ZebraDesigner for XML Release Notes

Version 2.5.0.9427

Table of Contents

Welcome

ZebraDesigner for XML enables the user to create and download label designs to printers for later recall and printing via XML data streams.

ZebraDesigner for XML offers both the label design features and printer configuration tools that enable printing. The easy to use variable wizard makes it simple to link variable information to text, barcode and RFID tags on the label. Graphics and fonts can be easily downloaded to the printer to accelerate throughput while allowing for label design flexibility.

Once label designs are complete, the label template can be distributed to one or many printers with a single click. As new labeling needs emerge, it's "click-simple" to create or edit existing designs. Designing a label has never been easier!

Back to top

System Requirements

- Pentium based computer with at least 128 MB of RAM.
- 32-bit or 64-bit Microsoft Windows Vista®, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2 and Windows Server 2016 operating systems.
- 130 MB of available hard disk space.
- VGA monitor or better.
- ZDesigner Printer Drivers.
- Terminal Services, Remote Desktop and Virtual Machines are not supported.

Back to top

Installation

Printer Drivers
ZebraDesigner for XML requires a ZDesigner Windows driver to communicate with your

printer. The program will assist you with installing a ZDesigner driver when you install the software. After install, a shortcut to the ZDesigner driver installer will also be placed in your Start menu under "Start>Programs>Zebra Technologies>ZebraDesigner for XML 2>Printer install". Use it to install additional drivers as needed.

Updates to the ZDesigner drivers are distributed within new versions of the software. New versions to the ZebraDesigner products will be available on our web site: https://www.zebra.com

Licensing

Licensing in ZebraDesigner for XML 2 is controlled by the use of a license number. The number can be entered once the software has been installed. If the package is installed in demo mode, a license number can be entered via the License Activation Wizard.

DEMO limitations

The word Demo will be printed on the label.
Graphics will be printed with the word "demo" on them.

Folders

The application will be installed into the \Program Files\Zebra Technologies\ZebraDesigner for XML 2 by default. This location can be changed during installation. Sub-folders that are created include:

\BIN - program files.
\Drivers - driver related files.
\Samples - Sample labels, sample fonts and sample graphics.
\Templates - Exported formats.

Additionally, a sub-folder in the current users \My Documents folder called \My Labels will be created and used as the default folder for label information.
Sub-folders created under \My Documents\My Labels include:

\Forms - not used by Zebra Designer.
\Graphics - default for any graphic images used in the labels.
\Labels - default for any new labels.
\Stocks - default for information about any new stock labels that are defined.

Back to top

Supported Printers

The following Zebra printers are supported in this version:

105SL 203DPI
105SL 300DPI
105SLPlus-203dpi ZPL
105SLPlus-300dpi ZPL
110PAX4 203DPI
110PAX4 300DPI
110Xi4 203 dpi
110Xi4 300 dpi
110Xi4 600 dpi
110XiIII Plus 200DPI
110XiIII Plus 300DPI
110XiIII Plus 600DPI
140Xi4 203 dpi
140XiIII Plus
170PAX4 203DPI

170PAX4 203DPI

170PAX4 300DPI

170Xi4 203 dpi

170Xi4 300 dpi

170XiIII Plus

170XiIII Plus 200DPI

220Xi4 203 dpi

220Xi4 300 dpi

220XiIII Plus

220XiIII Plus 300DPI

GC420d

GC420t

GK420d

GK420e

GK420t

GK420t Plus (ZPL)

GK888d

GK888e

GK888t

GT800 (ZPL)

GT800 Plus (ZPL)

GT800-300dpi ZPL

GX420d

GX420s

GX420t

GX430t

HC100 300 dpi

iMZ220 (ZPL)

iMZ320 (ZPL)

KR403

LP 2824 Plus (ZPL)

LP 2844-Z

Mobile Printer

P4T (ZPL)

QLn220 (ZPL)

QLn320 (ZPL)

QLn420 (ZPL)

