

# PCLTool SDK v7.90G – 8/2/2004

## RELEASE NOTES

This release note covers all the **enhancements (in bold)**, modifications and bug fixes to PCLTool SDK since V7.802 (Please refer to *PTRELN78.PDF* for the final V7.802 release notes). The major changes included in V7.9 include:

1. Increased the level of compatibility with PCL5c by adding some **color graphics** support for conversions to raster formats.
2. Added a **multiple instance mode** to our .DLL's and .EXE's – only available with the Unlimited – Extended Use Option .
3. PCLXForm.exe:
  - Added RastChar functions to define a RECT area in a graphics object for **OCR** of the text found within.
  - Added RastGrid functions to **extract graphic objects** (check images) from PCL and write them out as individual TIFF files.
  - List of new JobParam functions:**
    - CDRSDir and CDRSFilename
    - Compression
    - Conversion=index, DCX, PNG & EMF
    - HorzRes and VertRes
    - OverlayDir, OverlayOffsetX and OverlayOffsetY
    - RasterFieldCheckText.
    - RasterField
  - New Field function:**
  - List of new Job functions:**
    - Config\_Text\_Extract and Init\_Text\_Extract
    - pclAddFont and pclAddTextObj
    - RastChar\_Get, RastChar\_Init and RastChar\_Quit
    - RastGrid\_Close, RastGrid\_Process, RastGrid\_Setup & RastGrid\_Tag
    - StreamEdit\_CloseSection
4. PTC32.DLL:
  - List of new API functions:**
    - pclGetFirstTextObj
    - pclGetNextTextObj
    - pclGetPgEndOsets
    - pclQueryByLoc
    - pclSetPdfEncrypt
    - pclSetPdfInfo
    - pclSetPdfPref
    - pcl2PdfRaster
    - pcl2Png
5. PCLTool.exe: Added Support for **PNG output format**. (must use your browser to view the PNG files created.)
6. PCLCodes.exe: Added support for 2-byte PCL, disassembly of HPGL/2 & PJP and provide more font inventory data
7. FILTER.exe: Added a PCL5 to PCL4 conversion with the (“-8”) argument.
8. TIFF2PCL.exe: Added code to make permanent or temp macros, including the generation of execute macro code for testing.
9. **CDRS:** Improved **Character Descriptor Recognition System’s** ability to “unscramble” text from “on-demand” temp. download fonts.
10. **ViewPCL.exe:** Added a new version of PCLView with a higher level index structure for fast retrieval of pre-indexed PCL for viewing/printing.

**V7.9: Enhancements, Modifications & Bug Fixes**

**03/01/2003**

### PTC32.dll:

- Add function to **OCR text in raster object from a dental claim form** [GCC]
- Add function to **extract graphic objects and write them out as individual TIFF files** [III]
- Add **Multi-instance personality** [TTSOA + PBGC]
- Add **color/hpgl2 support for PCL5C from an HP Color LJ 4550 printer driver (to raster only)** [Citrix]
- Converting to BMP is best format when converting >8 color planes (view as “Lighter”)**
- Add the **PNG to list of .EXT’s in View PCL dialog - NEEDS IE TO VIEW PNG’S**
- Add **logic for text overlay adhere to PCL symbol set used for searchability in non-PC-8 char. set** [DCSAM]
- Added a Debug mode to deselect all raster or non-raster objects [HCS]
- Added code to convert to PCX with multi-pg=yes to create a .DCX. It creates a multi-pg .PCX instead [ADVO]
- Added code to detect .LB cmd of a “.” placed off the right-side of the printable area is ignored as a page [GRANGE]
- Added logic to honor font scaling required by increasing LPI in the Front Panel Defaults dialog [SAPP]
- Added Runcode option that activates the Multi-Instance code [TTSOA]
- Added support for new method of HPGL/2 text spacing [METAFILE]
- Added support for white text in WMF conversions [BEST]
- Added TESTCLR.PCL a color Graphics test file
- Added TESTSFT2.PCL a download .SFT Type 16 font test file

Added support for color PCL5c vector PDF	[TURF]
Optimized font mgmt to read from the .\FONTS directory versus copying them in M/I Mode	[ATA]
Replaced some legacy 16-bit code to support double-byte PCL5J resident MS Mincho.TTF	[ISC]
Fixed a low resolution drop-out issue with the MINCHO font	[ISC]
Fixed bug when converting to vector formats	[HCS]
Fixed Push/Move/Pop sequence support in parser logic	[SouthData]
Fixed reloading of Pre-loaded PCL files between jobs	[TOPNORD]
Fixed overlay transparency bug	[Phenix]

