

# PCLTool SDK V8.795 / PCLWorks V8.795

10/21/09

## RELEASE NOTES

This release note covers all the enhancements (in **bold**), modifications and bug fixes to PCLTool SDK SDK-specific items are in *dark purple italics*) and PCLWorks since V8.3 (Please refer to *PTRELN83.PDF* for the final V8.3 release notes). The major changes included in V8.70 released on 02/20/2008 include:

### ENHANCEMENTS:

- 64-Bit** *Tested all of our 32-bit programs to be compatible with the XP Pro 64-bit. We added a 64-bit version of the Port Monitor (PMon64.dll). And, needed to make changes to PtRCode.dll, HotDir.exe and PCLXForm for 64-bit operation. We also started porting other programs to 64-bit platforms, starting with ImgCvt\_64.dll. Note: Fast User Switching must be turned-off when running our 32-bit programs a 64-bit environment.*
- Vista** *Tested all of our 32-bit programs to be compatible with Vista and Vista 64-bit. We needed to make changes to the 32-bit version of the Port Monitor (PMonNT.dll/PMon64.dll) to make it compatible with the new Microsoft "Fast User Switching" option.*
- GUI .exe's** DEP (Data Execution Prevention) is a new security feature in Windows XP, 2003 and Vista. PCLTool.exe, PCLWorks.exe and PCLView.exe create false-position error conditions because they are compiled with an older Borland compiler. We are in the process of migrating these .exe's to MS VC. In the meantime, you will need to exclude these .exe's from the DEP security checking process.
- SilentStartup** *Added [PCLXForm] section to APP.INI with a new **SilentStartup=1** function. Some startup errors that can occur in PCLXFORM get flagged with a dialog box, regardless of the 'Silent' setting in the TPT script. These are errors that cause termination, before the TPT script is processed. These errors include runcode errors and errors parsing the TPT script. For situations where even these items should not be reported by a modal dialog box, we've added a new setting to suppress the dialog box, and only record the condition in a log file before exiting. These involve settings in PTC32.INI and APP.INI. These settings cannot be set at runtime, the files must be edited to set the required preferences. They should only be used in situations where dialogs boxes cannot occur, even when pclxform cannot run. Remember that if PCLXFORM does not run as expected, remove these settings and run again to discover the reason via our errmsgs and log files.*
- Filter -7 -s +cdrs** Added CDRS logic to Filter to unscramble the text in the output PCL when streamediting an input PCL file.
- Filter.exe** Added full support for "-7 -s" font character-level optimization to reduce PCL file size and throughput).
- HP JetReady** Added full support for HP's new PCL6 JetReady raster (JPEG) graphics in the HPLJ 3500/3550/3600 printers.
- Indexing** Added new **Just-In-Time Indexing** when viewing PCL from any of our .exe's. And, for making sure that it's turned-off when PCLXForm or custom programs need to generate a .hix file using the new **PREF\_INTL\_INDEX\_JIT** preference.
- Max. File Size** Increased the maximum input PCL file size to more than one TeraByte.
- Normalization** Reduced the resources required to normalize PCL pages for extraction to increase throughput speed.
- PCL3GUI** Added support for PCL3GUI (output for medical/lab/WIN CE devices) JadTech
- PCL5c/XL** **Enhanced algorithms in parser to inc. convert speed of color objects to raster/vector PDF Mercer/HTC**
- PCLXForm.exe** *Added to programs to log events in **Windows Event Handler:** PlainAns  
**InstallPTWinEvents.exe** – registers/installs/uninstalls the PageTechEvents.dll PlainAns  
**PageTechEvents.dll** - Event logging program called from any .exe PlainAns*
- PCL XL** **Enhanced ability to extract text from PCL XL files using CDRS options.**
- PDF** **Optimized logic to eliminate redundant graphic (logo/signature) objects in vector PDF files.**
- PDF /JBIG2** Increased JBIG2 raster object conversion speed with enhanced algorithms to support global tables for download fonts for conversion to raster PDF only.
- PDF/A Format** Made several enhancements to more quickly create PDF/A files with higher data integrity. APPIC
- PDFWrite.dll** *Added **10 new functions** to our direct PDF driver.*
- Indexer** *Added a powerful new indexing feature to our Port Monitor. With the Indexer function, you can add up to 8 custom keyword fields to the information that the Port Monitor collects from the Print Manager. This information gets inserted as PJL Comments into the captured/redirected spool files. This new feature comes with a new **DEFAULT.tpt** file to convert the spool file into PDF, as it did before. However, the index text is now inserted into the Keyword section of the PDF file header and an external **.IDX** text file is created with all the index keys extracted from the PCL. Also added functions to search PJL comments.*
- Extract PJL text** *Added ability to extract PJL Comment text from PCL during conversion or dump with TNXDump.*
- Sample Code** *Added some new **.NET sample projects and enhanced others.***
- XLDLL32.DLL** You must use JIT indexing to View PCL PCLXL files xlc23/xljr9.pcl
- XPS Output** Added new **pcl2XpsRaster** function to PTC32/PTCNet.dll and ImgCvt/ImgCvt\_Net.dll to output to Microsoft's new XPS portable document format, in all programs that convert to other file formats (PCLTool.exe, PCLXForm.exe and a new, **IMG2XPS.exe**).

