



ZEBRA Printer Setup Utility for Android with Security Assessment Wizard Owner's Manual

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Printer Setup Utility for Android with Security Assessment Wizard

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Introduction and Installation

This section provides information about Zebra Printer Setup Utility Application and includes supported operating systems, connectivity, printers, and devices.

application (app) that assists with the set up and configuration of a Zebra printer running Link-OS Zebra Printer Setup Utility is an Android™. This application is particularly useful for printers that do not have LCD displays as the application provides an improved method to connect to a printer, configure, and determine its status via a mobile device.



IMPORTANT: Depending on your printer model, this application may have limited functionality. Some application features will not be available for the detected printer model. Features that are unavailable are grayed out or not shown on the menus.

Zebra Printer Setup Utility is available on Google Play™.

Target Audience

Zebra Printer Setup Utility is intended for all customers and partners. Moreover, Zebra Printer Setup Utility may be used by Zebra Technical Support as part of a fee-based service called Install- Configure-Assist (ICA). As part of the service, customers are instructed how to download the application and receive guided support throughout the set up process.

Requirements

Printer Platform

Zebra Printer Setup Utility supports the following Zebra printers:

| Mobile Printers | Desktop Printers | Industrial Printers | Print Engines |
|---|---|---|--|
| <ul style="list-style-type: none"> • iMZ series • QLn series • ZQ112 and ZQ120 • ZQ210 and ZQ220 • ZQ300 series • ZQ500 series • ZQ600 series • ZR118, ZR138, ZR318, ZR328, ZR338, ZR628, and ZR638 | <ul style="list-style-type: none"> • ZD200 series • ZD400 series • ZD500 series • ZD600 series • ZD888 | <ul style="list-style-type: none"> • ZT111 • ZT200 series • ZT400 series • ZT500 series • ZT600 series | <ul style="list-style-type: none"> • ZE500 series |

The amount of viewable information on a given device varies by screen size, and may require you to scroll to access all of the information.

Feature Overview

The features listed below are explained in detail in other areas of this guide.

- Printer discovery via multiple connectivity methods.
- Support for Bluetooth Low Energy (Bluetooth LE), Bluetooth Classic, Wired and Wireless network, and USB.
- Simple printer to mobile computer pairing, using the Print Touch system.
- Connectivity Wizard for configuring connection settings.
- Media Wizard for configuring key Media settings.
- Print Quality Wizard for optimizing output legibility.
- Access to extensive printer status information including details on the printer's serial number, battery status, media settings, connectivity options, and odometer values.
- Connectivity to popular file sharing services.
- Ability to retrieve and send files stored on the mobile device or on a cloud storage provider.
- File transfer – used to send file contents or OS updates to the printer.
- Easy to use Printer Actions, including calibrate media, print a directory listing, print a configuration label, print a test label, and restart the printer.
- Install, enable, and disable Printer Emulation languages.
- Printer Security Assessment Wizard to assess printer security posture, compare your settings against security best practices, and make changes based on your conditions to increase protection.

Installing Zebra Printer Setup Utility

Zebra Printer Setup Utility is available on Google Play.



NOTE: If you download the application from anywhere other than Google Play, your security setting must be enabled to download and install non-market applications. To enable this function:

1. From the main Settings screen, tap Security.
2. Tap Unknown sources.
3. A check mark is displayed to indicate it is active.



NOTE: If you download the Zebra Printer Setup Utility application (.apk) to a laptop/desktop computer instead of directly to the Android device, you will also need a generic utility to transfer the .apk file to the Android device and install it. An example of a generic utility is Android File Transfer from Google, which allows Mac OS X 10.5 and higher users to transfer files to their Android device. You can also sideload the Zebra Printer Setup Utility apk; see Sideload on page 10.

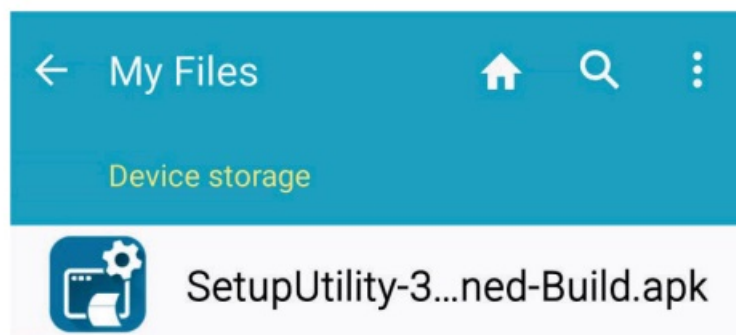
Sideload

Sideload means installing applications without using the official application stores such as Google Play, and includes those times when you download the application to a computer.

