



# How To

## Service Documents from APPI

**Document: #HT000178**

**Document Title: Install Zebra Wireless Print Server**

**Product(s): Any TIZ Printer**

**Procedure:**

### *Installation and Setup of Zebra Wireless Print Server*

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In order to program the Wireless Print Server (WPS), LabelView must be installed on your PC, and a printer already set up for USB connection. When setting up for wireless, you need to be connected via an USB cable.

Work flow:

- Set up LabelView, and print via USB cable.
- Set up wireless via Zebra Setup Utilities.
- Set up LabelView for wireless.

### *Zebra Setup Utilities*

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This Guide will cover the use of Zebra Setup Utilities (ZSU).

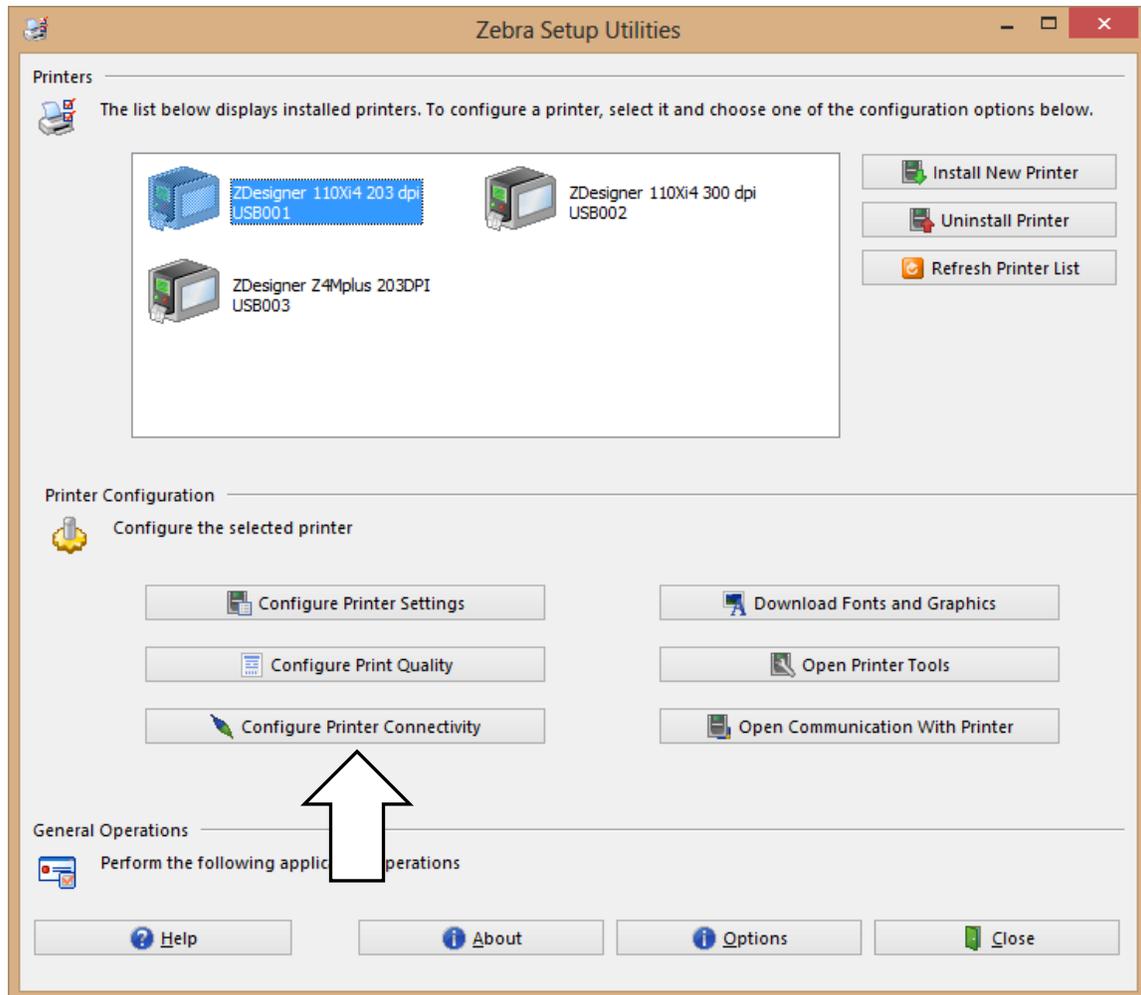
#### Choose Printer

In the **Main Window**, you should see your printer. It will look differently depending on your setup, but for this document, we will choose ZDesigner 110Xi4 203dpi USB001.



