

PCLTool SDK V17.0 / PCLWorks V17.0 2/2/17 RELEASE NOTES

All the ways in which you can contact us for technical support are listed below in order of our preference:

<http://www.pagetech.com/support/supportform.php>
www.PCLHelp.com
LinkedIn Group: **PCL & PXL Support Blog**
info@pagetech.com

Commercial product users only
General Help/FAQ Blog
General Help/FAQ Blog
After, we establish a technical dialog

This release note covers all the enhancements (in **bold**), modifications and bug fixes to PCLTool SDK (SDK-specific items are in *purple italics*) and PCLWorks since V16.x.

If you need to install our product on a PC running Vista, Windows 7/8 or Windows Server 2008/2012 or newer platforms or if you are going to install on a 64-bit PC – you MUST install V11.6x or above.

Note: Any references to a 32-bit program name, path, etc. shall follow the following naming convention for the other three versions (.Net, 64-bit & 64-bit .Net), for examples:

<u>32-bit</u>	<u>32-bit .NET</u>	<u>64-bit</u>	<u>64-bit .NET</u>
ptc32.dll	ptc32net.dll	ptc64.dll	ptcnet64.dll
pclxform.exe	pclxformnet.exe	pclxform64.exe	pclxformnet64.exe

V17.0 - Enhancements and Bug Fixes

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GUI .exe's	Enhanced ability to make raster and vector PDF's text searchable.	
ImgCvt pgms	Enhanced ability to make raster and vector PDF's text searchable.	
PCLXForm	Added preference to force monochrome output	
PCLXForm-Linux	Fixed orphaned temp folders can now be re-used	BoatUS
PCLXForm-Linux	Now returns zero or error code on exit	BoatUS
PTC32.dll	Corrected coordinates in extracted text from rotated documents	
PTC32.dll	Fixed a buffer overflow bug possible when extracting large blocks of multi-byte text	
PTC32.dll	Fixed page length handling in Pcl2Img function when top region is clipped	
Testing	Tested and Verified Windows 10 OS	
UniMapBuilder	Added more detail to Help screen	
UTF8-Text.pdf	Troubleshooting steps to extract text from PCL referencing UTF-8 text.	



Doc2PDF.exe Added a new program to print .DOCX files using PCLMagic driver/Port Monitor and 2 PCLXForm Scripts to redirect print jobs, search them for text using a look-up table, inserts a cover page & text, then converts & splits them to into individually-named/indexed PDF files. This product requires collaboration with PageTech and is not included in the SDK.



Linux Release

We ported our PCLTool SDK to Red Hat Linux. HP chose the Linux version our SDK because we have the only product that can faithfully convert the complex PCL5e generated by the State of California's CalWin system for its multi-lingual citizenry. This product is capable of supporting all the characters included in the Unicode specification for Chinese, Japanese, Korean, Cambodian, Thai, Farsi and others.

The product options mirror those of our Windows versions with even lower pricing. Licensee's will also receive a copy of the corresponding Windows version of our PCLTool SDK for PCL viewing, analysis, development and testing.

PCL2PDF<64>	Added a command line-driven PCL2PDF for Linux program (Linux Version – Option III)	HP
PCLXForm<64>	Ported the Windows PCLXForm to Linux	BoatUS
PTCVFS<64>	New main transformation program that references the PTRResource.bin file	
PTResource.bin	Font, symbol and other resources referenced during the transformation process.	
LPDSpooler	IP Port Monitor/Spooler to capture print streams directed to IP printers to redirect as direct/indirect input to PCLXForm	

Having been absent from the Linux environment until now, we have decided to provide very aggressive pricing and a simple licensing model. We do not price based on the number of users. All prices stated below are for units that will convert unlimited pages from unlimited users. Let us know if you need page limited versions or have other requirements and we will customize the product and pricing.

Option	Description (all versions quoted are with unlimited pages/unlimited users)	Windows	Linux	Difference
I	Custom Programming Option	\$3,995	\$2,995	\$1,000
II	There is no equivalent Linux version for PCLView and/or PCLPrint.			
III	PCL to Raster/Vector PDF and XPS Only (PCL2PDF)	\$3,495	\$1,995	\$2,500
IV	PCL to any non-PDF Raster format Conversion (PCLXForm)	\$3,495	\$1,895	\$2,600
V	PCL to any Raster or Vector Conversion via Script Program (PCLXForm)	\$3,695	\$2,495	\$1,200
VI	PCL to Raster/Vector/PDF Conversions (3-PCLXForm units)	\$5,000	\$3,995	\$1,005



Support for Text Extraction of Double-Byte Typefaces (CJK, etc.)

Print streams with download outline font characters not mapped to Unicode or UTF8 can now be “unscrambled” using a new a Unicode Mapping method that complements our Character Descriptor Recognition (.CDR) method. With this new method, legible/searchable text can be derived from print streams intercepted for applications like: security analysis, conditional watermarking, document splitting, etc. The CDR method depends on specific bitmap or outline metrics including point size, stroke weight and styles. This new method is more extensible, but only works with download outline fonts. We have our previous CDR text extraction method if you cannot generate PCL with download outline fonts.