R110PAX4 LH-203DPI

R110PAX4 LH-300DPI

R110PAX4 RH-203DPI

R110PAX4 RH-300DPI

R110Xi 200DPI

R110Xi 300DPI

R110Xi HF 200DPI

R110Xi HF 300DPI

R110Xi4 203 dpi

R110Xi4 300 dpi

R110Xi4 600 dpi

R170Xi 200DPI

R170Xi 300DPI

R2844-Z

RP4T (ZPL)

RZ400 200 dpi

RZ400 300 dpi

RZ600 200 dpi

RZ600 300 dpi

S4M-203dpi ZPL

S4M-300dpi ZPL

TLP 2824 Plus (ZPL)

TLP 2844-Z

TLP 2844-Z
TLP 3844-Z
ZD220-203dpi ZPL
ZD230-203dpi ZPL
ZD410-203dpi ZPL
ZD410-300dpi ZPL
ZD420-203dpi ZPL
ZD420-300dpi ZPL
ZD500-203dpi ZPL
ZD500-300dpi ZPL
ZD500R-203dpi ZPL
ZD500R-300dpi ZPL
ZD510-300dpi ZPL
ZD511-300dpi ZPL
ZD620-203dpi ZPL
ZD620-300dpi ZPL
ZD888-203dpi ZPL
ZE500-4 LH-203dpi ZPL
ZE500-4 LH-300dpi ZPL
ZE500-4 RH-203dpi ZPL
ZE500-4 RH-300dpi ZPL
ZE500-6 LH-203dpi ZPL
ZE500-6 LH-300dpi ZPL
ZE500-6 RH-203dpi ZPL
ZE500-6 RH-300dpi ZPL
ZE500R-4 LH-203dpi ZPL
ZE500R-4 LH-300dpi ZPL
ZE500R-4 RH-203dpi ZPL
ZE500R-4 RH-300dpi ZPL
ZM400 200 dpi (ZPL)
ZM400 300 dpi (ZPL)
ZM400 600 dpi (ZPL)
ZM600 200 dpi (ZPL)
ZM600 300 dpi (ZPL)
ZQ310 (ZPL)
ZQ320 (ZPL)
ZQ510 (ZPL)
ZQ520 (ZPL)
ZQ610 (ZPL)
ZQ620 (ZPL)
ZQ630 (ZPL)
ZQ630R (ZPL)
ZR318 (ZPL)
ZR328 (ZPL)
ZR338 (ZPL)
ZR628 (ZPL)
ZR638 (ZPL)
ZR658 (ZPL)
ZR668 (ZPL)
ZT210-200dpi ZPL
ZT210-300dpi ZPL
ZT220-200dpi ZPL
ZT220-300dpi ZPL
ZT230-200dpi ZPL
ZT230-300dpi ZPL
ZT410-203dpi ZPL
ZT410-300dpi ZPL
ZT410-600dpi ZPL
ZT410R-203dpi ZPL

ZT410R-300dpi ZPL
ZT410R-600dpi ZPL
ZT420-203dpi ZPL
ZT420-300dpi ZPL
ZT420R-203dpi ZPL
ZT420R-300dpi ZPL
ZT510-203dpi ZPL
ZT510-300dpi ZPL
ZT610-203dpi ZPL
ZT610-300dpi ZPL
ZT610-600dpi ZPL
ZT610R-203dpi ZPL
ZT610R-300dpi ZPL
ZT610R-600dpi ZPL
ZT620-203dpi ZPL
ZT620-300dpi ZPL
ZT620R-203dpi ZPL
ZT620R-300dpi ZPL

Tips & Advice

1. When entering values for RSS composite bar codes, you need to provide the value for the linear and composite (2D) parts at the same time. Use the following syntax for entering values for RSS composite bar codes. The pipe character (|) is used to distinguish between the components.

   Syntax: <linear part>|<composite part>
   Example: 12345|description

2. By double clicking on the name of the printer in the status bar at the bottom of the design screen, the user can quickly gain access to the printer settings dialogs.

3. Design your label using internal fonts, bar codes and counters to improve throughput.

4. Objects can be arranged with respect to each other by selecting the objects and clicking the desired alignment button.

5. Objects can be arranged with respect to the label by holding the CTRL button when the user presses the alignment button.