To sideload the Zebra Printer Setup Utility application:

1. Connect your Android device to the computer using the appropriate USB (or micro USB) cable.
2. Open two Windows Explorer windows on your computer: one window for the device and one for the computer.
3. Drag and drop the Zebra Printer Setup Utility application (.apk) from the computer to your device.
Because you will need to find the file later, note the location where you placed it on your device.
HINT: It is generally easiest to place the file in the root directory of your device rather than inside a folder.
4. See Figure 1. Open the file manager application on your device. (For example, on a Samsung Galaxy 5, your file manager is My Files. Alternatively, download a file manager application on Google Play.)
5. Locate the Zebra Printer Setup Utility application in the files on your device and tap it to initiate the installation.

Figure 1 Sideload Installation



Discovery and Connectivity




This section describes the discovery methods and using the Connectivity Wizard.

IMPORTANT: Depending on your printer model, this application may have limited functionality. Some application

features will not be available for the detected printer model. Features that are unavailable are grayed out or not shown on the menus.

Printer Discovery Methods

The following methods describe how to use Zebra Printer Setup Utility to discover and connect to your printer.



- Tap and Pair with a printer (recommended)
- Discover Printers
- Manually select your printer
-  Bluetooth Classic  or Bluetooth Low Energy  pairing via your device Settings menu

For successful network discovery, your mobile device should be connected to the same subnet as your printer. For Bluetooth communications, Bluetooth must be enabled on your device and printer. NFC must be enabled to use the Print Touch feature. Refer to the user documentation for your device or printer for further details on configuring the printer and device.

NOTES:

- Bluetooth discovery can only retrieve the Friendly Name and MAC Address.
If you encounter issues with printer discovery (and at times when Zebra Printer Setup Utility may not be able to discover your printer), you may need to manually enter your printer's IP address.
Having your printer and mobile device on the same subnet gives you the greatest chance of successfully discovering the printer.
- If your printer has both Bluetooth and network connections enabled, Zebra Printer Setup Utility will pair via the network. If this is the first time you have connected to any printer (or if you have recently unpaired from this printer), and you are pairing via Bluetooth, you are prompted to confirm the pairing request (2) on both the printer and the device (see Figure 2).
- Starting with Link-OS v6, the bluetooth discoverable function is now off by default and other devices cannot see or connect to the printer. With discoverability disabled, the printer still makes connections with a remote device that was previously paired.

RECOMMENDATION: Only keep discoverable mode enabled while pairing to a remote device. Once paired, discoverable mode is disabled. Starting with Link-OS v6, a new feature was introduced to enable limited discovery. Holding down the FEED button for 5 seconds will enable limited discovery. The printer automatically exits limited discovery mode after 2 minutes have elapsed, or a device has successfully paired with the printer. This enables the printer to operate safely with discoverable mode disabled until a user with physical access to the printer activates it. Upon entering Bluetooth Pairing Mode, the printer provides feedback that the printer is in Pairing Mode using one of these methods:

- On printers with a Bluetooth Classic or Bluetooth Low Energy screen icon or Bluetooth/Bluetooth Low Energy LED, the printer shall flash the screen icon or LED on and off every second while in pairing mode.
- On printers without a Bluetooth Classic  or Bluetooth LE  screen icon or Bluetooth Classic or Bluetooth LE LED, the printer shall flash the Data icon or LED on and off every second while in pairing mode.
- Specifically, on the ZD510 model, the 5 flash LED sequence places the printer into Bluetooth Pairing Mode.

Print Touch (Tap and Pair)

The Near Field Communication (NFC) tag on the Zebra printer and your smartphone or tablet may be used to establish radio communication with each other by tapping the devices together or bringing them into close proximity (typically 4 cm (1.5 in) or less).

Zebra Printer Setup Utility acknowledges the start of the Print Touch process, the pairing, any associated errors, and the successful discovery of the printer.