### MODIFICATIONS:

- .SYM Files** Added low ASCII characters in cells 1-31 to the following symbol sets: TTPC, TTPD, TTPE, TTPG and TTPM
- CalIDLog.dll** Added to installation/setup files. Needed by PMon in order to validate runcode with PageCounter
- Filter.exe/.dll** Added support for Lexmark raster **compression method 1008** MW-INC

GUI .exes	Add the "-s" option to the Modify PCL page - <b>Eliminate Redundant fonts &amp; Optimize PCL</b> pref.	
Hidetxt.pcl	Added some new methods of hiding text in a PCL file.	
HPGL/2	Added code to support diagonalHPGL/2 text	Acuprint
HPGL/2	Fixed bug that changed the color when exiting HPGL/2 and re-entering PCL	Mozell
Img2* .exe's	Add the new log file warnings for input raster images that may cause unwanted results	
Img2* .exe's	Detect when the IMG is under 300 dpi resolution and issue an error message	
Img2PCL.exe	2pcl.ini – [Convert] Section – noclipwarn=1 ; will suppress warnings	Fedex
Img2PCL.exe	Fixed bug in the way the input file or multiple files were selected	ReclInfo
Img2PDF.exe	Removed false pos. condition that showed "error preparing demo overlay" and "error setting up overlay" errmgs	
ImgCvt.dll	Added new function to accept input of raster image from other applications	ScanData
ImgCvt.dll	Added new output option to generate uncompressed PCL raster	ScanData
ImgCvt.exe	-noclipwarn – add ahead of the filenames on cmdline	Fedex
PCLXForm	PCLXForm checks NoSave pref. before updating PTC32.INI w/SetPref's - causes A/V sfwr to interfere	DevInfo
PCLXForm.exe	Fixed when Conversion=pdfrastrer does not honor default compression=2. Use JBIG2Compression	Informatix
PCLXForm.exe	Added the following new [JobParam] SetPref preferences: <b>PREF_INTL_ALSOINX</b> – low-level index PCL during a conversion <b>PREF_INTL_END_INDEX_JIT</b> – Closes JIT indexing on current file. <b>PREF_INTL_FILLSTATE_WHITE</b> - function to place white text in PCL streamedit jobs <b>PREF_INTL_FORCE_TIFF_RES_X</b> – Override the reported resolution of the TIFF output file. <b>PREF_INTL_FORCE_TIFF_RES_Y</b> – Override the reported resolution of the TIFF output file. <b>PREF_INTL_GET_MEM_MONO_BITAP</b> – Returns in-memory mono bitmap of current page. <b>PREF_INTL_IMAGECACHE_MBYTES</b> – Reserve size of image cache <b>PREF_INTL_INDEX_JIT</b> – Generate a JIT index (turns-off low-level indexing) <b>PREF_INTL_INTL_REUSE_IMAGES</b> – Detect repetitive images and reference just one globally <b>PREF_INTL_INX_KEEP_OBJECTS</b> – Needed to examine the object list after each page. <b>PREF_INTL_MACRO_DISABLE</b> – Caused macros to be ignored. <b>PREF_INTL_MEM_MONO_BITAP_RES</b> – Sets resolution for in-memory mono bitmap. <b>PREF_INTL_OPT_DLOAD_FONTS</b> – Optimize downloaded fonts by eliminating duplicates <b>PREF_INTL_RECT_CNT</b> – Provides the number of rectangles in object list for current page. <b>PREF_INTL_WRITE_RASTPAGE</b> – Causes in-memory bitmap to be output. <b>PREF_KEEP_OFF_PAGE_TEXT</b> – Look for hidden text placed off the printable area <b>PREF_PAPER_SIZE</b> - Added support for A5, A6, B4 and B5 paper sizes <b>PREF_TRACK_PJL</b> -Turns-off PJL tracking for text extraction. <b>PREF_TRACK_PJL_DELETES</b> - Specifies how long PJL is saved in memory. <b>PREF_TRIM_ALL_PAGES</b> -Applies to all pages in the job. <b>PREF_TRIM_DIM_X</b> -width of trimmed rectangle. <b>PREF_TRIM_DIM_Y</b> -height of trimmed rectangle. <b>PREF_TRIM_OSET_X</b> -left edge of trimmed rectangle. <b>PREF_TRIM_OSET_Y</b> -top edge of trimmed rectangle. <b>SPREF_INI_FILE</b> -Specify a new .ini file and cause PTC32.dll to re-initialize to it. <b>SPREF_PJL_GET</b> -Get next saved PJL item. <b>SPREF_PJL_GET_COMMENT</b> -Get next PJL Comment (discard preceding non-comment PJL). <b>SPREF_PJL_GET_INDEXER</b> -Get next PJL Comment Indexer text item. <b>SPREF_PJL_SETGET_NAMED_FIELD</b> - Set a Indexer field name for query and get the field value from PJL.	DocuTrst
PCLXForm.exe	Added the following new [JobParam] functions: <b>KeepOffPageText</b> <b>OptimizeDownloadFonts</b>	
PCLXForm.exe	Added the following new [Job] transformation functions: <b>Close_Raster_Page</b> - Close raster page. <b>Config_Ascii_Bitmap_Evaluate</b> - Evaluates full page bitmap to verify the defined grid first. <b>Config_Ascii_Bitmap_Page</b> - Config save to ASCII page. Uses full page bitmap from Get_Mono_Bitmap. <b>Copy_Raster_Rect_1000dpi</b> - Extract raster rect from Get_Mono_Bitmap bitmap, place on raster page. <b>Create_Ascii_Page</b> - Returns true if successfully creates ASCII page from full page bitmap. <b>FileAsm_Extract</b> - Extract source page(s) to destination file. <b>FileAsm_GetError</b> - Get text for last FileAsm error. <b>FileAsm_Op</b> - Perform designated FileAsm operation. <b>Find_First_Text_Get_Line</b> - True if any text located in rect, and returns topmost line any y coord. below. <b>Free_Ascii_Page</b> - Disposes of ASCII page created by Get_Mono_Bitmap function. <b>Get_Conversion_Format</b> - Gets the eRastFmt_* scalar value for the conversion format. <b>Get_Indexer_Field</b> - Returns true if non-empty entry in indexer field name fldname. <b>Get_Last_Find_Text_Y</b> - Returns Y coord. (100 dpi) below text in last successful Find_Text_Get_Line call. <b>Get_Mono_Bitmap</b> - Acquires memory based mono bitmap for use in bitmap editing functions. <b>Get_Text_Past_Search</b> - Returns true if non-empty string beyond search string srch in str. <b>Open_Raster_Page_7200dpi</b> - Opens raster page, to be built from sub-regions of Get_Mono_Bitmap. <b>Set_String_Preference</b> - Calls pclSetStringPreference () function in convert DLL. <b>Write_Ascii_Page</b> - Writes ASCII page created by Get_Mono_Bitmap function to output file. <b>XLEmit_Op</b> – Allows a sequence of PCL XL commands to be created in memory, then appended to a file	
PDF/A	Added code to extract the char. widths required when creating a PDF/A to better adhere to ISO spec.	APPIC
PDF/A	Added code to only use the one CMAP required/allowed when creating a PDF/A for ISO spec.	APPIC