Support for Printer Resident Chinese, Japanese and Korean Double-Byte Typefaces

Print streams generated to take advantage of the CJK typefaces that are resident on printers for the CJK market can now be converted to PDF format. All we need is access to the matching TrueType typeface file to reference in our font map (PTC32.map) file.



PCLExtract<64>.exe Program

We added PCLExtract<64>.exe program exclusively to licensees of PCLTool SDK (all Options). This product manages Character Descriptor Recognition (.CDR) database files for unscrambling text. And, the ability to create Index_by_Location (.IBL) files for form scraping applications. PCLExtract.exe replaces the IBLTool.exe program used for the same purpose. This new and expanded interface includes all the recent enhancements to our text extraction capabilities. PCLExtract.exe originally cost \$500 and is now included in our SDK.

Read Out Loud PDF's

We added the ability to create PDF's that support Adobe's “Read Out Loud” feature for end users with visual impairments. This new feature is our first step in helping those generating documents that need comply with the ADA – Americans with Disability Act and the other legislation passed by the US and Canada. Two preferences have been enhanced and a new one has been added. The following programs support this new feature: PTC<32/64>.dll, PCLXForm<64>.exe, lmg2PDF and our GUI programs (PCLTool/PCLWorks/PCLReader).

SMTP Email Output

You can now send email directly from custom PCLXForm scripts or custom applications developed with our API functions with a new NetSmtplib<64>.dll called by PTC<32/64>.dll and indirectly via PCLXForm. It also needs the EmailMapi<64>.xdms file.



PCLm and PCLmS

This specification defines a simplified PostScript format with job ticketing metadata to support printing, scanning, and facsimile to print to HP printers with support for this new printer language. This specification is unpublished requiring us to reverse engineer it. Some printers that provide support for PCLm and PCLmS formats include: HP LaserJet Pro MFP 125/126/127/128, HP LaserJet MFP M176/177, HP LaserJet Pro MFP M521, etc. This is one of the cloud/mobile formats supported by the MOPRIA organization (mopria.org). The MOPRIA organization's membership includes most of the world's printer, scanner and smartphone manufacturers.



The PWG raster specification defines a multiple page raster format to support printing, scanning, and facsimile without printer-specific driver software on resource-limited clients and printers. The format includes support for a set of standard and device color spaces and bit depths, and defines PWG Semantic Model elements and IPP attributes that enable a client to generate or request a supported raster stream. Printers will be adding native support for PWG for Smartphone/Cloud-based printing. For more information: [ftp://ftp.pwg.org/pub/pwg/candidates/cs-ippraster10-20120420-5102.4.pdf](http://ftp.pwg.org/pub/pwg/candidates/cs-ippraster10-20120420-5102.4.pdf). This is one of the cloud/mobile formats supported by the MOPRIA organization (mopria.org). The MOPRIA organization's membership includes most of the world's printer, scanner and smartphone manufacturers.

Print and/or Convert PCL to the Cloud

Print2All<64>.exe *The new Print2All program is a combination of PCLMagic printer driver, port monitor, graphical user interface and template designer for splitting, printing, emailing, archiving and uploading documents to various Digital Postal Mail, Hybrid Postal Mail and cloud-based File Sharing services. This will be a trialware program for end users with the ability to purchase a upgrade to a live version at several functionality and page limit levels. Only the underlying .dlls and other programs are available to PCLTool SDK users that show an interest in them.*

P2Adesigner<64>.exe *Creates or modifies print stream processing template (.tpt) files that are used by Print2All and that can be also be used by PCLXForm for more complex applications.*



OneDrive<64>.xdms *Added support for Microsoft's cloud-based file sharing/storage services – OneDrive. (To fully demonstrate, you need to have a OneDrive account with handshake for API to upload interface.) Other services to added: GoogleDrive, Evernote, SugarSync, et al.*



Dropbox

DropBox<64>.xdms *Added support for our first of many cloud-based file sharing/storage services - DropBox. (To fully demonstrate, you need to have a DropBox account with handshake for API to upload interface.) Other services to added: GoogleDrive, Evernote, SugarSync, et al.*

Intelligent Mail® Barcodes



PCLXForm<64>.exe *Added IMB barcoding to PCLXForm ESC_FMT_Barcode function to generate IM barcodes to insert into print streams*

IMB-Overview.pdf *Explains IM barcodes and our PostNet2IMB.tpt demo script*

QR Coding



PCLXForm<64>.exe *Added QR coding to the PCLXForm ESC_FMT_Barcode function to generate QRcodes to insert into print streams*

QRCode-Overview.pdf *Explains QRcodes and our QRCodeDemo.tpt*