IMPORTANT:

- NFC must be enabled on your device to use the Print Touch feature. If you do not know where the NFC location on your device is, refer to your device's documentation. The NFC location is often at one of the device's corners, but could be elsewhere.
- Certain Android phones may not pair via Print Touch. Use one of the other connection methods.
- When you scan an NFC tag, the Printer Setup Utility performs a search for connection types in the following order, and connects to the first one that is successful:
 - a. Network
 - b. Bluetooth Classic
 - c. Bluetooth LE



NOTE: If you encounter issues with printer discovery (for example, Zebra Printer Setup Utility may not discover your printer), manually enter your printer's IP address.

Having your printer and Android device on the same subnet will give you the greatest chance of successfully discovering the printer.

To pair with a printer via Print Touch:

1. Launch the Zebra Printer Setup Utility application on your device.
2. See Figure 2. Upon launching for the first time, it will indicate No printer selected (1).

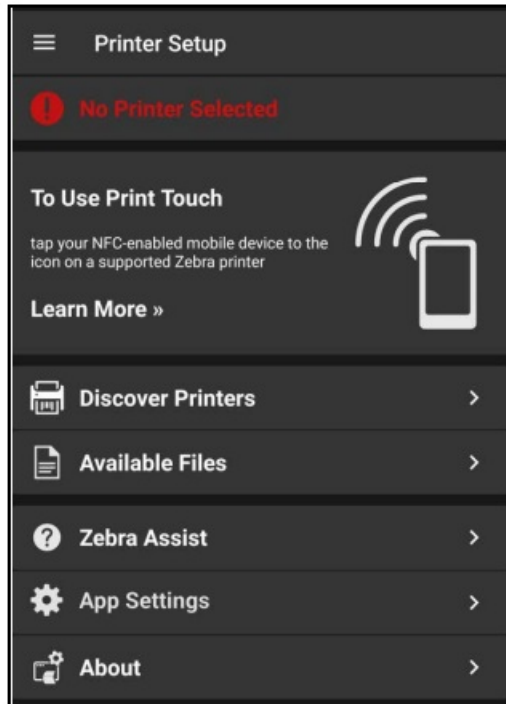


The simplest method to set up a connection to your printer with an NFC-enabled device is to use the Print Touch feature on printers that support Print Touch. Printers supporting Print Touch will have this icon on the outside of the printer:

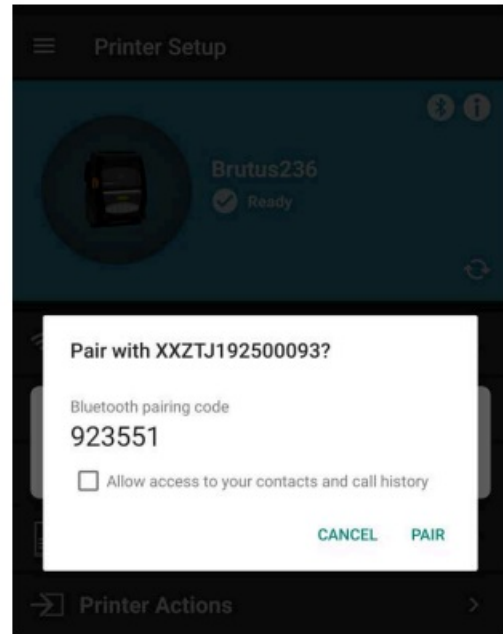
3. Do one of the following:
 - Tap your device's NFC location against the Print Touch icon on the printer. Zebra Printer Setup Utility finds and connects to the printer. Follow the on-screen prompts.
 - On printers with enhanced security enabled, press and hold the FEED button for 10 seconds until either the Bluetooth/Bluetooth Low Energy icon or the data light flashes; this puts the printer in a discoverable mode. Tap your device's NFC location against the Print Touch icon on the printer. Zebra Printer Setup Utility finds and connects to the printer. Follow the on-screen prompts.

Figure 2 Zebra Printer Setup Utility Dashboard (First Time Use)

(1) Side Drawer



(2) Bluetooth Pairing Confirmation



Discover Printers

To discover printers without using Print Touch:



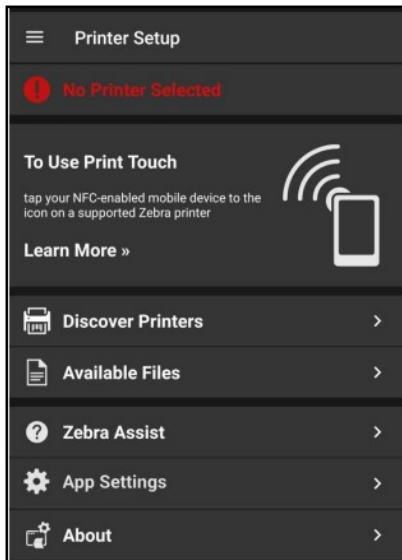
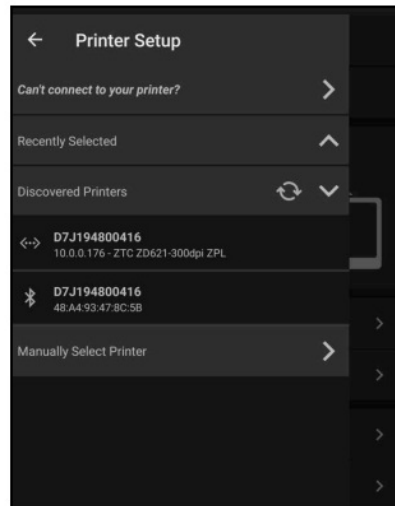
1. See Figure 3. From the Dashboard, tap  Menu.
2. If no printers have previously been discovered, tap Discover Printers (1). If you have previously discovered printers, tap  Refresh in the Printer Setup side drawer (2).
Zebra Printer Setup Utility searches and displays a list of discovered Bluetooth and network connected printers. At the completion of the discovery, the Discovered Printers group is updated. Progress dialogs are displayed during the discovery process.
3. Tap the desired printer in the list (2).
Zebra Printer Setup Utility finds and connects to the printer based on your Bluetooth or network connection.
4. If you are unable to connect to your printer, tap Can't connect to your printer? (2).

Figure 3 Manually Select a Printer

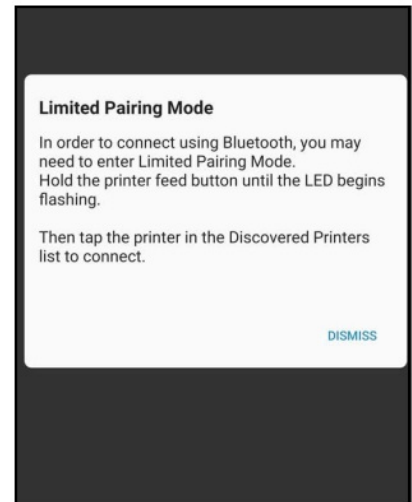
(1) Printer Setup



(2) Side Drawer



(3) Limited Pairing Mode



Bluetooth Pairing via the Settings Menu

You may pair your mobile device with your printer using the device's Settings menu. To pair with a printer using the Settings menu on your device:

1. On your device, go to the Settings menu.
2. Select Connected Devices.
A list of paired devices will appear, as well as a list of unpaired devices.
3. Tap +Pair new device.
4. Tap on the device you wish to pair with.
5. Confirm the pairing code is the same on both your device and on the printer.

A new scan discovers and shows the paired devices, as well as other available devices. You may pair with another printer on this screen, initiate a new scan, or exit the menu.

Manually Select Printer

To add a printer using Manually Select Printer:


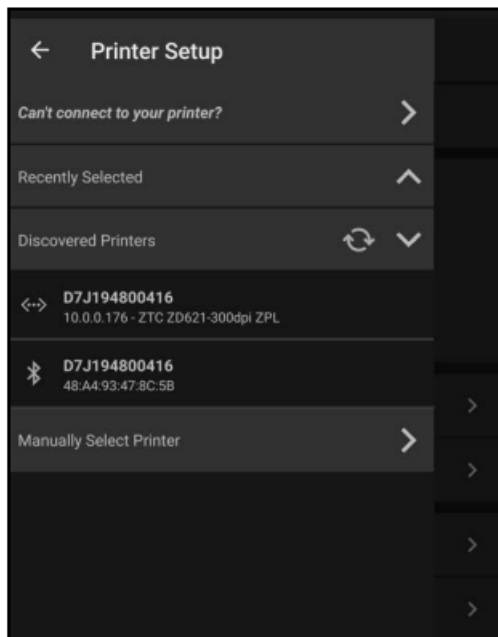
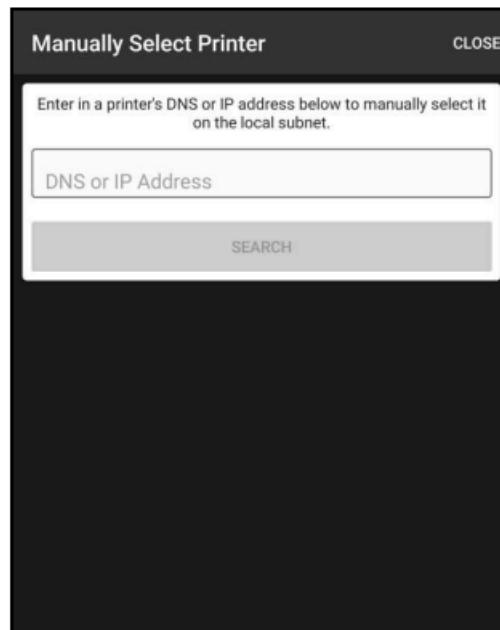
1. Open the Dashboard.
2. Tap  Menu to open the Side Drawer.
3. See Figure 4. Tap Manually Select Printer.
4. Enter the printer's DNS/IP address, and then tap Search to begin the discovery.