PDFWrite.dll	Fixed some syntax anomalies in the Doc. Info. Preferences when making PDF/A format	APPIC
PDFWrite.dll	Global tables for d/l fonts & raster chars. in <b>JBIG2</b> raster PDF's are optimized to be smaller and faster Improved the way handles condition when trying to write to a PDF file that is opened and unshared by the Reader.	
<i>PMonConfig</i>	<i>Fixed errmsg, when you open the Port Monitor Config. Dialog - do nothing and cancel.</i>	
<i>PMSetup/64.exe</i>	<i>Port Monitor Configuration dialog now finds the help file in the correct location.</i>	
PTC/.hix (new)	Reduced the resources required to normalize pages for extraction - smaller file sizes/increased speed	<b>RecInfo</b>
PTC/HIX	Expanded to support for new PCL XL operands	
PTC32.dll	Added <b>optimization</b> logic to eliminate redundant graphic objects - <b>VECTOR PDF</b> (DEF:=yes)	
<i>PTC32.dll</i>	<i>Adapted following low level functions to use with the new JIT method of indexing:</i> <i>pcl2memHDCBitmap</i> <i>pcl2memoryDib</i> <i>pcl2memoryWmf</i> <i>pclExtractPage</i> <i>pclExtractPages</i> <i>pclGenNumPages</i> <i>pclIndexFile</i>	
<i>PTC32.dll</i>	<i>Adapted following high level functions:</i> <i>Close_Raster_Page Config_Ascii_Bitmap_Evaluate Config_Ascii_Bitmap_Page</i> <i>Copy_Raster_Rect_1000dpi Create_Ascii_Page FileAsm_Extract</i> <i>FileAsm_GetError</i> <i>FileAsm_Op Find_First_Text_Get_Line</i> <i>Free_Ascii_Page Get_Conversion_Format</i> <i>Get_Indexer_Field</i> <i>Get_Last_Find_Text_Y</i> <i>Get_Mono_Bitmap Get_Text_Past_Search</i> <i>Open_Raster_Page_7200dpi Set_String_Preference Write_Ascii_Page</i>	
<i>PTC32.dll</i>	<i>Added the following new high level Get and Set preferences:</i> <b>SPREF_INI_FILE</b> <b>PREF_KEEP_OFF_PAGE_TEXT</b> <b>PREF_TRIM_ALL_PAGES</b> <b>PREF_TRIM_OSET_X</b> <b>PREF_TRIM_OSET_Y</b> <b>PREF_TRIM_DIM_X</b> <b>PREF_TRIM_DIM_Y</b> <b>PREF_INTL_INDEX_JIT</b> <b>PREF_TRACK_PJL</b> <b>PREF_TRACK_PJL_DELETES</b> <b>SPREF_PJL_GET</b> <b>SPREF_PJL_GET_COMMENT</b> <b>SPREF_PJL_GET_INDEXER</b> <b>SPREF_PJL_SETGET_NAMED_FIELD</b> <b>PREF_INTL_FILLSTATE_WHITE</b> - function to place white text in PCL streamedit jobs <i>pclGetLongPreference</i> can be used to query any of the preference values, and should specifically be used when querying these 32 bit preferences : <b>PREF_INTL_SRC_LEN</b> <b>PREF_INTL_GET_MEM_MONO_BITAP</b> <b>PREF_INTL_XLOS_BEFORE_BEGINSES</b> <b>PREF_INTL_XLOS_AFTER_BEGINSES</b> <b>PREF_INTL_XLOS_BEFORE_BEGINPAGE</b> <b>PREF_INTL_XLOS_AFTER_BEGINPAGE</b> <b>PREF_INTL_XLOS_BEFORE_ENDPAGE</b> <b>PREF_INTL_XLOS_AFTER_ENDPAGE</b> <b>PREF_INTL_XLOS_BEFORE_ENDSES</b> <b>PREF_INTL_XLOS_AFTER_ENDSES</b>	
<i>PTC32.dll</i>	<b>KeepOffPageText</b> function will allow PTC32.dll to not ignore text that is placed off the printable page	Linden
PTC32.dll	Enhanced parser to handle faulty Escape codes like the printer	Acuprint
PTC32.dll	Fixed a edge case where stray text was intermingled with a all-raster page image	GP
PTC32.dll	Fixed a problem when selecting a new font, then immediately using Tab escapes to space text	Verizon
PTC32.dll	Fixed a problem with a macro that had two pages	APPIC
PTC32.dll	Fixed bug (intro'd 6/16/07) that made mono raster objects yellow after a HPGL/2 "IN" command	
PTC32.dll	Improved our method of determining the font point size when selected by font pitch.	
PTC32.map	Added HMI values to the 4101 (CG Times) to Times New Roman Base Remap	greggv
SFPFF132.dll	Made more stable when it encounters corrupted binary data in downloaded characters	CGI