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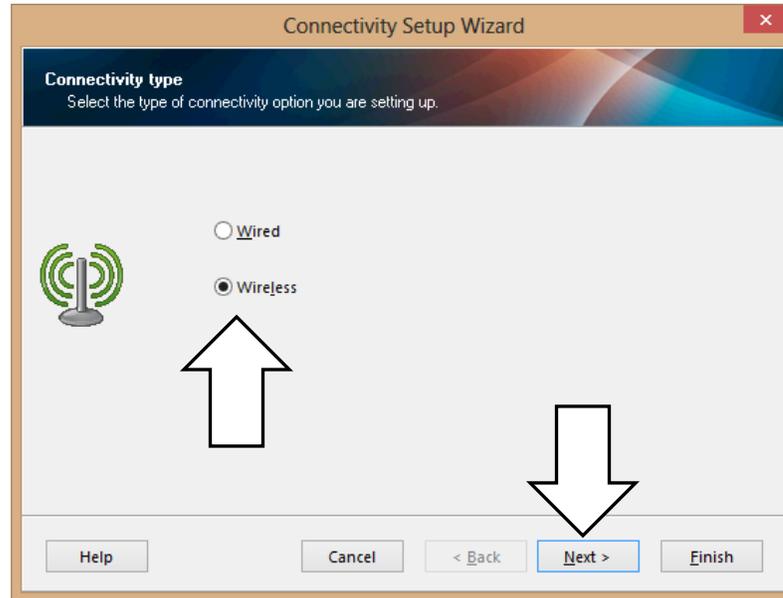
Click “Configure Printer Connectivity”.



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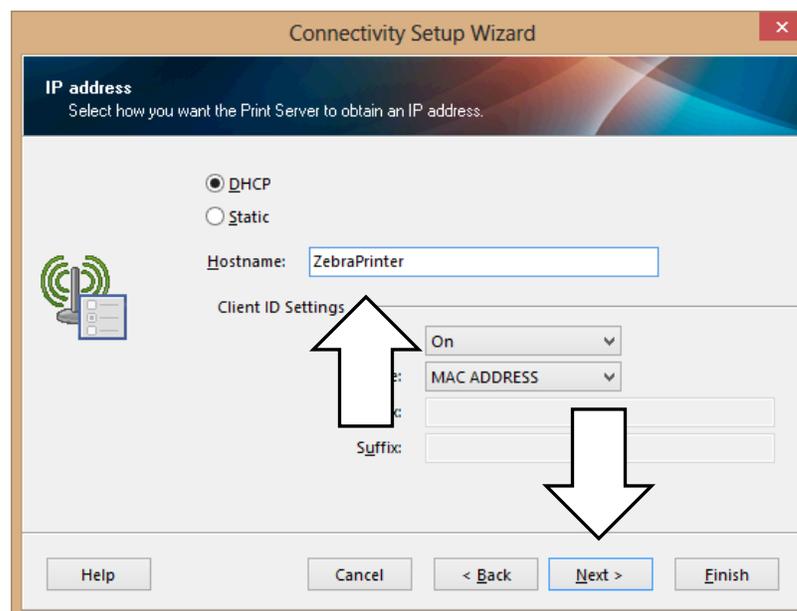
### Connectivity Type



Click “Wireless”, then “Next”.

### IP Address

Fill out accordingly. Host name can be anything, but setting it to ZebraPrinter makes it easier to find it in a list.



Click “Next”.



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### Wireless Settings

Fill out accordingly:

Connectivity Setup Wizard

**Wireless Settings.**  
Define Wireless Security.

Please enter your wireless settings below. Settings for selected security mode will be configured on the following page.

ESSID:

Security mode:

Security username:

Security password:

All security options may not be available in your printer. Please refer to the Wireless Print Server and Wireless Plus Print Server User Guide for supported security protocols.

Help Cancel < Back Next > Finish

The next screen will change according to the security option you put in here. For this document, WEP 128-bit was chosen.

Click "Next".

