# **ZDownloader**



**User Guide** 

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# Introduction

ZDownloader simplifies updating Zebra Printer firmware and managing licensed content provided by Zebra Technologies.

This application supports Zebra printers connected by serial, parallel, USB, and IP Ethernet networks.

ZDownloader is supported on the following operating systems:

- 32-bit Windows 10
- 32-bit Windows 11
- 64-bit Windows 10
- 64-bit Windows 11

Figure 1 ZDownloader Application



# Adding a Printer

You can add printers to Zdownloader automatically or manually depending on your configuration.

# **Auto-Detecting Printers**

Zdownloader detects and configures USB and IP-Ethernet printers automatically.

Your printer must connect via a USB or IP-Ethernet interface.

Begin auto-detecting printers by either:

- Clicking on the toolbar.
- Selecting Printer > Auto-Detect.

The Auto-Detect dialogue box appears.



The detected printers are added to the printer list.



**NOTE:** The application broadcasts a UDP packet onto the network to detect Ethernet-connected printers. The discovery process uses UDP port number 4201. Some networks filter out UDP packets. This means it may be impossible to detect all printers on your network. See your network administrator for more information. If you cannot Auto-Detect your network printers, refer to Manually Adding Printers.

## **Manually Adding Printers**

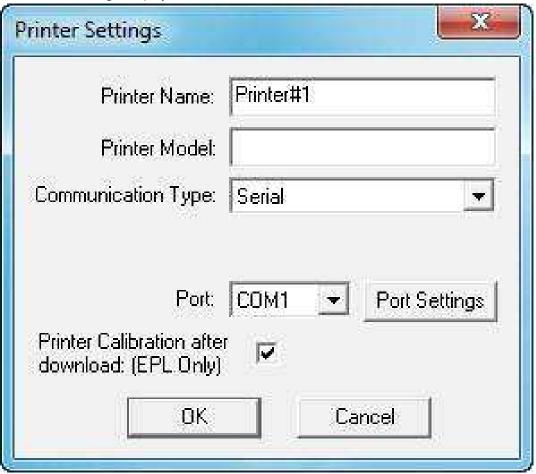
Zdownloader allows you to add printers with a variety of communication types.

### **Adding a Serial Printer**

You can manually add a Serial Printer.

- 1. Click on the toolbar.
- 2. Click Printer > Add.

The **Printer Settings** displays.



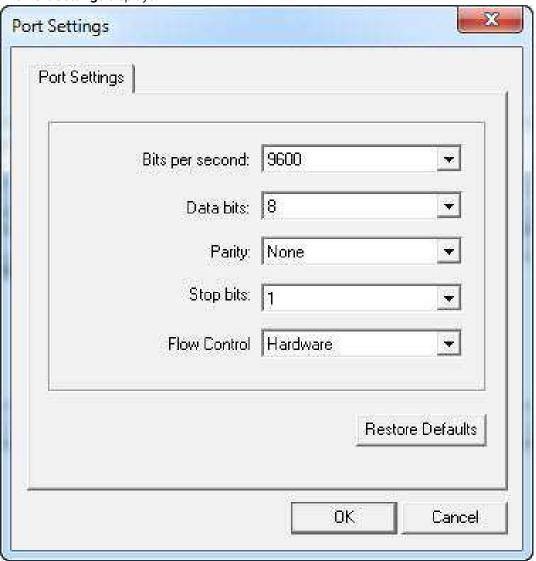
- **3.** In the **Printer Name** text box, enter a name for the printer.
- **4.** In the **Printer Model** text box, enter the model number of the printer.
- 5. In the Communication Type drop-down, select Serial.
- **6.** In the **Port** drop-down, select the serial port to which the printer is connected.



**NOTE:** You can view the printer's serial port settings by performing an AutoSense on the printer and reading the Dump Mode status labels' serial configuration data. Refer to the printer's <u>User Guide</u> for details. Example: 9600, N, 8, 1 which matches the Port Settings shown in step 7.

#### 7. Click Port Settings.

The **Port Settings** displays.



- **8.** Enter the configuration data of the serial port.
- 9. Click OK.
- 10. In Printer Settings, click OK.

The serial printer is added to the printer list.