**PROGRAMS ADDED TO BUILD IN .JUTILS FOLDER WITHOUT DOCUMENTATION AND NOT OFFICIALLY RELEASED**

<b>DownFile.exe</b>	Downloads PCL, Macro and Font files to printers, ports or to file.	
<b>EnumPorts.exe</b>	<i>Enumerates the available Ports.</i>	
<b>FontTool.exe</b>	Downloads fonts and tests resident printer fonts and symbol sets	
<b>HotDirZ.exe</b>	<i>Added a new .exe to watch multiple folders and initiate a process for each folder or for groups of folders.</i> <i>PlainAns</i>	

<b>PCLNUP.exe</b>	Scales and merges multiple PCL pages into PCL pages with multiple pages on them.	
<b>PTEvents.dll</b>	<i>PTEvents.dll documentation and add to vrelease PTEventsInst PTEventsInst.exe documentation and add to vrelease SetTrays.exe Changes paper tray selection from legacy PCL to print on newer printer with different tray assignments SSpool.exe/.ini Serial input spooler and redirector programs used when capturing PCL from Parallel to Serial(USB) TIFF2PS.exe Converts TIFF images into a PostScript print stream.</i>	
<b>TIFFComp.exe</b>	Convert beforePCL and afterPCL with -7 -s Test suite	
<b>TPTSVC.dll</b>	<i>This new .dll provides access to .TPT-like StreamEdit functions from custom programs.</i>	

### **PROGRAMS REMOVED**

PCLXL32.DLL Moved the functionality and code from PCLXL32.dll into XLDLL.dll and PTC32.dll. This .dll is no longer needed.

### **V8.70b – 3/1/08 Maintenance release**

PCLCodes.exe	Added support for detecting the various ways to set duplexing in PCL XL files.	FHInc
<i>PCLXForm.exe</i>	<i>Added more functionality to barcoding functions for 3 of 9 barcodes.</i>	<i>FHInc</i>
PTC32.dll	Fixed a bug when searching for text within a raster object.	BestComp
PTC32.dll	HMI spacing from d/I font header used even if font selected by attrib., with conflicting HMI.	Input1
PTC32.dll	Modified font selection to give d/I bitmap fonts included in print stream a higher preference.	Boscom
PTC32.dll	Added support for detecting the various ways to set duplexing in PCL XL files.	FHInc
RUNCODE.PGT	Now shipping runcode.pgt's instead of runcode.ini's in order to avoid Anti-virus software that strips .ini's.	
TNXDump.dll	It now truncates anything after 1024 characters on one line of text for PCL with no linefeeds. Automail	
TRENDMICRO	FAQ to disable Trendmicro and other A/V software to avoid problems with InstallShield temp .rra files.	
XLDLL.dll	Added support for detecting the various ways to set duplexing in PCL XL files.	FHInc

