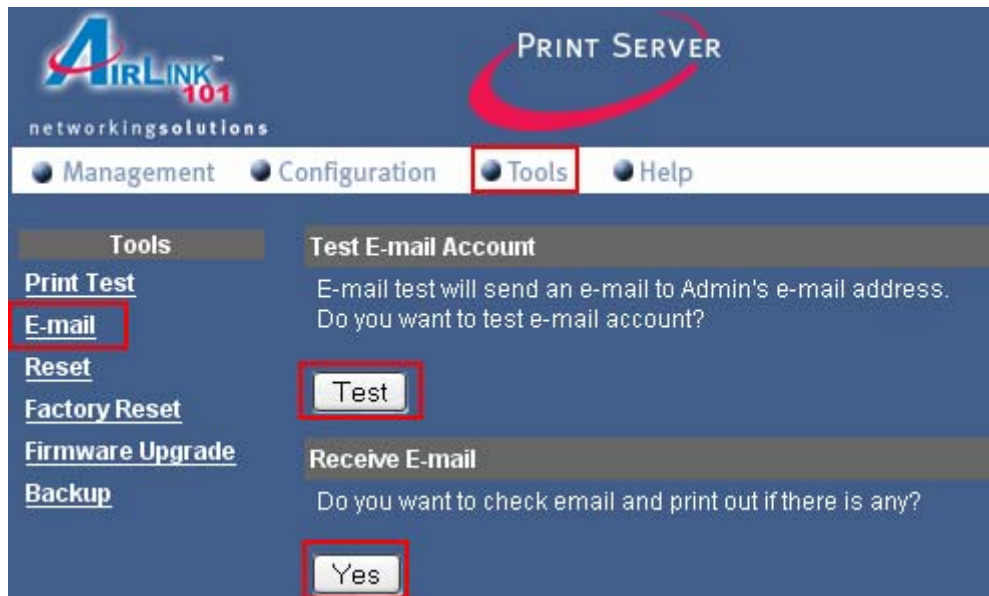
3.4.1 Tool → Print Test

Print Test

You may click the **Test** button to print a test page.

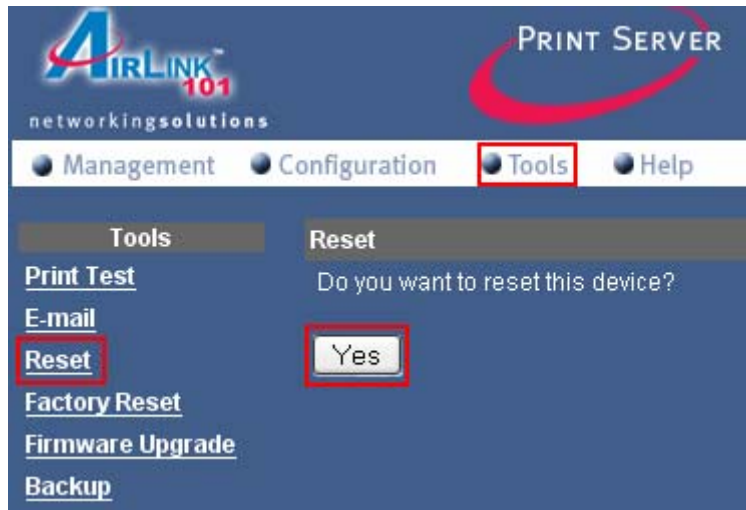*NOTE: This tool is only available for DOS Printing Printer.*

3.4.2 Tool → E-mail

Test E-mail Account

Click *Test* button to send a test E-mail to the given administrator's E-mail address.

Receive E-mail

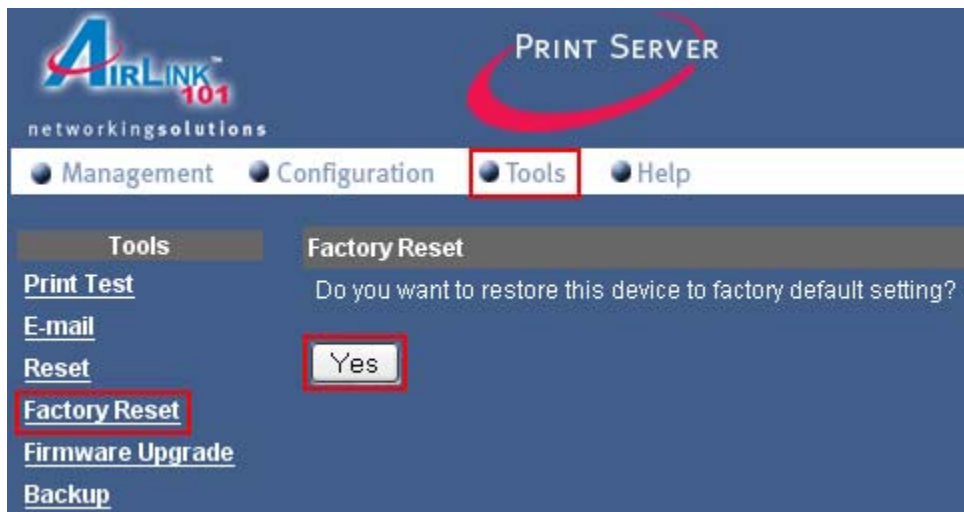Click *Yes* button to immediately check and receive E-mail, and then print out the mail when available.