Figure 4 Manually Select a Printer

Side Drawer



Manually Select the Printer



Bluetooth and Limited Pairing Mode

If you are using Bluetooth and are unable to connect to your printer, try putting your printer in Limited Pairing Mode.

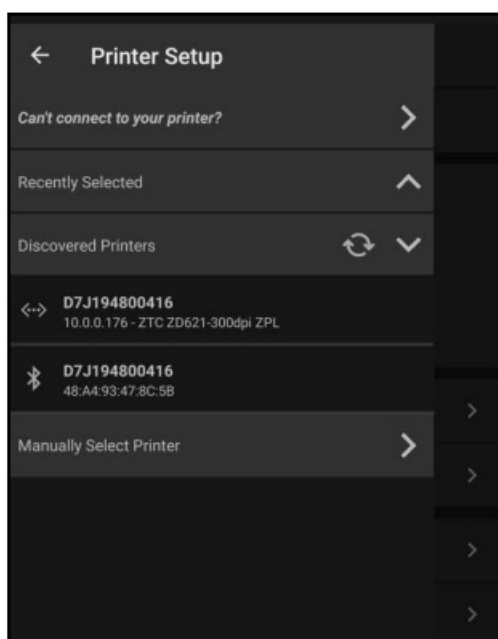


NOTE: Limited Pairing Mode applies to printers running Link-OS 6 and later.

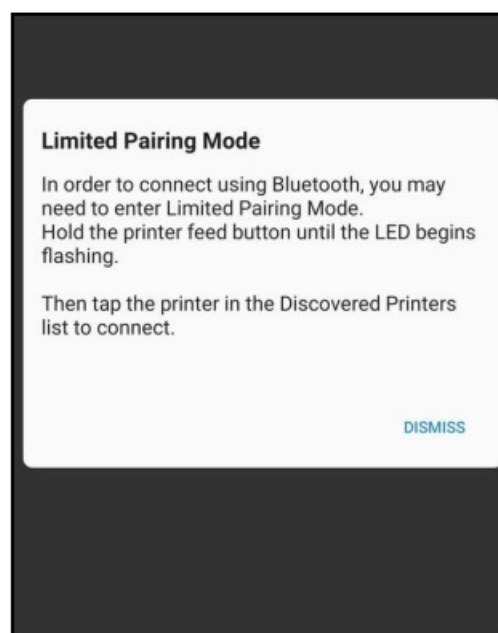
1. See Figure 5. Tap Can't connect to your printer? in the Printer Setup side drawer (1).
2. Follow the instructions (2) on the screen to put your printer in Limited Pairing Mode.

Figure 5 Limited Pairing Mode

(1) Side Drawer



(2) Limited Pairing Mode





Connectivity Wizard

The Connectivity Settings screen is where you can adjust the connection settings on the printer for

wired/Ethernet, wireless, or Bluetooth.
To change your Connectivity Settings:

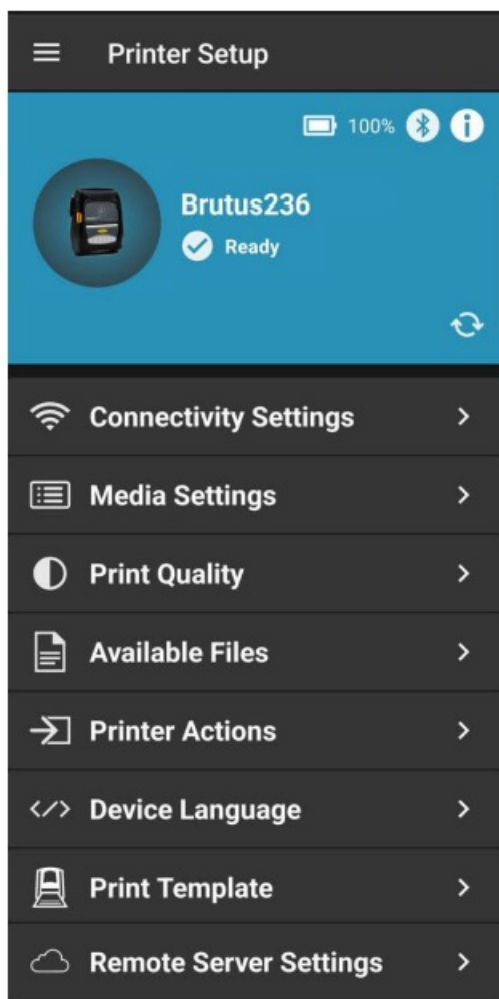
1. See Figure 6. From the Dashboard, tap Connectivity Settings (1).

-  indicates the printer is connected and ready to print.
-  indicates there is a communication error with the printer.
- If the printer is not connected the background is grayed out.

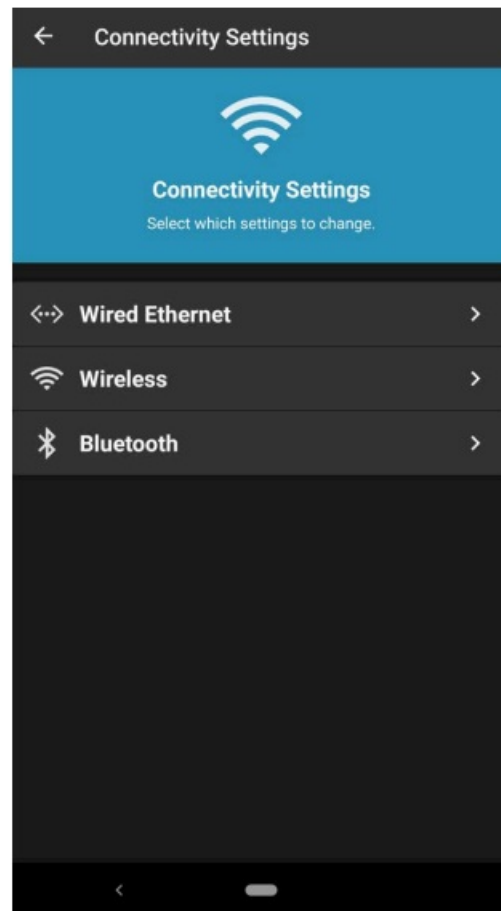
2. Select your method (Wired Ethernet, Wireless, or Bluetooth) to connect to the printer, and follow the prompts.

Figure 6 Dashboard Screen and Connectivity Settings

(1) Dashboard Screen



(2) Connectivity Screen



Wired Ethernet

Wired Ethernet is used when a printer is connected to your LAN using an Ethernet cable. The advantage of a wired connection is that it is generally faster than a wireless (WiFi) or Bluetooth connection.

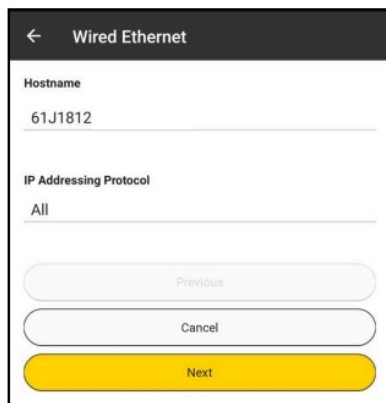
See Figure 7. Within the Wired/Ethernet Settings menu, you may change, save, and apply the following elements:

- Hostname (1)
- IP Addressing Protocol (1)
- Client ID (2)
- Client ID Type (2)
- Save settings to file (3). Follow the prompts to save the file to your preferred location.