### **V8.71 – 6/25/08 Maintenance release**

AcctUtil.dll	Acctutil now first looks for the runcode.pgt before it looks for the .ini version in script during the install.	
Acctutil.dll	Tests for any of our .exe's running and prompt to close before uninstalling.	
<i>FastPrint.exe</i>	<i>A fix in PTC32.ini solves a JIT indexing problem where FastPrint produced no output.</i>	
GUI's	Associated "PXL" with our GUI programs for View PCL.	
<i>HotDirZ.exe</i>	<i>Fixed interruption issue running on server as service.</i>	<i>PlainAns</i>
<i>PageCtr.exe</i>	<i>New program added to root folder used to query the page counts from their own applications.</i>	
PCLCodes	[ ESC & b 27 W ] "Periferal" Configuration misspelling change to "Peripheral" .	
PCLCodes	Added a new section to inventory the control codes like Formfeeds, Tabs, etc.	PUSHERM
PCLCodes	Added code to detect PJI that is not prefaced with a Universal Escape code.	SLData
PCLCodes	Added code to record the page offsets within a print stream if the pages are all in HPGL/2 code.	Relico
PCLSplit.exe	Made compatible with new JITIndexing, PclSplit temporarily turns JIT Indexing off now.	Linden
<i>PCLXForm.exe</i>	<i>Added new barcoding functions.</i>	<i>FHI</i>
<i>PCLXForm.exe</i>	<i>Fixed some unreported memory leaks that could affect high volume jobs.</i>	<i>FHI</i>
<i>PMM.dll</i>	<i>Added PMM.dll to root folder for ViewOnly.exe and other appls with compound indexing.</i>	<i>PMM/Philips</i>
PMon Config.ini	Made a minor modification.	Epson
PTC32.dll	Fixed some unreported memory leaks that could affect high volume jobs.	FHI
PTC32.dll	Enhanced support for Color palette setting.	TPSI
PTC32.dll	Fix \C:\Prod\PCL\data\verypdf\gl-chars - Add "ES" command.	
PTC32.dll	Fix \C:\Prod\PCL\data\verypdf\grid.pcl - Add "Grid pattern custom spacing".	
PTC32.dll	Improved parser to better detect when a blank page should be ejected.	
RCGEN.exe	Internal use only - Added a way to add comments to the .rcf for passing-thru to the runcode.ini that it creates.	
RCGEN.exe	Internal use only – fixed truncated long Company names.	
SFP2TTBM.dll	Fixed a bug in bitmap edge tracing case.	
<i>XForm.bat</i>	<i>Fixed icon group shortcut so that XForm.bat is launched in our &lt;target&gt; directory.</i>	
XPSWrite.dll	Initial release of API to XPSWrite.dll documentation.	

### **V8.71a –6/24/08 Maintenance release**

FILTER.exe	Added entry points for IBLTool.exe (non-released program) to access it.	
FILTR.dll	Added entry points for IBLTool.exe (non-released program) to access it.	
GUI .exe's	Search – "Extract Text → .tnx & .hix" does neither if the new JITIndexing=1. Code was added to turn this off.	
<i>PCLPrint.exe</i>	<i>Updated to exit with no errmsg when it's called to process a PCL with zero pages.</i>	<i>Pushor</i>
PTC32.dll	Added support to access the text in PJI comments. Including those inserted by the Port Monitor.	
PTC32.dll	Updated .hix indexing to better track font changes by pitch/pt. size on the 1 <sup>st</sup> page of custom PCL.	Pushor
PTC32.ini	Added " <b>PJCCommentsInTnx=1</b> " to turn-on support to access the text in PJI comments.	
TNXDmp.dll	Added support to access the text in PJI comments.	
TNXDump.exe	Added " <b>-nopji</b> " command line argument to support to access the text in PJI comments.	
TNXDumpG.exe	Added " <b>Suppress PJI Comments</b> " GUI option to access the text in PJI comments.	

### **V8.76 –9/27/08 Maintenance release**

\source	All source code was updated	
FILTER.exe/.dll	Added code to support adding PCL6 download bitmap font chars. to CDRS for building .amp files	IMS
GUI .exe's	Fixed code to turn-off JIT indexing during any search functions	
<i>PCLPrint.exe</i>	<i>Fixed code to fix a bug caused by Just-in-time (JIT)</i>	
<i>PCLPrint.exe</i>	<i>Fixed code to stop flagging a zero page PCL file as an error and exit quietly</i>	<i>Pushor</i>
<i>PCLXForm.exe</i>	<i>Added Config_Ascii_Bitmap_Page function – erase region optional parameters</i>	<i>III</i>
<i>PCLXForm.exe</i>	<i>Added Esc_Fmt_Barcode function to format a PCL escape code string to express a barcode</i>	<i>Strahm</i>