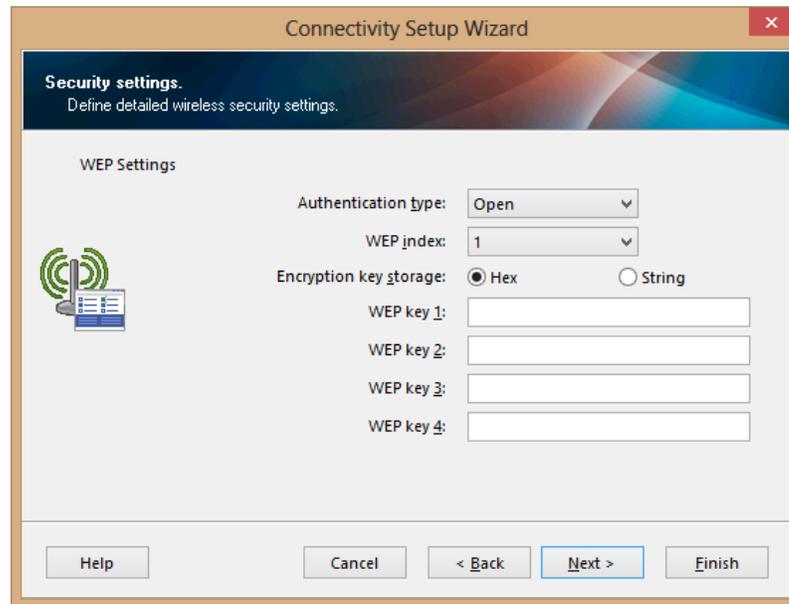


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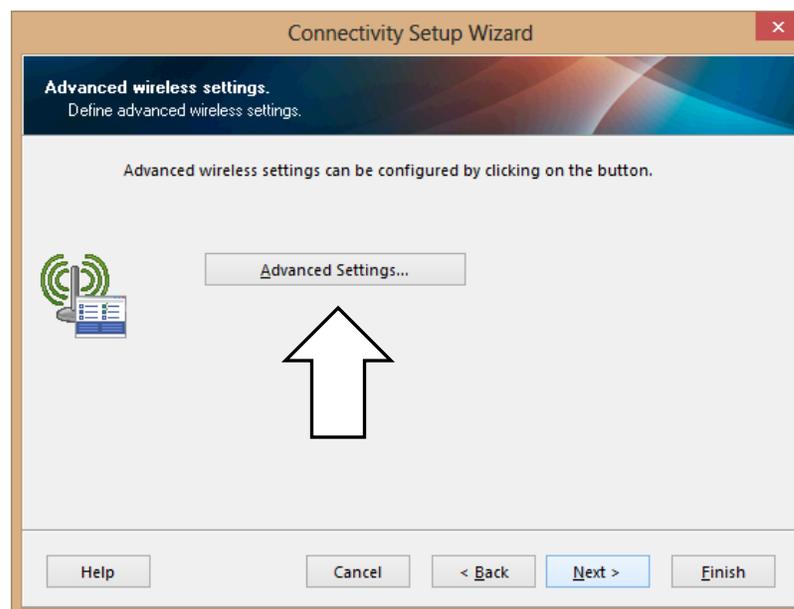
### Security Settings

Fill out accordingly:



Click “Next”.

Click “Advanced Settings” if necessary. If not, click “Next”.





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### Advanced Settings

Advanced Settings” has these settings:

**Advanced Wireless Settings**

**General**

Operating mode: Infrastructure

Preamble: Long

**Antennas**

Transmit: Diversity

Receive: Diversity

Transmit power: 100

**Front panel wireless password**

The wireless password, which is separate from the printer password, protects the wireless LCD items from being seen or changed when it is set to a non-zero value. The factory default is 0000.

Old password: 0

New password: 0

**Detection of wired print server**

Note: If running a wireless printer only this will greatly reduce the time needed to associate on the network.

Skip the detection of a wired print server on boot up

OK Cancel

Click “OK” then “Next”.