#### See Also

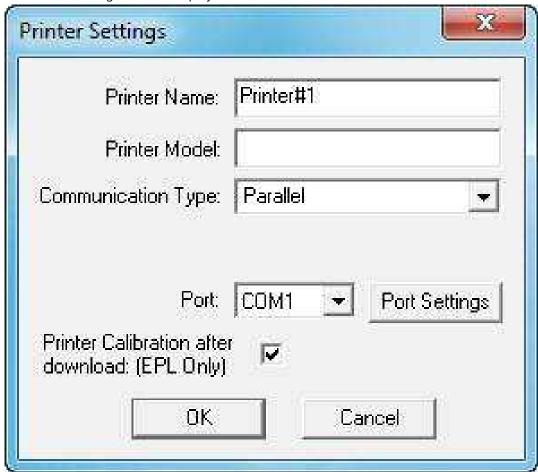
Adding a Network Printer Adding a USB Printer Adding a Parallel Printer

### **Adding a Parallel Printer**

You can manually add a parallel printer.

- 1. Click on the toolbar.
- 2. Choose: Printer > Add.

The Printer Settings window displays.



- **3.** In the **Printer Name** text box, enter a name for the printer.
- **4.** In the **Printer Model** text box, enter the model number of the printer.
- **5.** From the **Communication Type** drop-down menu, select Parallel.
- 6. From the Port drop-down menu, select the port to which the printer is connected.
- 7. Click OK.

The printer is displayed in the Printer List.

#### See Also

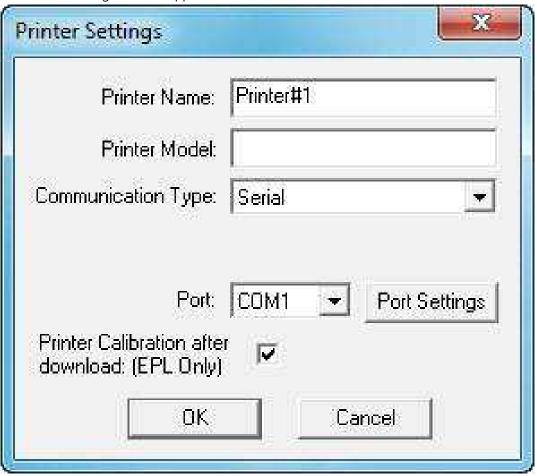
Adding a Network Printer Adding a USB Printer Adding a Serial Printer

### **Adding a Network Printer**

You can manually add an Ethernet printer.

- 1. Click on the toolbar.
- 2. Select Printer > Add.

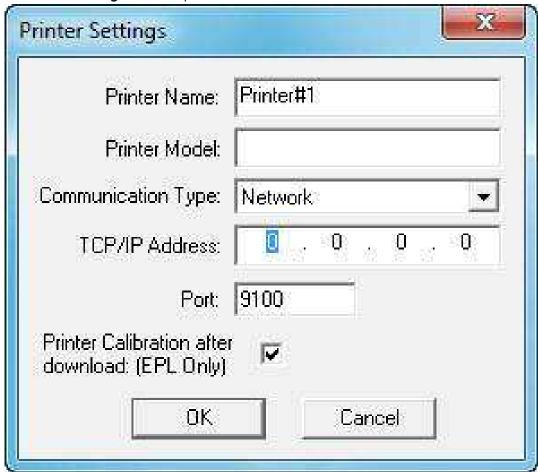
The Printer Settings window appears.



- **3.** In the **Printer Name** text box, enter a name for the printer.
- **4.** In the **Printer Model** text box, enter the model number of the printer.

**5.** From the **Communication Type** drop-down menu, select Network.

The **Printer Settings** window updates.



- **6.** In the **TCP/IP Address** text box, enter the TCP/IP address of the printer.
- 7. In the **Port** text box, enter the port number of the printer.



**NOTE:** Press the printer's networking configuration status button, located next to the Ethernet interface on the printer or the PrintServer Ethernet adapter, to print a status label.

8. Click OK.

The printer is added to the printer list.

#### See Also

Adding a USB Printer Adding a Serial Printer Adding a Parallel Printer

## Adding a USB Printer

You can add a printer connected via USB by using Auto-Detect.

• USB printers can only be added by using Auto-Detect.

- All printers connected via USB have the list designation of USB.
- The program can support as many USB printers as the computer can.
- Computers can typically support up to 255 USB devices.