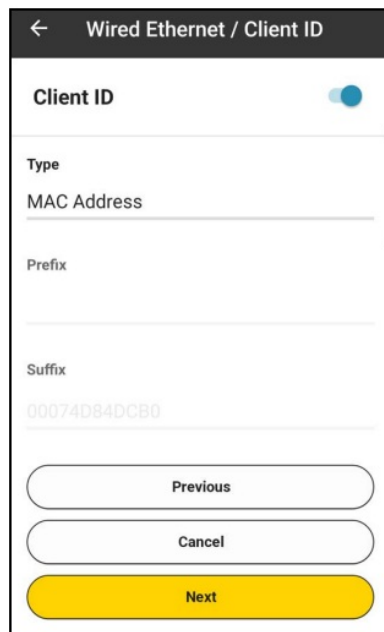
- Apply (3) settings on the printer

Figure 7 Wired Settings Screens

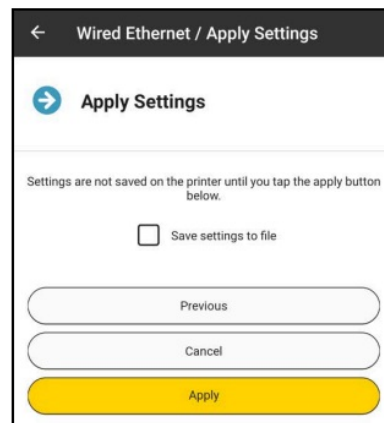
(1) Hostname and IP



(2) Client ID Screen



(3) Apply Settings Screen

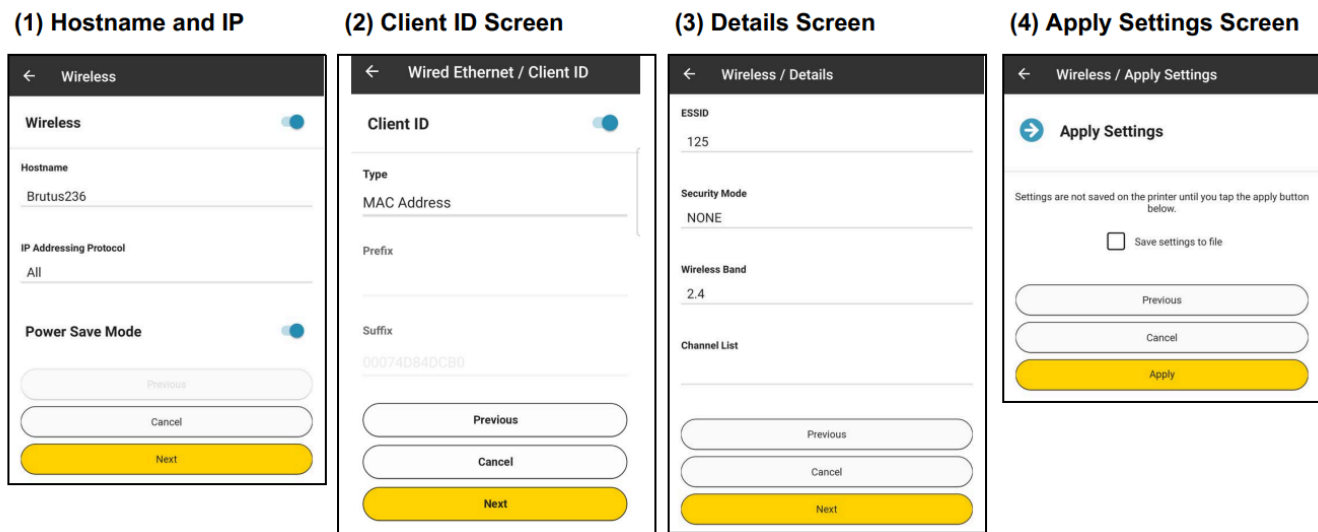


Wireless

Wireless is the term used to describe any computer network where there is no physical wired connection between sender and receiver. Rather, the network is connected by radio waves and/or microwaves to maintain communications. Within the Wireless Settings (see Figure 8) menus, you may change, save, and apply the following elements:

- Wireless Menu (1)
- Hostname
- Turn Wireless on/off
- IP Addressing Protocol
- Power Save Mode
- Wireless / Client ID Menu (2)
- Client ID
- Client Type
- IP Address, Subnet Mask, Default Gateway (applicable when Permanent IP Addressing protocol is selected)
- Wireless / Details Screen (3)
- ESSID
- Security Mode
- Wireless Band
- Channel List
- **NOTE:** WEP security mode has been removed from Link-OS v6 firmware, but is still applicable in Link-OS v5.x and earlier.
- Wireless / Apply Settings Screen (4)
- Save settings to file. Follow the prompts to save the file to your preferred location.
- Apply settings on the printer