PCLXForm.exe	Added <b>Find_BMap_Postnet</b> function to locate a PostNet barcode on a in-memory page image	III
PCLXForm.exe	Added <b>Find_Char_Align_Ascii</b> function to locate character x, then y to extract text	III
PCLXForm.exe	Added <b>Find_Pattern_Align_Ascii</b> function to locate pattern registered with Set_Align_Pattern	III
PCLXForm.exe	Added <b>Find_Pattern_In_File</b> function to locate raster object pattern in file	IMS
PCLXForm.exe	Added <b>Fit_Raster_Rect</b> function to locate rect region and adjust edges to eliminate white space.	MDG
PCLXForm.exe	Added <b>Get_BMap_Top_Y_Mark</b> function to locate the first mark scanning down in the defined rect.	IMS
PCLXForm.exe	Added <b>Get_File_Length</b> function to get length of file in bytes.	Strahm
PCLXForm.exe	Added <b>MultiDest_Append</b> function to append file to batch indicated by index with pages for summary	Strahm
PCLXForm.exe	Added <b>MultiDest_Close</b> function to close a multi-dest session, appending trailer and adding summary	Strahm
PCLXForm.exe	Added <b>MultiDest_GenNumltems</b> function to return the number of items appended to batch.	Strahm
PCLXForm.exe	Added <b>MultiDest_Open</b> function to begin a multi-dest session starting with a header.	Strahm
PCLXForm.exe	Added <b>PREF_EXTRACT_PJL</b> to extract PJL comments in .TNX file for indexing/routing metadata	
PCLXForm.exe	Added <b>Scale</b> function to scale a page up or down.	MDG
PCLXForm.exe	Added <b>Set_Align_Pattern</b> function to set a pattern.	III
PCLXForm.exe	Added <b>Set_Job_String</b> function to set a job parameter within a job.	IMS
PCLXForm/PTC32	Added <b>AUXP=EPS, BMP and ALL</b> cmd line parameter to convert to EPS, BMP or both formats	LaserTec
PCLXForm/PTC32	Added <b>PREF_INTL_TERMINATE</b> preference to limit pages counted after arbitrary page range	NCP
PCLXForm/PTC32	Enhanced code to extract raster text from a page with mixed - fonts, point sizes and spacing	MDG
PTC32.dll	Added code to fix tracking of font changes only by pitch/pt size on pg 1 in HIX indexing	Pushor
PTC32.dll	Added code to support adding PCL6 download bitmap font chars. to CDRS for building .amp files	IMS
PTC32.dll	Added <b>PREF_INTL_PAGEORIENT_CCW</b> to rotate page counter-clockwise	
PTC32.dll	Fixed an issue where auto-rotation of the first character on a page did not rotate	Maxidom
PTC32.dll	Fixed obscure font selection and back spacing issues	Maxidom
PTC32.dll	Enhanced code to make PTC32.dll tolerant of CID data inconsistencies	Syntel
PTC32.dll/.ini	Added <b>PJLComments InTnx</b> preference in [Extraction Section] to reveal PJL comments in .TNX output	
PTC32.dll/.ini	Added <b>PREF_EXTRACT_PJL</b> function to extract PJL comments in .TNX file for indexing/routing metadata	
PTCNet.dll	Added an entry point <b>Dispose()</b> function to tolerate CID inconsistencies	Syntel
SFSFF132.dll	Fixed code to accommodate odd outline to outline reference within character cell	Maxidom
TNXDMP.dll	Added <b>PJLComments InTnx</b> preference in [Extraction Section] to reveal PJL comments in .TNX output	
TNXDUMP.exe	Added <b>-nopjl</b> command line argument to not reveal PJL comments in .TNX output	
TNXDUMPG.exe	Added <b>"Suppress PJL Comments"</b> check box to suppress PJL comments in .TNX output	

New Programs not included in the SDK, but available when required by application requirements:

<b>IMSSort.exe</b>	Created a custom PCL sort program	IMS
<b>PDF2PCL.exe</b>	BETA of a batch PDF file printing exe used to print to PCL/capture/streamedit/convert back to PDF (requires Acrobat Reader or Acrobat to be installed)	BigEye