#### See Also

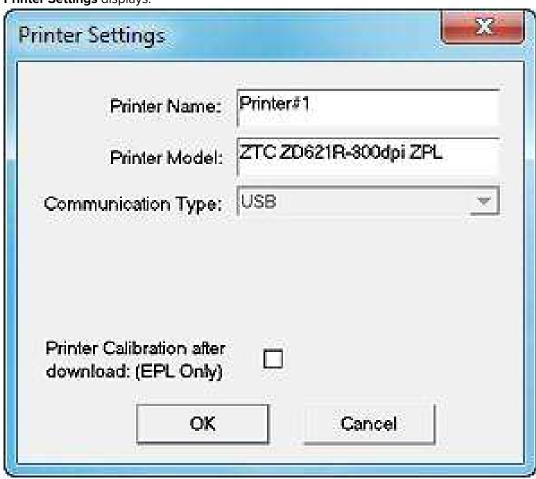
Adding a Network Printer Adding a Serial Printer Adding a Parallel Printer

### **Modifying Printers in the Printer List**

Zdownloader allows you to modify printers in the Printer List.

- **1.** Select a printer from the list.
- 2. Open Printer Settings in one of three ways:
  - · Click on the toolbar.
  - Select Printer > Modify.
  - Right-click on the printer in the list and select Modify Printer.

Printer Settings displays.



- 3. Configure the printer settings. Refer to Adding a Printer
- **4.** Select **Print Configuration Label after Download (EPL Only)** checkbox to cause the printer to calibrate the sensor and print a configuration label. This ensures the media sensor is calibrated correctly, as a firmware download will overwrite existing values.
- 5. Click OK.

The printer settings are updated.

#### **Deleting Printers from the Printer List**

Zdownloader is capable of removing previously added printers.

- 1. Select the printer to be deleted from the Printer List.
- **2.** Delete a printer from the Printer List with one of the following methods:
  - Click on the toolbar.
  - Select Printer > Delete.
  - Right-click on the printer to be deleted and select Delete Printer(s).

The printer is removed from the Printer List.

#### **Printing Test Pages**

Zdownloader provides a variety of ways to print a test page.

- Click for EPL test page.
- Click for ZPL test page.
- Select the desired printer and press the **Print Test Page** toolbar button.
- Select Printer > Print EPL Test Page.
- Select Printer > Print ZPL Test Page.
- Right-click on the selected printers and select Print EPL Test Page.
- Right-click on the selected printers and select Print ZPL Test Page.

# Saving Printer Settings

Zdownloader is capable of saving settings to a file.

- 1. Select File > Save Printer Settings.
- **2.** Select a location for the Printer Settings file.
- **3.** Enter a name for the settings file.



**NOTE:** Printer settings files are stored as .zps.

4. Select Save.

The printer settings are saved to a file.

### **Restoring Printer Settings from a File**

Zdownloader is capable of restoring printer settings from a file.



**NOTE:** Restoring printer settings from a file erases printers currently on the Printer List.

- 1. Select File > Load Printer Settings File.
- 2. Locate the .zps file.
- 3. Select Open.

The saved printers display in the Printer List.

# **Updating the Printer Firmware**

Zdownloader can assign and download firmware to each printer.

**1.** Select the printer from the Printer List.



**TIP:** Hold **SHIFT** down to select a range of printers. Hold **CTRL** to select individual printers.

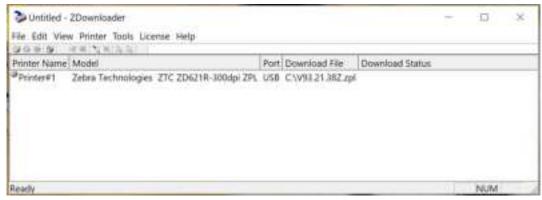
#### Saving Printer Settings

- 2. Choose one:
  - Click on the toolbar.
  - Select File > Select File.
  - Right-click the selected printer and select Select File.



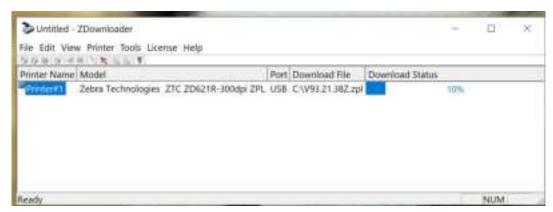
**NOTE:** Printers that are present in the Printer List but do not have a firmware file are ignored when downloading starts.

- 3. Navigate to the file to be downloaded.
- 4. Select Open.



The file is shown under the **Download File** column.