6. When defining a Multi-line Variable field, the "Maximum number of characters" setting refers to the maximum number of characters per line. It does not refer to the total maximum number of characters for the variable field. Entering the maximum number of characters required my cause the field to be larger that will fit on the label. Enter a small number for "maximum number of characters" and resize the field on screen by holding the shift key and dragging the box. This will resize the field without resizing the text to allow more characters to be printed in the field.

7. The Status Monitor regularly checks the printer for current status information. When the driver is being used over a network connection, this can have the effect of consuming connection ports that would otherwise be used for accepting print jobs at the printer. If the Status Monitor is in use and you are experiencing a delay in printing, try right clicking over the Status Monitor in the system tray (by the clock) and closing the Status Monitor.

8. In order to create both the .zpl and .xml file templates during the export process it's necessary to select 'Yes' for the 'Send Test XML File' option.

Known Issues

1. When using time or date fields with the Shift-Drag feature, please note that the prefix or suffix function should not be used, as the variable field length and justification can cause the time or date field to over write the prefix or suffix information.

2. If the memory slot to be used is not defined when using the Font Downloader, the memory location entered into the format could be incorrect. Please make sure that the memory slot you define in the Font Downloader is the same one you are going to store the format to.

3. It is currently not possible to encode the date and time in a RFID tag.

4. To change the language in the Font Downloader, it must be run from the Start menu.

5. After first downloading a format, some XML enabled printers may intermittently not print one of the variables on the label. Re-export the format to the printer to resolve this issue.

6. Version 1 of the ZebraDesigner Label Design Products cannot be used with the Version 2 and above ZebraDesigner printer drivers. If you are using a Version 1 ZebraDesigner label design product, use the drivers that came with that version.

7. Version 2 of the ZebraDesigner Label Design Products cannot be used with the Version 1 ZebraDesigner printer drivers. If you are using a Version 2 ZebraDesigner label design product, use the drivers that came with that version.

8. The 64 bit printer drivers must be used when using the Label Design software on a 64 bit machine. The drivers come with the software.

9. In Windows 7 and Windows 2008 R2, if the user right clicks over a text field and selects "Properties" and then clicks "Select" the fonts that are native on the printer will not be displayed as selectable. They are displayed and selectable if the user clicks on a text field and then uses the drop-down menu in the Text Toolbar within the Label Design Environment.

10. If Permissions on the computer do not allow the driver to write in the Registry then the Command Fonts and/or Stocks Tabs in the driver dialogs will have buttons disabled. To change Command Fonts and Stocks, open the Printers folder the in Control Panel, select the printer and then open its "Printing Preferences". Then the user will be able to modify Command Fonts and Stocks. These properties are set per device and not per document.

11. In the label export process, it's possible to enter a format name that includes a space. However, printers can only use 8.3 format file names without spaces. This means exported file names with spaces shall be truncated when stored on the printer. It's recommended to use an 8.3 format file name during the export process.

12. Installing this version of ZebraDesigner on the same computer that has an installation of ZDownloader v3.00 or earlier may cause an issue where licenses cannot be activated in ZDownloader. This is due to a later version of a Windows service component installed by ZebraDesigner. It's recommended to upgrade the version of ZDownloader or use v3.00 on a different computer.

13. ZebraDesigner versions after 2.5.0.9362 require Microsoft Visual C++ 2008 x86 runtime components which ZebraDesigner will install. If for any reason the installation of the runtime files is unsuccusessful, or they are not present on the computer, it may result in the message *"Method zPostProcessorInit is not available in the post processor!"* when starting ZebraDesigner for XML. If this occurs, it's suggested the runtime files be installed from here.