3.4.3 Tool → Reset

Reset

Click *Yes* button to immediately reset the MFP Server.
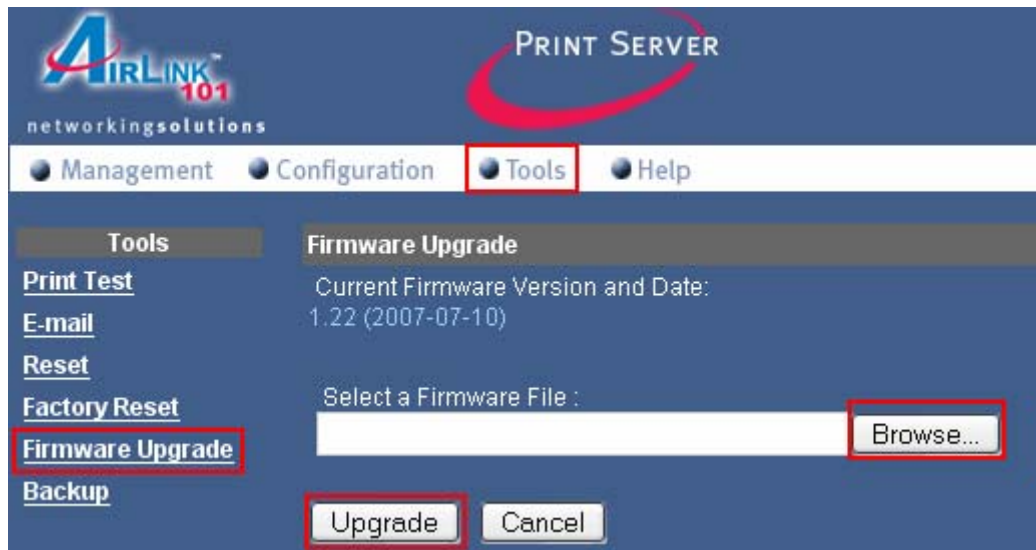
3.4.4 Tool → Factory Reset

Factory Reset

Click *Yes* button to reload the factory settings of the MFP Server.
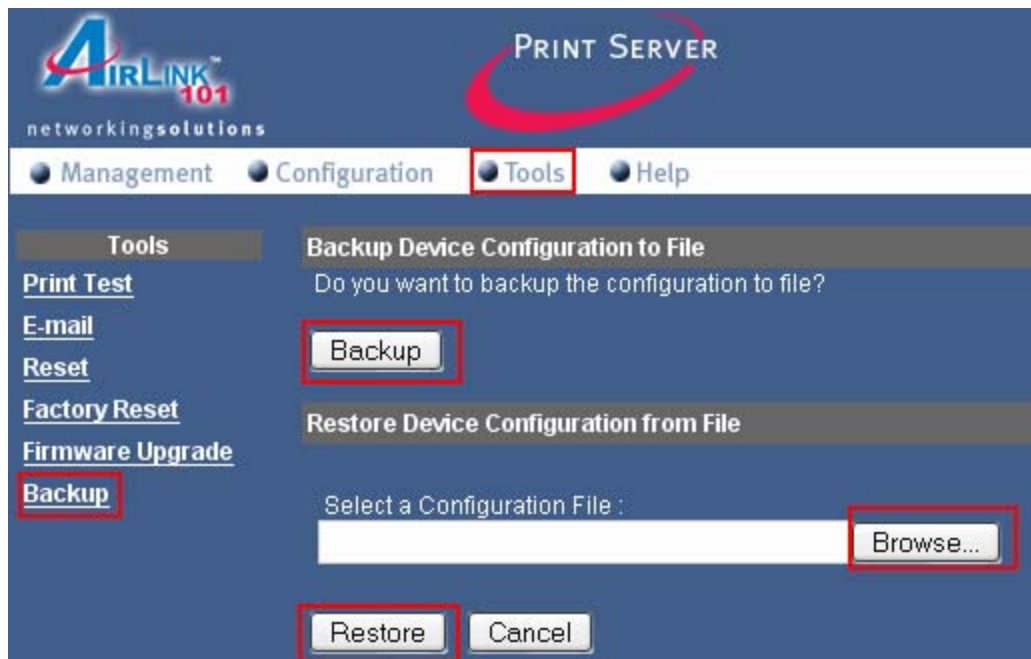
3.4.5 Tool → Firmware Upgrade

Firmware Upgrade

When a new version of firmware is available (e.g. downloading from the manufacturer's website), you can upgrade the firmware of your MFP Server by clicking **Browse** button to point to the firmware file, and then click **Upgrade** button to start the upgrade or **Cancel** button to abandon.

3.4.6 Tool → Backup

Backup Device Configuration to File

Click *Backup* button to backup your current configuration of the MFP Server to file and restore it in the computer.

Restore Device Configuration from File

You can reload a configuration file that you pre-saved by clicking **Browse** button to point to the backup file, and then **Restore** button to save, or **Cancel** button to abandon.

3.5 Help

The **Help** category provides brief information about the MFP Server for your reference.

Appendix – Specification

Printer Port
- 1 USB 2.0 Port

Wireless Standard
- IEEE 802.11g/b

Networking
- 1 auto-negotiating 10/100 Mbps RJ-45 port

Supported Protocols
- TCP/IP, SMB, NetBEUI, AppleTalk, BOOTP, SNMP, Telnet, TFTP, FTP, LPD, RARP, DHCP, IPP

System Hardware
- SDRAM: 8M Byte
- Flash ROM: 2M Byte

Security
- WPA-PSK
- WEP 64/128-bit

Power
- DC 5V, switching type

LED
- Power, USB, LAN

Supported OS
- Windows 2000/XP/Vista

Warranty
- 1- Year Limited Warranty

Technical Support

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Web site: www.airlink101.com