

# PCLTool SDK V7.802 – 09/14/02

## RELEASE NOTES

This release note covers all the **enhancements (in bold)**, modifications and bug fixes to PCLTool SDK since V7.5 (Please refer to PTRELN75.PDF for the final V7.509 release notes). The major changes included in V7.8 include:

1. Increased the level of compatibility for PCL5/PCL5e by adding to support for **HPGL/2** commands.
2. Increased the level of PCL5e compatibility by adding support for new **Type 16 - TrueType bitmap & outline fonts** downloaded by latest Windows drivers.
3. Increased the level of compatibility with PCL5c by adding some **color graphics** support.
4. Added dialog to Pre-Load (download) up to 3 PCL files containing fonts, forms and logo's from the **HP Forms and Font Manager Utility, et al methods**.
5. **PDFWrite.DLL**: Added some important new features to our native Direct Driver, including:
  - Owner and User Password security** - (40-bit and 128-bit encryption) to control the following PDF options:
    - Permissions** to allow Printing, Changing, Copying, Form Fill-in and other PDF functions.
    - Initial Magnification, Navigation Window, Page Layout, Initial Display Window and First Page Displayed** options.
    - The ability to enter Keywords via GUI, API or .TPT script functions.**
    - Selectively embeds only those .TTF fonts that are required and map to Windows resident fonts to insure the smallest possible .PDF files with mixed HP Resident, Custom and Windows Base14 resident fonts.**
    - Uses Flate compression on all raster objects embedded in our .PDF's.**
5. **PCLXForm.exe**: We continue to add new functions to PCLXForm and its Transformation Parameter Table (.TPT) script programming language. We improved our PTPGXF.PDF documentation, relocated the sample .TPT's into separate \SCRIPTS subdirectories and added many new sample .TPT's that include of:
  - .\BOOKMARK: PDF BOOKMARKING** by finding hidden PCL text for generating PDF Bookmarks for longer documents.
  - .\DENXFORM: FORM SCRAPING** by extracting **dental claim form** text in .CSV format for migration into EDI transactions.
  - .\BARCODE**: Extracts text, queries external barcode index generator and adds barcode PCL & Font via streamedit scripting.
  - .\EBCDIC: AFP to PCL EBCDIC** text character translation to extract readable text from AFP to PCL protocol converters and other PCL emitters.
  - .\TNXDEMO: Single pass PCL to ASCII text extraction** via a script that calls TNXDUMP.exe as a [End-File] process.
  - .\PSIZEPDF: Mortgage Loan Doc. Collation Script** to create separate PDF's for letter and legal size pages with a page size index file.
6. **ViewPCL.exe/ViewPCL.tpt**: Created a new PCL viewer with a higher level index (.INX) to find pages across multiple PCL printstreams. Requires PCLXForm and the .VIEWPCL.tpt to generate a higher level index to search for keywords across many archived native PCL files.
7. **PCLCodes.exe**: Updated this important development utility and it now shares the same parser code as PTC32.DLL.
8. **FILTR.dll**: Added .DLL version for use with it's own direct API and via PCLXForm CallFilter function.
9. **TIFF2PCL.EXE**: Added the ability to create temporary or permanent full-page form macros and placable logo macros.