**PCLTWrap.dll:**

Updated with new PTC32.DLL functions

**PCLXForm.exe:**

<b>Custom .TPT, Added "EXT" to Str_Append_Basename, Added Str_Char_Replace</b>	[MDY]
<b>Color PCL to raster only format implementation</b>	[TURF]
<b>Added boxes to display long filenames</b>	[KayeSch]
Added new Dental Claim Form scraping script (DenxFRM4.IBL/TPT) with Rasterfield + Xcheck parameter	[GCC]
Fixed OverlayFilename= to work when Conversion=pdfvector	[OTTO]
Fixed OverlayFilename function	[WIND]
Fixed to honor PTC32.INI compression preference and has Compression= JobParam function	[ISC]

**PCLTool.exe:**

<b>Color PCL to raster only format implementation</b>	[TURF]
Added Convert Pref. / Misc. Pref. / Misc. – "Ignore Raster Objects" -> yes/no	
Added Convert Pref. / Misc. Pref. / Misc. – "Ignore Text/Vector Objects" -> yes/no	

**PCLView.exe:**

Added back the View and Convert Preference dialogs

**PCLCodes.exe:**

**Added code to handle 2-byte text**  
**Added code to list all fonts called with attributes and symbol set**  
**Added code to disassemble HPGL/2 and PJL commands individually**  
 Re-arranged main dialog buttons: "View Dest", etc. and added "Show 24-Bit..." and added "Color Palettes"

**FILTER.exe:**

<b>Added the "-8" argument to convert PCL5 to PCL4 and insert the appropriate fonts</b>	[ORRTAX]
<b>Added the "-100" argument to fix an input char. map .txt file problem</b>	[OPIN]
Fixed invalid font/char cell switching in files with re-used temp. font char. cells	[DIMP]

**ViewPCL.exe:**

<b>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.DLL]</b>	[PROMAIL]
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**TIFF2PCL.exe**

<b>Added ability to create temp. or perm. full-page form overlay macros and placeable macros</b>	[UNICARE]
Added support for honoring the Photometric Interpretation tag (262)	[BAYER]
Added the ability to remove all PCL escape codes to provide just the compressed PCL raster object	[BAYER]
Added support to scale-up 200 dpi TIFF fax images to fit properly on a letter size PCL page	[TPS]

**WinFMove.exe:**

<b>Added support for Japanese MS Mincho .TTF font (17,000 chars.)</b>	[ISC]
Added .TTF header data: copyright, licensing, etc.	
WFM MOVE.DLL Updated for internal reasons	

**TNXDump.exe:**

<b>Added a "-a" argument to suppress the page numbering of the output text files</b>	[Kayes]
<b>Added a "-r" argument to force text rotations</b>	[WHITEHT]
<b>Added a -W5 "g" argument to control the alignment of ASCII output</b>	[WHITEHT]
<b>Added a "m" argument to dump ASCII to a specific PCL symbol set enhanced searchability</b>	[DCSAM]
Added a -W5 "a" argument for adaptive vert. line spacing (w/snap-to parameter 6 pixels at 300 dpi)	[PBAZ]
Added a -W5 "b" argument to flush "X,Y,Text" text to the with left/top	[Kayes]
Fixed the "-w5" argument left/top justification to make it compatible with V7.5.	[Kayes]

**Symbol Sets:**

TTPE.SYM/FFPE.SYM – PC-852 WinBase14 support for PC-852 – Latin/Polish is now available	[GLOBE]
TTPH.SYM - WinBase14 support for PC-862 - Latin/Hebrew is now available	[MIGDAL]
TTE5.SYM - Turkish symbol set - ISO 8859/9 Latin 5 is now available	[ISC]
Added character mappings for ASCII cells 1-31 in FFPC.SYM, FFPD.SYM & FFPM.SYM	[IRS]

**V7.9 Maintenance Releases****7.901 – 05/07/03**

PCLXForm	OCR-char. descenders overlapping horz. line draw D3F*.PCL	[GCC]
PCLXForm	Tolerant of RECT dimensions to the 1000ths of inch.	[GCC]
PCLXForm	Shows list of fields with “missed characters” in the RECT area in the TPT.LOG file	[GCC]
TNXDUMP	Broke –w5 text output by rearranging text back to left to right	[MRG]