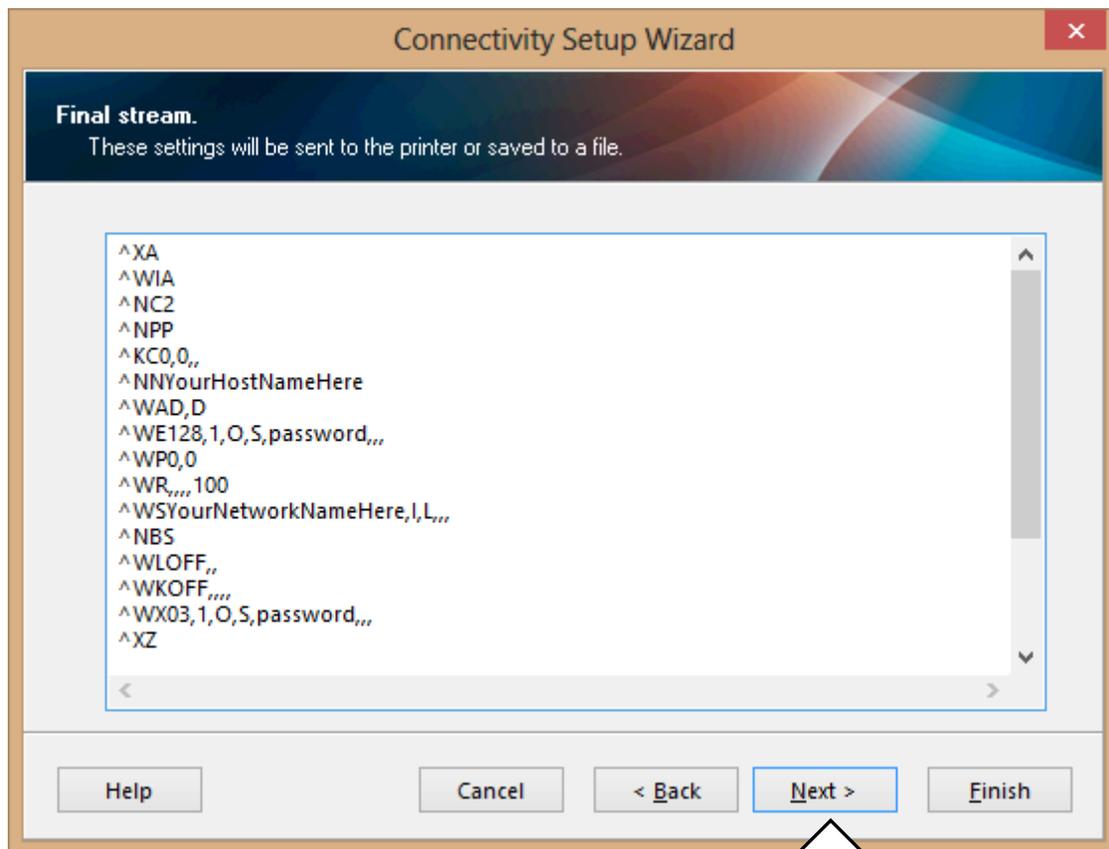


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### Final Stream

This screen shows what will be sent to the printer.



Click "Next".