Back to top

Change Log

Change Log

Release Date	Version	Changes
05 May 2006	1.0.4	• Initial release of the new platform.
08 Jan 2010	2.2.2.2730	• Discontinued Support for Windows 9X, Me and NT 4.0.
		• New Installer.
		• New Status Monitor included.
		• Ability to Install and Uninstall printers from within ZebraDesigner.
		• Simplified Rotation of Label Design screen (conveniently rotates the on-screen view without rotating the printed output).
		• Supported added for Guidelines – drag a guideline from the ruler for field alignment.
		• Font and Graphic Downloader (previously only Font Downloader was available).
		• Support for Norwegian.
		• Use of offset feature for ZPL Real Time Clock now supported.
		• Support for RFID Electronic Article Surveillance (EAS).
		• Support for updated EPC Global Tag Data Standard (TDS).
		• Support for RFID Tag Locking / Unlocking.
		• No Limit for the Number of Installed Printer Drivers.
		• Copy Button in the Error Dialog Box (to Copy Error Messages to Clipboard).
		• Support for Quick Creation of a New Empty Label – Ctrl-Shift N will create a blank label without running the Label Creation Wizard.
		• Updated Support for Maxicode Bar Code.
		• Improved WYSIWYG when Moving/Resizing Objects.
		• Bar Code Update: Custom Ratios and Space Correction.
		• Multiple Label Selection is Available in the File Open Dialog Box.
		• Support for Windows Vista Restart Manager.
		• Better Support for Handling of Missing Graphic Files.
		• Graphics can be stored in the .lbl file.
		• Decimal Point Font Size for Scalable fonts.
		• Support for Unicode Text files.
		• Support for 64-bit printer drivers.
		• Updated RFID tag support (Gen 2, Gen 1).

Date	Version	Notes
18 Apr 2012	2.2.3.4266	• Improvements to license system. • Added ability to de-activate license during un-installation. • Corrected an issue where multi-line variables did not print correctly. • Corrected an issue where variable names used in RFID tag fields were not being exported. • Corrected an issue where some fields would not be exported when using a label format created in ZebraDesigner for XML V1. • Corrected an issue where a ^FS was missing after the ^RT command. • Added the ability to control whether or not fonts are included in the exported files. After a font has been downloaded to the printer using the Font & Graphic downloader, it's not necessary for the font to be included in the export file. An entry in the setup.ini file is used to control this. The default setting in the setup.ini file is **RedownloadFont=N** which excludes the font from the export file. To include the font in the export file, change the setting to **RedownloadFont=Y**.

25 Oct 2012	2.2.3.4271	• Updates to be Windows 8 compatible.
		• Executables are now signed with Zebra Technologies digital signature.
		• Corrected an issue when using variable data in the RFID EPC fields. The correct number of bytes are now exported in the ZPL.
		• Added support for the following printers:
		  ○ 105SLPlus
		  ○ QLn420
		  ○ iMZ220
		  ○ iMZ320

07 Feb 2014	2.5.0.9324	• Optimized the order of ZPL commands to improve throughput when using RFID. • Added Turkish language option. • Corrected an issue where the test print did not accurately represent the exported label. • Corrected an issue where the ^WV command was not generated when switching between EPC Class 0 (96Bit) and Impinj (Class 0+) tag settings. • Updated QR Code options to better support Asian character encoding. • Corrected an issue when using the Royal Mail Barcode option. The correct data length can now be entered.

be entered.

- Improvements to licensing system.
- Added supported for Adobe Photoshop (PSD) graphic files.
- UPC E1 barcode check digit is now calculated correctly.
- Corrected data input for Pharmacode which now is limited to 6 numeric characters.
- Added 36x36 aspect ratio option for Datamatrix.
- EAN-14 is now generated with application identifier (01).
- Corrected an issue where special character <CR> was not displayed in the barcode dialog when the dialog was closed and re-opened.
- Corrected an issue where Shift + Up / Down key did not resize the text object.
- Added support for the following printer models:
    - ZD500R
    - ZD500
    - ZT410
    - ZT410R
    - ZT420
    - ZT420R
- Removed support for the following printer models that have past their Service & Support discontinuation date:
    - 110 PAX3
    - 170 PAX3
    - 140 XiIII
    - 170 XiIII
    - 220 XiIII
    - 2746e
    - 90 XiIII
    - 90 XiIII Plus
    - 96 XiIII
    - 96 XiIII Plus
    - 96 XiIII Plus
    - DA402
    - LP2824-Z
    - R110 XiIII Plus
    - R402
    - R4Mplus
    - S400
    - S600
    - TA402
    - TLP2824-Z
    - Z4M