- **5.** Download the printer firmware.
  - To download firmware to all printers, click on the toolbar.
  - To download firmware to specific printers, select the printer and select Printer > Download to Selected.



The progress of each printer displays in the **Download Status** column.

The toolbar icon and the **Printer** > **Cancel Download** menu option is now available if the download must be canceled.

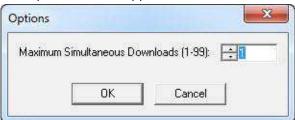
# **Accelerating Printer Firmware Update**

Zdownloader is capable of updating several printers simultaneously.

Zdownloader downloads one update at a time by default; you can increase this number in order to reduce overall update time.

1. Select Tools > Options.

The Options window appears.



2. Increase or decrease the Maximum Simultaneous Downloads counter.



**NOTE:** Some computers may slow down as the number of simultaneous downloads increases.

Zdownloader is now capable of downloading several printer updates simultaneously.

Licensed Content files are used in specific circumstances.

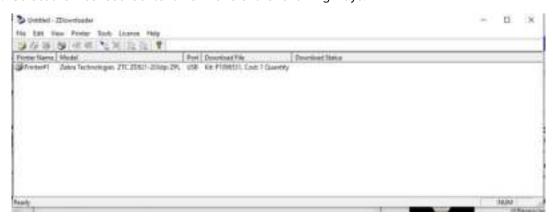
- Zebra Technologies provides Licensed Content files for content that may require tracking or regulation, such as special firmware or licensed fonts.
- · Licensed Content files use the file extension .dss.
- A Licenced Content file may be downloaded from <u>Zebra.com/support</u> or received from your Zebra Account Manager.

### **Downloading Licensed Content Files to Printers**

Licensed Content files are downloaded to printers using the same method as firmware.

You must configure the license associated with the Licensed Content files prior to downloading to the printer. Follow the steps for Configuring a Product License on page 20 to configure Licensed Content Files.

- **1.** Configure the printers. Refer to Auto-Detecting Printers.
- 2. Select the Licensed Content file in one of the following ways:



- Select on the toolbar.
- Select File > Select File.
- 3. Right-click the Licensed Content file.



**NOTE:** The Licensed Content file has a .DSS extension and may be downloaded from <u>Zebra.com/support</u> or received from your Zebra Account Manager.

#### 4. Select Download to Selected.





**NOTE:** If sending firmware, you may have to wait another minute for the printer to fully load after sending the file. Wait until the printer's LED light remains green for more than 5 seconds or the primary menu is shown on the screen before using it.

The Licensed Content file is downloaded to the printer.

Repeat this process to utilize additional license uses.

### License Manager

Zdownloader contains a utility for managing installed licenses.

The **License Manager** simplifies updating Zebra Printer firmware and managing licensed content provided by Zebra Technologies. With the License Manager, you can:

- Check the status of a license using the Dashboard screen.
- · Configure a license via the internet using the Configure screen.
- Clear a license via the internet using the Configure screen.
- · Configure a proxy server using the Settings screen.
- · Access License Manager version details from the info screen.

## Opening the License Manager

Access the License Manager from the Zdownloader interface.

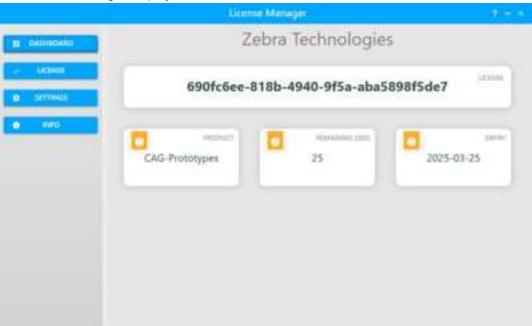


**NOTE:** Your computer must have access to the Internet to configure or clear licenses. If you connect to the Internet through a proxy server, configure the proxy server via the Settings screen before configuring or clearing licenses. Refer to Configuring the Proxy Settings on page 24.

1. Launch Zdownloader.

#### 2. Select License > Launch License Manager.

The License Manager displays.



#### **License Status**

The Dashboard screen displays the license status of active licenses. If you do not have any active licenses, the dashboard will indicate N/A. For the active license code, depending on the mode, the dashboard provides the following information:

- Product type
- Remaining uses
- · Expiry date



# **Configuring a Product License**

Licenses must be entered and configured in License Manager.