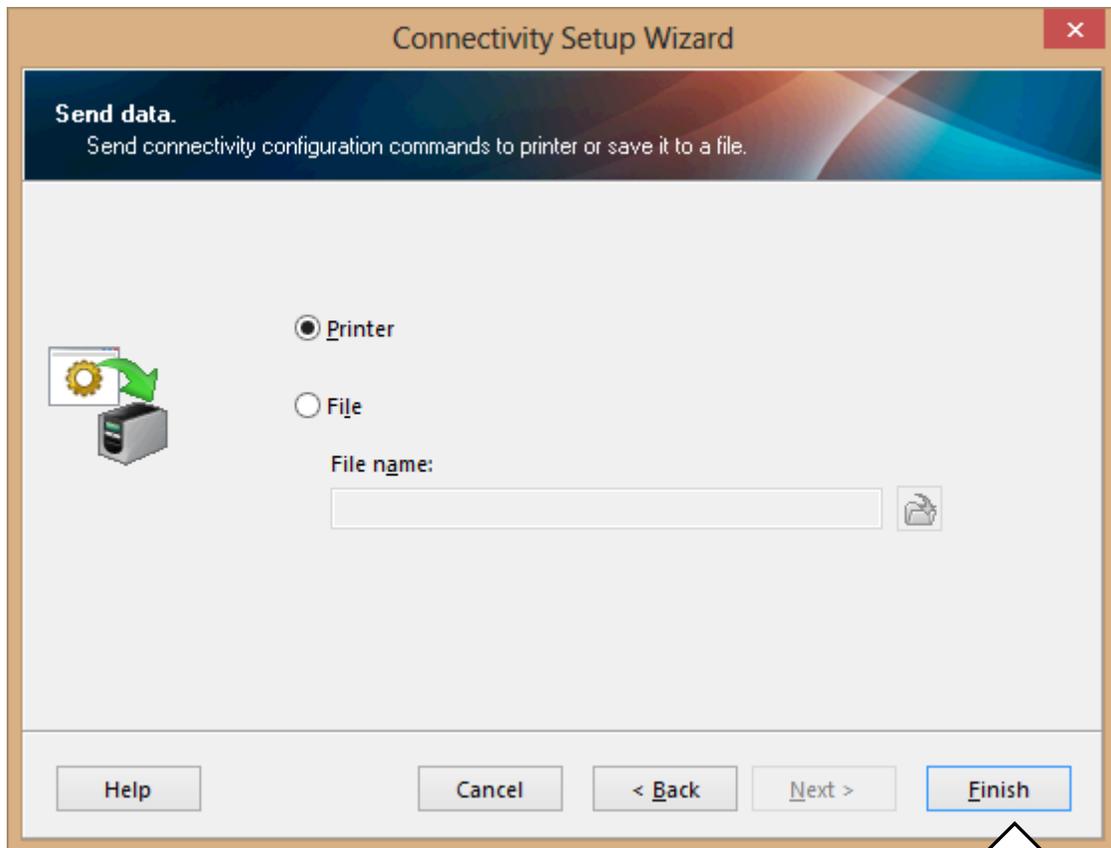


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### Send Data

This screen gives the choice of saving settings to a file. Click “Finish”.



You can now remove the USB cable.



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### *Print Network Label*

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On the bagger, go via Technical Assist to Printer screen to clear labels, then print a network label to find printer IP address. Your label should look something like this:

ZTC 110Xi4-203i	
YOURNETWORKNAMEHERE	
2.12.1761.....	OPTION FIRMWARE
Wireless.....	PRIMARY NETWORK
NO.....	LOAD FROM EXT?
Wireless.....	ACTIVE PRINTSRVR
EXTERNAL WIRED	
ALL.....	IP PROTOCOL
000.000.000.000....	IP ADDRESS
255.255.255.000....	SUBNET MASK
000.000.000.000....	DEFAULT GATEWAY
010.003.001.088....	WINS SERVER
YES.....	TIMEOUT CHECKING
300.....	TIMEOUT VALUE
000.....	ARP INTERVAL
9100.....	BASE RAW PORT
000000000000.....	MAC ADDRESS
INTERNAL WIRED	
ALL.....	IP PROTOCOL
000.000.000.000....	IP ADDRESS
255.255.255.000....	SUBNET MASK
000.000.000.000....	DEFAULT GATEWAY
000.000.000.000....	WINS SERVER
YES.....	TIMEOUT CHECKING
300.....	TIMEOUT VALUE
000.....	ARP INTERVAL
9100.....	BASE RAW PORT
000000000000.....	MAC ADDRESS
WIRELESS*	
ALL.....	IP PROTOCOL
192.168.000.157....	IP ADDRESS
255.255.255.000....	SUBNET MASK
192.168.000.001....	DEFAULT GATEWAY
192.168.000.002....	WINS SERVER
YES.....	TIMEOUT CHECKING
300.....	TIMEOUT VALUE
000.....	ARP INTERVAL
9100.....	BASE RAW PORT
YES.....	CARD INSERTED
02DFH.....	CARD MFG ID
9103H.....	CARD PRODUCT ID
001977c191A.....	MAC ADDRESS
YES.....	DRIVER INSTALLED
INFRASTRUCTURE....	OPERATING MODE
YOURNETWORKNAMEHERE	ESSID
100.....	TX POWER
11Mb/s.....	CURRENT TX RATE
DIVERSITY.....	RECEIVE ANTENNA
DIVERSITY.....	XMIT ANTENNA
OPEN.....	WEP TYPE
WPA PSK.....	WLAN SECURITY
1.....	WEP INDEX
020.....	POOR SIGNAL
LONG.....	PREAMBLE
ON.....	PULSE ENABLED
15.....	PULSE RATE
OFF.....	INTL MODE
07FFH.....	CHANNEL MODE



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### *Ping Connection Test*

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Read the address from **IP ADDRESS** in the table above. Open a command prompt, and **PING** the printer.