**PTC32.dll:**

<b>Added support for color raster graphics</b>	[CSEnergy]
<b>Added ability to change color palettes in PCL5c</b>	[CITRIX]
<b>Added a Custom button to input the custom width and height in the Paper Size dialog</b>	
<b>Added support for the new Type 16 typefaces (bitmap and outline)</b>	
<b>Added EmbedPdfFonts=2 to not embed Base14 .TTFs in vector PDF's to reduce file size using resident fonts</b>	[HARLAND]
<b>Added ability to Pre-Load up to three PCL files for processing ahead of the printstream to be transformed.</b>	[TOPNORD]
<b>Added a pre-release, BETA version our new CDRS method of unscrambling PCL text (for pre-qualified testers ONLY)</b>	
Re-compiled .DLL's with the rebase the location to the 6000,0000h range	[Bestcase]
Fixed bug in way we handled the HPGL/2 label offset command mode 21(LO21)	[FASTNET]
Fixed limitation of generating a .TNX for PCL files greater than 32k pages	[KayeS]
Fixed viewing of raster data on page that was triggered only by duplex command	[Exigen]
Fixed viewing the back side of a duplex page prior to its front side	[Exigen]
Fixed excessive updating (slowness) of PTC32.INI preference changes when exiting dialogs	
Fixed problem of not being able to produce a .TNX when files are over 65kb pages	[KayeS]
Fixed PTC32.INI TempDir= preference to work with <a href="#">\\server.</a> type pathing	[KayeS]
Fixed "Too Many Fonts" error, when viewing d/l temp .FF1's not deleted upon .exe exit	[SAS]
Fixed calibration horizontal scaling and scaling for multi-part text objects	[BESTCASE]
Fixed View PCL without/Low-Level Indexing when auto overlay macros used with duplex	[TRIFIN]
Fixed calibration when converting to WMF / EMF / PMF file formats.	[BESTCASE]
Fixed error where only PCL to PDF (raster) will not extract text	[LOANPRO]

**PDFWrite.dll:**

- Added Flate Compression for raster objects**
- Added password encryption and permissions functions**
- Added document magnification, navigation and layout preference functions**
- Added Initial Window display and page preference functions**

**PCLXForm.exe:**

<b>Added LandRotate=2 to handle mixed portrait and landscape files based on image dimensions</b>	[SANDP]
<b>Added script functions &amp; PdfParams Section: Initial Window display and page pref functions</b>	
<b>Added to PdfParams Section: Keywords</b>	
<b>Added SetPref function to JobParam Section</b>	
<b>Added script functions &amp; PdfParams Section: password encryption &amp; permissions functions</b>	
<b>Added script functions &amp; PdfParams Section: doc. magnification, nav. &amp; layout pref functions</b>	
<b>Added StopOnError function to JobParam Section to dis/continue processing next file upon error</b>	[TOPNORD]
<b>Added Job_Had_Exception function to determine action when an error occurs during a job</b>	[TOPNORD]
Fixed script and code to save up to four indexes extracted from the comment HPGL/2	[PECORP]
Fixed error condition so that we no longer displays an error msg if no files are found to process in input directory	[TOPNORD]
Added example [PdfParams] functions to PDFPORT.tpt.	

**PCLTool.exe:**

- Added "Remove Margin" to the PCL to PDF -> "As Raster" option to adjust for the Reader adding it when printing.**
- Added to PDF Preferences dialog: password encryption and permissions**

document magnification, navigation and layout preferences  
Initial Window display and page preferences  
keywords

**Added Misc. Preferences dialog:** Allows setting of prefs. found in [MISC] section of the PTC32.INI:  
Character Descriptor Recognition System  
Page Object Layering  
PDF Conversion (Advanced Options)  
Miscellaneous  
PreLoad Path\Filenames

**Added Front Panel (PCL Defaults) dialog:** simulates printer Front Panel defaults and can generate prolog PCL files

**Added Override Filenaming input field in Convert and PCL to PDF dialogs.**

**Added AllowColor= & KeepBlankDuplexPages= to Convert Pref. – General Section.**

**Added NoSaveLog= & NoSaveMap= to Convert Pref. – Files & Paths Section.**

Fixed - Convert Dialog – Selecting a range of source files turns-off “extract text” & “normalize” buttons.

Fixed - If opened via Drag n’ Drop interface, it GPF’s when you try to D n’ D another file

Fixed - Effects/Set Zoom screen, the program aborts when you input non-numeric value

[CSGSys]

#### PCLView.exe:

**Added New Boot-Up Personalities via new TermsDisplayed= codes:**

=4 - Removes: Several dialogs & on Exit deletes .\data\\*.log, \*.tnx, \*.hix and .PCL) and invokes a Search dialog and deletes input PCL file upon exit

[MLAW]

=8 - Removes: Several dialogs and invokes a custom Search dialog using .INX indexes

[PROMAIL]

Fixed error when CSPLASH.BMP is missing it goes into the delay pattern – should display an error message

Fixed error when Input filename with space at end was not being handled properly

[MLAW]

Fixed error when not able to page through file after initial page is found

[MLAW]

Fixed error to allow a non-PCL extension to be entered on the command line

[MLAW]

#### PCLCodes.exe:

**Added a new PCL Escape Summary/Occurances Inventory List, Fonts Summary List, Page Offsets List, Macros List**

**Added continuation “↵” marks to show the continuation of long strings of HPGL/2 commands**

Updated parser code to be at updated level of PTC32.DLL parser.