**NOTE:** Your computer must have access to the Internet to configure or clear licenses. If you connect to the Internet through a proxy server, configure the proxy server via the Settings screen before configuring or clearing licenses. Refer to Configuring the Proxy Settings on page 24.



**NOTE:** A license must be obtained from the Zebra Custom Solutions (CAG) team.

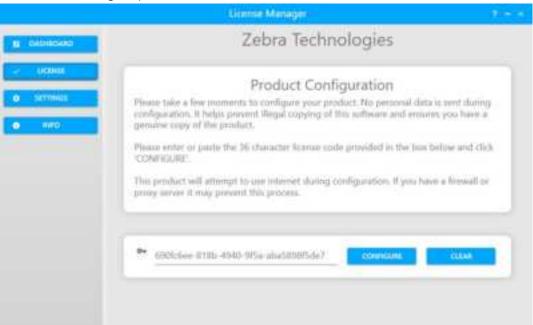
1. Select License > Launch License Manager.

The License Manager displays.



#### 2. Click License.

The License Manager updates.



- 3. In the field, enter the license number.
- 4. Click Configure.

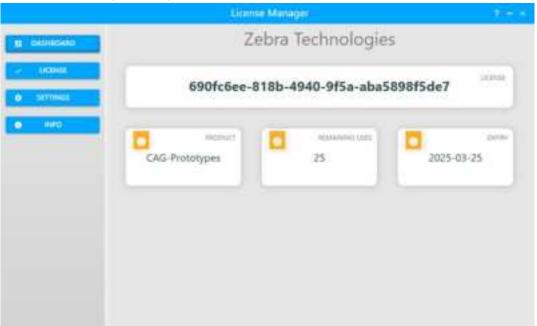
A message displays indicating the configuration was successful.

# **Clearing a License**

Clearing a license allows the license to be moved to a different computer.

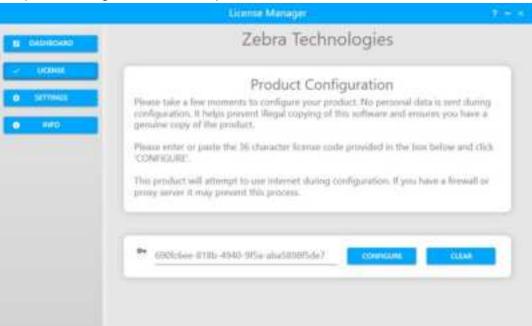
- The computer must be connected to the internet.
- If connecting to the internet through a proxy server, configure the proxy server before configuring the license code. Refer to Configuring the Proxy Settings on page 24.
- 1. Select License > Launch License Manager.

The License Manager displays.



#### 2. Click License

The product configuration interface opens.



- 3. Enter the License in the field.
- 4. Click Clear.

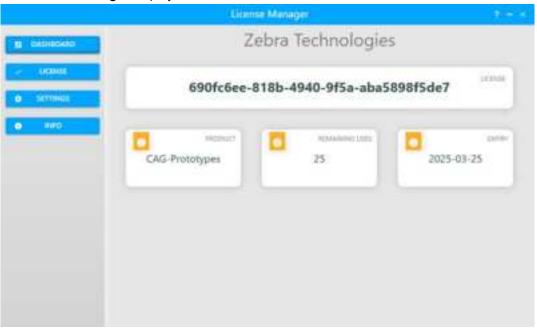
The license is deactivated and may be used on a different computer.

## **Configuring the Proxy Settings**

The License Manager allows configuration of proxy server settings.

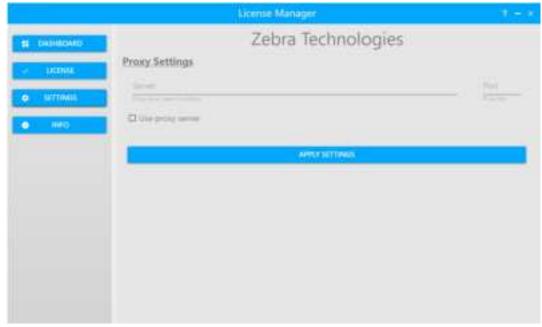
1. Select License > Launch License Manager.

The License Manager displays.



#### 2. Click Settings.

The Proxy Settings screen displays.



- 3. In the Server text box, enter the server address.
- **4.** In the **Port** text box, enter the port number.

- **5.** Enable **Use proxy server** checkbox.
- 6. Click APPLY SETTINGS.