**7.902 – 05/09/03**

PTC32.DLL	Fixed linedraw and shading issues when converting to PDF	[DPNT]
PTC32.DLL	Fixed point size calculation determined by CPI value for Ltr. Gothic in vector PDF's	[DPNT]
To PDF's	Fixed rounding error when generating raster object matrix for Outside/In	[WINDREAM]
PTC32.DLL	Improved best-font-fit font selection for downloaded fonts by symbol set (#28928)	[AtlFood]
PTC32.DLL	Fixed support for “invisible” text produced by a 10,000 CPI in .\atflatf.pcl	[AtlFood]

**V7.903**

PTC32.DLL	To force a paper size, specify it as a Custom Paper Size. Exit/Re-start PCLTool.exe for it to work.	[PQR]
PTC32.DLL	Conversion of 600 dpi PCL to 600 dpi PDF requires the output resolution to set to 600 dpi	[SEICEM]
PTC32.DLL	PDF does not support color palette concept. Conversion to PCX/PMF/WMF/PDF-R of 8-bit color PCL raster was not working. Only PDF-V would create 24-bit raster objects	

**V7.904**

PTC32.DLL	HMI of secondary font not being saved from page to page	[IBZ]
PCLXForm	New QrastFlags=255 [JobParam] function set spacing rules when OCR'ing raster text	[DENXFORM]
SFPFF132.DLL	Added code to accept a download bitmap font with bad syntax in header	[BEC]

**V7.905**

GUI *.exe's	“Don't embed Base 14 fonts” option will not stay de-selected	
PCLXForm	Enlarged size of area that can be allocation to a text extraction field	[LINDENH]
PCLXForm	Enhanced parsing of .TPT command line argument when enclosed in quotes	[LINDENH]
PCLXForm	Added ViewScale / ScalePct preferences to match the PDFPrefs in the APP.INI	

**V7.906 –06/27/03**

PTC32.DLL	MISafe bug that would not convert downloaded fonts	[PRTT]
PTC32.DLL	PC Host Unit detects/warns against use by remote PC Unit – warning instead of “invalid page cnt” errmsg.	
PTC32.DLL	Added functions to scan large raster areas more efficiently	[VESTCOM]
PTC32.DLL	Expanded maximum PCL file size limitation from 2GB to 4GB	[VESTCOM]
PTC32.DLL	Enhanced the way we responded to a marked page in duplex mode	[VESTCOM]

**V7.907 –07/15/03**

PCLXForm	Output text fixed to not treat a “%” sign as a formatting character, but as text.	[E2S]
PTC32.DLL	Font management enhanced to detect redundant font downloading from within a macro	[DCSAM]
PTC32.DLL	HMI rounded to units of measure	[BCC]
PTC32.DLL	Added support for HPGL/2 Line Type commands	[BUEROTEX]

**V7.908 – 9/18/03**

PCLCodes	Add ExtWidFile= path to PCLCodes.ini	
<b>PCLCodes</b>	When strip fonts+keep is selected – output stripped fonts in .SFP, .SFS or .SFT formats (with/without DFID?)	
<b>PCLDasm</b>	Have PCLDasm look for the PCLCODES.INI if no command line is given and run the same as PCLCodes.	
<b>PCLDasm</b>	Add option to extract fonts into individually named files with appropriate extensions	
<b>PCLDasm</b>	Add Escape Summary for XL Codes	
PCLDasm	Add a verbosity level PCL XL translation option	
<b>PCLPrint</b>	OverlayOffsetX and OverlayOffsetY added to APP.INI to position logo graphics on page	[APSOFT]
PCLXForm	Output text fixed to not treat a “%” sign as a formatting character, but as text.	[E2S]
PCLXForm	Support for 1200 dpi TIFF	[APSOFT]
Port Monitor	Fixed server pathing problem	[CalTest]
PTC32.DLL	Font management enhanced to detect redundant font downloading from within a macro	[DCSAM]
PTC32.DLL	HMI rounded to units of measure	[BCC]