Windows XP and Windows 7:

Start – “Run”, type “CMD” and press “Enter”.

#### **Windows 8:**

Go to “Charms” (lower right corner), click on “Search” (magnifying glass), and type “CMD”, and press “Enter”.

In the CMD window:

```
C:\Users\Username>ping 192.168.0.157
```

```
Pinging 192.168.0.157 with 32 bytes of data:  
Reply from 192.168.0.157: bytes=32 time=118ms TTL=60  
Reply from 192.168.0.157: bytes=32 time=5ms TTL=60  
Reply from 192.168.0.157: bytes=32 time=108ms TTL=60  
Reply from 192.168.0.157: bytes=32 time=4ms TTL=60
```



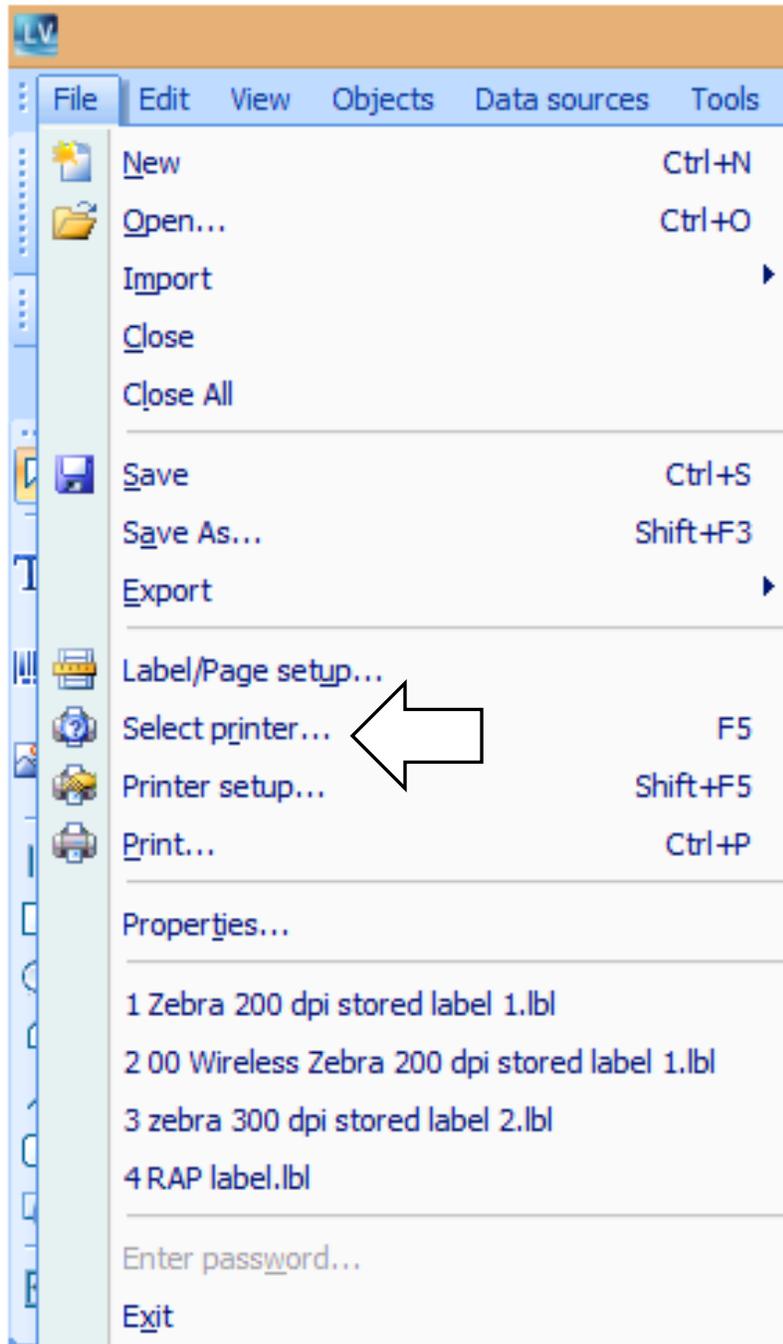
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### *LabelView Setup*