#### FILTR.dll:

**Added .DLL for use with it’s own direct API and via PCLXForm CallFilter function**

[FCRM]

Added a list all the ASCII codes that DOS requires to be in [decimal] notation besides [38].

Fixed bug introduced in February to normalize PCL properly again

[NYMC]

#### PMon95/NT.dll:

Added PtRCode.DLL to check runcode check for HOTDIR.EXE in it’s own directory.

Added PtRCode.DLL to check runcode check for Pmon95.dll and PmonNT.dll in the .\WINDOWS\SYSTEM32 directory.

Added error log, if runcode check fails. PTPMON.LOG located in \win\system32\PTPMON.LOG.

**ViewPCL.exe: Developed a custom PCL viewer with a secondary keyword index (.inx) for searching many native PCL files. This custom option requires PCLXForm and the ViewPCL.tpt script to generate the indexes. It uses PMM.DLL for searches.[PMM]**

**PCLPrint.exe:** Added a SetPageCount=4 option to apply the PCL Copy Count command to print the correct number of pages [AHMtg]

**TIFF2PCL.exe** Added ability to create temporary or permanent, full-page form overlay macros and placeable logo macros [UNICARE]

**TIFF2PDF.exe:** Added “-m” parameter to adjust image if it’s within a ¼” of margin. [KANL]

**WinFMove.exe:** Added “/s” for silent operation (no screen display during .FF1 to .TTF conversion) [MLAW]

**HotDir.exe:** Added a new program to create a “hot” or “watched” directory to capture input PCL files.

**TNXDump.exe:** Added “Aligned ASCII Output” controls (“-g”) and “Forced Text Rotation” function (“-r”) [WHITEHT]

**SFPFF132.dll:** Added support for download bitmap fonts with uninitialized data in space character cells [IFIN]

**SFTFF132.dll:** Added support for download Type 16 typefaces for both bitmap or outline characters [CITRIX]

**\*Symbol Sets:** TTPE.SYM - WinBase14 support for PC-852 – Latin/Polish [GLOBE]  
 TTPH.SYM - WinBase14 support for PC-862 - Latin/Hebrew [MIGDAL]  
 FFPE.SYM - PC-852 – Latin/Polish Support for some resident typefaces [GLOBE]

**TaxView.exe:** Changed name from TV32.EXE

**Runcodes:** Add +/- 5 days tolerance in the system date check [EXIGEN]

**Documentation:** Updated all documentation and help files

<b>V7.802: Enhancements, Modifications &amp; Bug Fixes</b>	<b>09/14/2002</b>
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**GUI-Exe’s** Did not have latest screens for output filenaming and not to embed base 14 fonts

**PTV32.DLL** Fixed auto-rotate View PCL and reversing it back when printing from View PCL. [MINOTAUR]

**SPF2FF132** Make tolerant of a .SFP with errors [ALLIANZ]

**PCLDasm** Handles implied PCL when escapes illegally follow UEL command [ASHLACY]

**PCLDasm** Enhancements to track color raster and summary [CITRIX]

**PCLDasm** Transparent print mode support, eliminating some false page ejects tracked

**FILTER** Font Optimization (“-7” argument) bug fixed [PBSH]

**FF/TTGR.SYM** Fixed the mapping in the (obsolete) ISO 21 German character set [VW]

**FF/TTM8.SYM** Added the Math-8 character set [HDRB]

**Colortxt.PCL** Enhanced the PCL this text file to product color and fixed conversion to PCX format

**Source Code** Removed obsolete code, rearranged and updated latest code