		o Z4Mplus
		o Z6M
		o Z6Mplus
26 Mar 2014	2.5.0.9325	• Corrected an issue where selecting a language other than English during installation generated an error.
01 Jun 2015	2.5.0.9352	• Removed the 'Read and Store RFID Tag Data' button as the product does not support that functionality.
		• Added an option to show or hide field names.
		• Improvements to licensing system.
		• Corrected an issue where labels containing a GS1 QR code could not be opened.
		• Corrected an issue during uninstallation where the license de-activation would fail if dahses were used when entering the license number.
		• Corrected an issue where the XML_QUANTITY parameter in the output did not change to the value set in the export wizard.
		• Microsoft has ended support for Windows XP (http://windows.microsoft.com/en-us/windows/end-support-help). This release aligns to that decision, with support for Windows XP having been removed.
		• There is nothing implemented to prevent this driver from running on Windows XP. However, this and future versions are not tested on Windows XP.
		• Added support for the following printer models:
		o ZD410
		o ZD420
		o ZR338
		o ZR628
		o ZR638
		o ZT410R 600dpi
08 Jul 2015	2.5.0.9362	• Corrected an issue where the installation would not upgrade the licensing service when upgrading from a version of ZebraDesigner 2.2.3 or older. This resulted in the "Get service update from publisher" status message in the License Manger.
01 Oct 2015	2.5.0.9384	• This release is supported on Windows 10.
		• The ^RL command is now used to lock RFID tags on printers supporting the command. This requires use of the driver version included in the installation.

		- Corrected an issue where menu items were displayed in English when the language was set to Portuguese. - The option to use RFID EPC encoding has been disabled. The format recall printing method used by XML requires using field numbers (^FN) but field numbers do not support accessing specific EPC bit fields. - Microsoft has ended extended support for Windows Server 2003. This release aligns to that decision, with support for Windows Server 2003 having been removed. - There is nothing implemented to prevent this release from running on Windows Server 2003. However, this and future versions are not tested on Windows Server 2003.
04 Apr 2016	2.5.0.9385	- Corrected an issue where on some computers that have the font size set to 125%, some elements were positioned incorrectly and unaccessible on the dialogs. - Corrected the Printer Tools menu when the language is set to Portuguese (Brazilian). - Support for Gen2 v2 RFID tags is available when using ZDesigner driver v5.1.07.6289 and later.
02 Nov 2016	2.5.0.9393	- Updated the EULA in the distribution. - Removed a url reference in the help. - Added support for the following printer models: - ZQ310 - ZQ320 - ZT510 - ZT610 - ZT610R - ZT620 - ZT620R - ZR318 - ZR328
25 Oct 2017	2.5.0.9419	- Corrected an issue where the ZPL output was incorrect when the combination of label rows & columns in the label setup was greater than 20. - Corrected an issue where the Printer Tools menu was empty when a shared printer was used. - Added support for the following printer models: - ZD620 - GK420E - GK888E

08 Nov 2017	2.5.0.9420	• Updated to include Windows driver that has the GK420E/GK888E PnP strings changed to GK420e/GK888e.
12 Jan 2018	2.5.0.9424	• Added support for the following printer models: ○ GK420t Plus ○ ZD510 ○ ZQ610 ○ ZQ620 ○ ZR658 ○ ZR668
22 Aug 2018	2.5.0.9425	• Added support for the following printer models: ○ GT800 Plus ○ ZD511 ○ ZQ630 ○ ZQ630R
27 Sep 2018	2.5.0.9427	• Added support for the following printer models: ○ ZD220 ○ ZD230 ○ ZD888

Technical Support

Worldwide Technical Support is available through your Reseller, or at:
https://www.zebra.com/support

Zebra Technologies Corporation
Corporate & International Headquarters
3 Overlook Point
Lincolnshire, Illinois 60069 USA
Phone: +1 847 913 2259
Fax: +1 847 913 2578

Software Updates

ZebraDesigner for XML V2 can be updated and modified to take advantage of new developments. Updates will be available on our web site: https://www.zebra.com/zdxml