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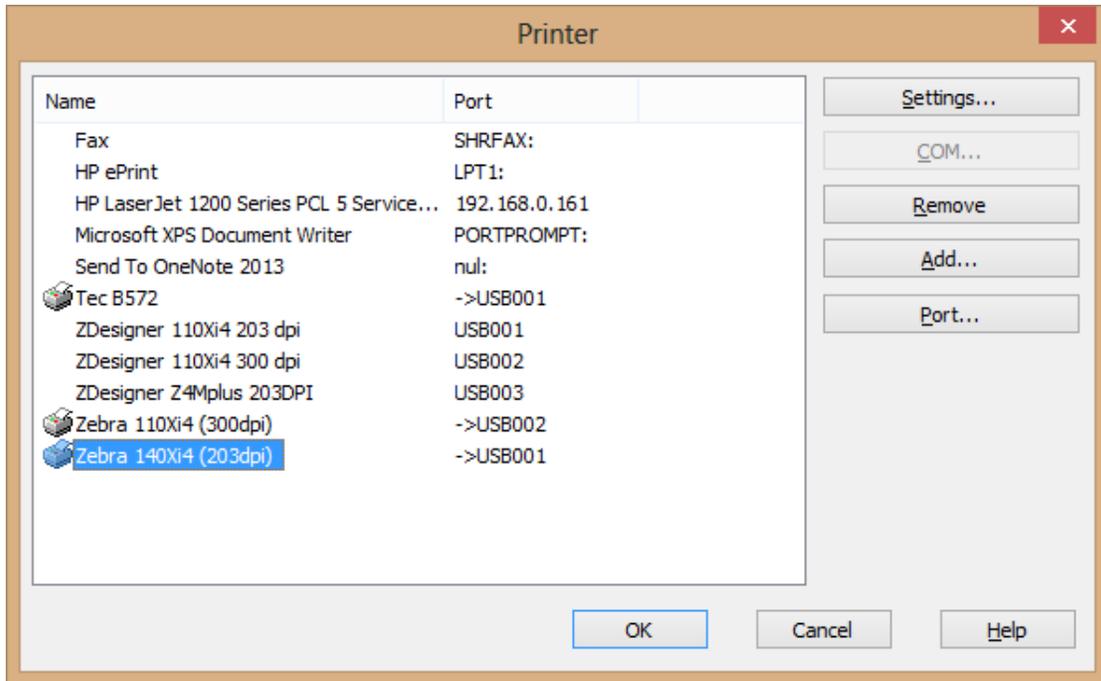
In LabelView, you need to open a label, then click “File” – “Select printer”



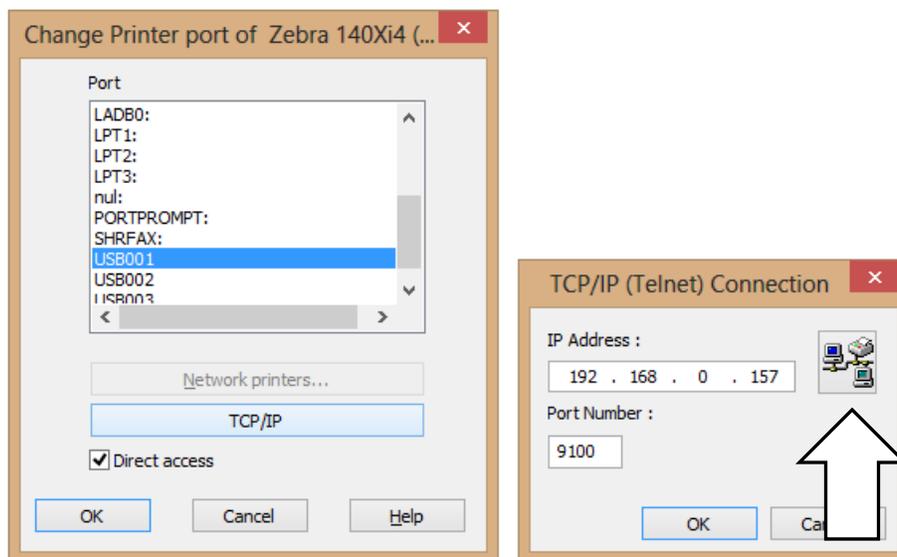
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Choose your printer. Click “Port...”