Figure 8 Wireless Settings Screens



Bluetooth

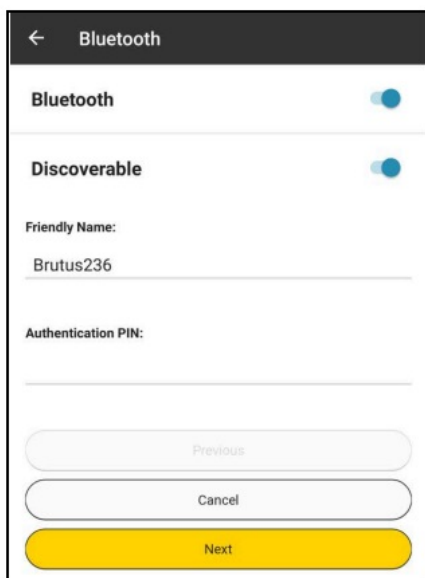
Bluetooth is a method where devices such as cell phones, computers, and printers can be easily interconnected using a short-range wireless connection. The transceiver operates on a frequency band of 2.45 GHz that is available globally (with some variation of bandwidth in different countries).

Within the Bluetooth Settings menus, you may change, save, and apply the following elements:

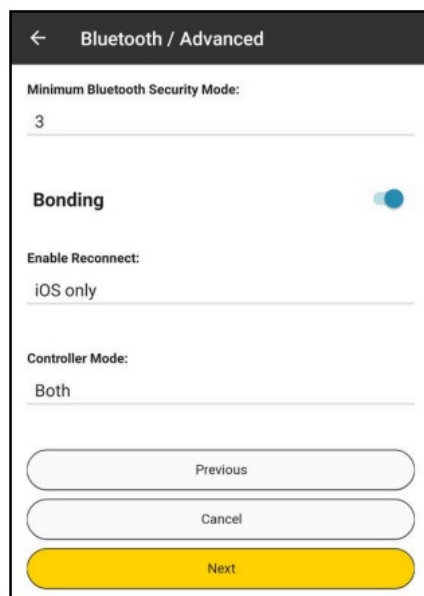
- Bluetooth Menu (1)
- Enable/Disable Bluetooth
- Discoverable
- Friendly Name
- Authentication PIN
- Bluetooth / Advanced Menu (2)
- Minimum Bluetooth Security Mode
- Bonding
- Enable Reconnect
- Controller Mode
- Bluetooth / Apply Settings Screen (3)
- Save settings to file. Follow the prompts to save the file to your preferred location.
- Apply Settings

Figure 9 Bluetooth Settings Screens

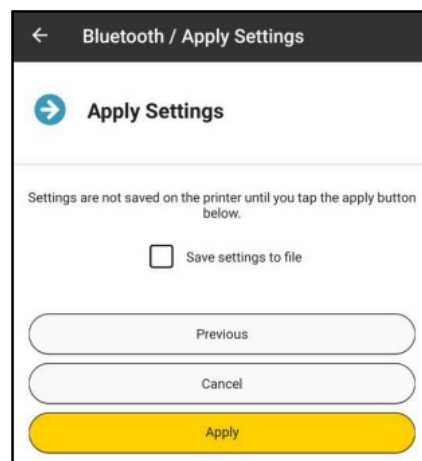
(1) Bluetooth



(2) Bluetooth / Advanced



(3) Apply Settings Screen



Unpair a Printer

If you must unpair a Bluetooth-connected printer (for example, for troubleshooting purposes), do so using the Settings menu, not inside the Zebra Printer Setup Utility application. If you prefer to deselect a printer, see Deselect a Printer on page 21.

To unpair a Bluetooth-connected printer:

1. On your device, go to the Settings menu.
2. Select Bluetooth.
A list of paired devices will appear.
3. Tap on the Settings icon beside the printer to be unpaired.
4. Tap on Unpair.

A new scan discovers and shows the available devices. You may pair with a printer on this screen, initiate a new scan, or exit the menu.

Printer Ready State

The ready state of the printers are checked at specific times. A pop-up box displays a warning if any of the printers are offline or not ready to print. Ready states are checked:

- Upon start-up of the application
- When the application gets focus back
- At the end of the discovery process
- When a printer is selected

Error on Connecting


Certain printer/device combinations may experience a delay when an error dialog appears or when trying to reconnect. Allow up to 75 seconds for the process to complete.



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Documents / Resources

| | |
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