PTC32.DLL	Added support for HPGL/2 Line Type commands	[BUEROTEX]
PTC32.DLL	Fixed LORCBug for top edge reg./margin adjs. on stitched documents for JetLetter	[STMT]
PTC32.DLL	Fixed a HP CLJ 4500 color problem for Universal Printer Driver version	[CITRIX]
PTC32.DLL	PCL5C - Color raster bug for Universal Printer Driver version	[CITRIX]
PTC32.DLL	Test file size limitation with 3.6GB file	[VESTCOM]
PTC32.DLL	Added code to handle a HPGL/2 problem	[BUEROTEX]
PTC32/XFM	Extract raster object to TIFF file halted job half way through the files	[E2S]
PTV32.DLL	Added support for OverlayOffsetX & OverlayOffsetY in APP.INI to position graphics on page	[APSOFT]
TNXDump	Added -an argument to omit page numbering and formfeeds in -w5 output	[ISRC]
TNXDump	Added -w6n<linenum> argument to set pages to a fixed number of lines	[ISRC]
<b>TNXDump</b>	Fixed -w5a function	[ISRC]
ViewPCL	New custom configuration #9	[PHILIPNL]

#### V7.908 – 9/18/03

PTC32.DLL	Font engine font scaling metric bug	[Intellibiz]
PTC32.DLL	Font Metric issue	[Accupay]
PTC32.DLL	Rounding of font pitch when setting HMI	[Colvin]
PCLXForm	Added new Web Service Variable interface	[PCL2PDF.NET]
WINFMOVE	Serious bug introduced in V7904 that produced bad .TTF bound to a Symset from our .FF1's	[EDS]
TNXDUMP	Add Serialized Field names starting with "F001" for -w4 format	
TIFF2PDF	Includes an "@List" feature which replaces the input .TIF filename(s)	

#### V7.90E – 3/18/04

PTC32.DLL	PCL to any raster format is corrupted. PCL View to bitmap and all PCL to vector is okay	[OITI]
PTC32.DLL	Fixed HPGL/ ? of PCL transparency setting	[OITI]
<b>PTC32.DLL</b>	List conversion formats alphabetically (BMP, EMF, PCX, PDF-r,PDF-v,PMF, PNG, TIF & WMF)	
PTC32.DLL	Fixed metrics problem	[PECORP]
PTC32.DLL	Fixed underlining problem	[LINDEN]
<b>PTC32.DLL</b>	Added functionality to rotate pages during conversion - PREF_INTL_FORCE_ROTATE	[SHAM]
PTC32.DLL	Enhanced our ability to work with macros that spanned two duplexed pages	[SEDONA]
PTC32.DLL	Fixed some font metric issues	[SEDONA]
PTC32.DLL	Added code to honor Custom Paper Size – SetPref commands	[TROMBA]
PTC32.DLL	Added code to fix problem with raster objects rotated 180 degrees	[WECU]
PTC32.DLL	Fixed rounding error in object list when certain HMI values are used	[DSCOM]
PTC32.DLL	Refined shading percentage when set by HPGL/2 custom fill pattern	[DSCOM]
PCLView	View .\prod\data\manypage\14000.pcl it stops on page 6,420.	
<b>PCLXForm</b>	Added Skip_Remaining_Input, (Num:bDelete), "if bDelete non-zero then input file deleted" new function to bypass input file if criteria not met	[DENXFORM]
PCLXForm	Added code to better recognize truncated characters	[DENXFORM]
<b>PCLXForm</b>	New functions? StreamEdit PCL, Index/Retrieve/View	[PHILIPNL]
Runcode	Turn-off Font Extraction when the Opt Code = "64" (watermark for PCLTools, etc.)	
FFWN.SYM	Added some missing high ASCII characters due to typo's in .sym file map	[EVISION]
<b>TIFF2PCL</b>	Added "-c" to preserve color and create PCL5c overlay	
<b>TIFF2PCL</b>	Added "-x" to extend output to 600 dpi if found in TIFF file	
TIFF2PCL/PDF	Read TIFF's created by PaintBrush (./amdpi/F9920001.TIF)	[AMDPI]

#### V7.90G – 3/18/04

PCLXForm	Overlay color TIFF into a raster or vector PDF	
PTC32.DLL	Add support for converting HPGL/2 color to grayscale	[SirSpdy]
PTC32.DLL	FIX missing HPGL/2 only with View PCL	[SCM]
PTC32.DLL	Fixed a problem with custom PCL	[WMC]
PTC32.DLL	Fixed a problem detecting the correct duplexing mode	[EDS]
PTC32.DLL	Improved character spacing algorithm for FormScape generated files	[BECK]
PTC32.DLL	Improved font matching with download font has invalid symbol set	[SCM]
PTC32.DLL	PREF_INTL_VECT_PDF_CROP: "remove margins" for Text files converted to vector PDF???	[TROMBA]
PTC32.DLL	PREF_POST_ROTATE: How Automatic Rotation feature works???	[LBM]
SFP2FF1.DLL	Fix for custom download bitmap fonts	[CO3]