Click “TCP/IP”

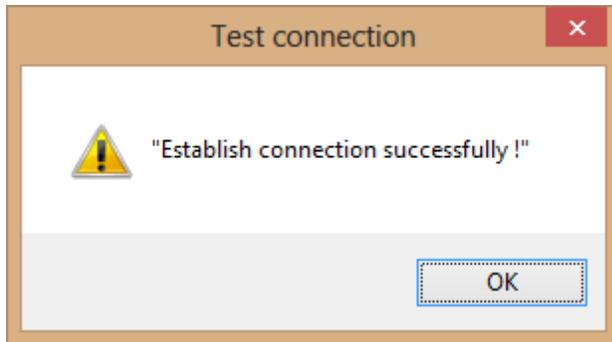


Type in the IP Address from your label. Check the connection with the network button next to the address field.



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Click “OK”, “OK”, “OK” and “OK”.

You can now test your connection by sending a label over to your printer.

### *Troubleshooting Wireless Print Server Installation*

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Advanced Poly-Packaging can only do the wireless setup providing the customer’s network automatically assigns addresses.

If customer’s network is based on anything else than TCP/IP, or there is an issue such as IP address conflict, the customer will have to call on their IT service.

#### IP Address Conflict

When a device is logging on to a network, it will look for certain standard items, such as a DHCP server. It will request an address from DHCP, and the DHCP server will provide any given unused address.

In some rare cases, DHCP can give out an address that is already in use. An example:

A laptop had been assigned address 192.168.0.157, and then went into sleep mode due to not being used for a while. DHCP saw 157 as free, and will reassign 157 to the next device trying to log on. When the laptop is being used again, it will try to re-use 157, and a conflict will occur. For the most part, DHCP will be able to resolve this by reassigning addresses.



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It does happen that DHCP doesn't see the conflict, and it will persist. If this or similar scenarios happens to our wireless card, the result is most often that LabelView is inexplicably unable to communicate with the printer for what can be extended periods of time before being online again.

The easiest way to tell whether this is happening, is to use a small program called Wireless Network Watcher, from Nirsoft. It can be found [here](#):

This little utility is safe to use, because it only lists network devices without allowing anything to be changed.

You need your printer's network address and MAC address, which can either be accessed from the front panel, or use the touch screen to get into the printer settings under **"Technical Assist" – "Printer Status"** and press **"Network Label"**.

Once you have it, compare your Bagger's IP Address with the listing in Wireless Network Watcher. If there is a conflict, your printer's IP address will most likely show up with the wrong MAC address.

The customer's IT service will have to resolve this conflict by manually reassigning addresses.



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### *Glossary*

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#### TCP/IP

Transport Control Protocol/Internet Protocol is the system standard for internet, and most Intranet (Internal network) systems that will be encountered when installing network printers.

#### IP Address

Internet Protocol address is the address that identifies an individual computer, or a device such as a wireless network card on an Intranet. It is generally in the form: XXX.XXX.XXX.XXX, ranging from 000.000.000.000 to 255.255.255.255. When assigning addresses, a DHCP server will assign within a range, such as 192.168.0.1 to 192.168.0.255. 99% of all home networks will use the 192.168.X.XXX range, and in many cases the same range can be found in business networks.

The address of the computer can be checked by going to “**Start**” – “**Run**”, type in “**cmd**”. Once the black Command window comes up, type in “**ipconfig**”, and it will list the current network status.

#### DHCP

Dynamic Host Configuration Protocol is a network system that automatically assigns IP addresses to any PC/Mac/printer/device that logs on to the network.

#### MAC Address

Media Access Control Address is a hard-coded, unique number for every network item ever made by any manufacturer. It is a hexadecimal number, and can look like XXXXXXXXXXXX, OR XX:XX:XX:XX:XX:XX, OR XX-XX-XX-XX-XX-XX.

The Wireless Print Servers sold by APPI have a sticker listing the MAC Address for that device. It comes in a separate bag, and can be placed on the Wireless Print Server.