### V8.77 -2/9/09 Maintenance release

#### ENHANCEMENTS:

64-bit PMon	Added a 64-bit Port Monitor.	
<b>Auto-Indexing</b>	Added auto-indexing to spool files passing through the Port Monitor.	
<b>HotDirZ.exe</b>	Watches several folders for different types of input.	
Img2PCL.exe	Added support for shrink-2-fit, rotations and x,y positioning	
Img2PDF/XPS.exe	Added support for shrink-2-fit, rotations and x,y positioning	
ImgCvt.dll	Added support for shrink-2-fit, rotations and x,y positioning	
<b>OMR/Barcodes</b>	Added functions to insert OMR marks or any kind of barcodes into PCL.	
<b>PCL3GUI</b>	Added support for output from medical, mobile and laboratory devices.	
PCLXForm .tpt	<b>New Function: Array_Op</b>	
PCLXForm.exe	PJL Streamediting to change folding and stapling options	Primoris
<b>PJL Comments</b>	Added ability to extract index text from PJL comments inserted by PMon1.	
PTC32.dll	Added PJL Streamediting to change folding and stapling options	Primoris
PTC32.dll	Added support for viewing/rendering RAW EMF image files	Syntel
PTV32.dll	Added support for viewing/rendering RAW EMF image files	Syntel
<b>PXL Text Extract</b>	Improved our exclusive ability to extract text from PCL6	
TTWL.sym	Added support for Windows 98 Latin-6 (Baltic) symbol set	Tomala

#### MODIFICATIONS:

PCLCodes.exe	Now opens with the file you Open With, instead of what was in PCLCODES.INI	
PTC32.dll	Fixed font selection and sizing issue	BoatUS
PTC32.dll	Added code to ignore Xerox %RXR job language	GBS
PCLXForm.exe	Streamediting to add OMR marks, sort documents and track page/document counts	MailCo
PTC32.dll	Fixed text metrics in footer	SharonCU
PTCNET.dll/.lib	Added Strong naming to .NET .DLL's	Syntel
XLDLL.dll	Added code to handle custom media size in millimeters correctly	Xerox
PTC32.dll	Added PREF_INTL_DSET_DIR_IS_SRC_DIR	

## V8.79 –5/26/09 Maintenance release

### PCL2TransPromo

Added many new PCLXForm functions for text extraction and stream editing. Due to demand from several industry leading service bureaus, PageTech has become the leader in the disassembly of high volume PCL print streams of bank statements with cancelled check images. Service bureaus and mailing houses then input the text and raster objects files that we provide into any third party output management system in order to re-engineer them into TransPromo documents with color, logos, OMR marks, Intelligent barcodes, etc.

#### ENHANCEMENTS:

<b>PCLnUp.exe</b>	Scales and merges multiple PCL pages on to one page.	
<b>Raw EMF View</b>	Import Raw EMF files for viewing.	Syntel
<b>SetTrays.exe</b>	Searches/replaces paper tray assignments in PCL.	
<b>SSpool.exe</b>	Serial input spooler and redirector programs used when capturing PCL from Parallel to Serial ports	
<b>TIFFComp.exe</b>	Compares TIFF pages created from PCL.	

#### MODIFICATIONS:

.TPT Script	Minor modification required due to 7.1 to 8.76 upgrade causing an errmsg	TMIC
Filter.exe	Added "-101" function to remap fonts using "mname=HL24GP" entries in the font.map file	Syntel
IMG2PCL.exe	Prints data on a second page	GWDS
IMGCVT.dll	Added code to read new 2PCL.ini rotation preference	GWDS
IMGCVT.exe	Added code to read new 2PCL.ini rotation preference	GWDS
PCLSPLIT.exe	(description to be provided in next release)	ITECH (10/7)
<i>PCLXForm.exe</i>	<i>(description to be provided in next release)</i>	<i>AMFed</i>
<i>PCLXForm.exe</i>	<i>(description to be provided in next release)</i>	<i>AMSI</i>
<i>PCLXForm.exe</i>	<i>(description to be provided in next release)</i>	<i>MDG</i>
<i>PCLXForm.exe</i>	<i>(description to be provided in next release)</i>	<i>Primoris (2/07)</i>
<i>PCLXForm.exe</i>	<i>PCL to vector PDF optimization</i>	<i>Personix (1/22)</i>
<i>PCLXForm.exe</i>	<i>(description to be provided in next release)</i>	<i>ABSData</i>
PDF/A	Modified PDF/A format	ReclInfo
PDFWrite.dll	PCL to vector PDF optimization	Personix (1/22)
PTC32.dll	(description to be provided in next release)	ABSData
PTC32.dll	(description to be provided in next release)	AMSI
PTC32.dll	(description to be provided in next release)	ITECH (10/7)
PTC32.dll	(description to be provided in next release)	LaserTec(10/10)
PTC32.dll	(description to be provided in next release)	MDG 10/8)
PTC32.dll	(description to be provided in next release)	SLData
PTC32.dll	Fixed a problem with blank pages	Personix (2/25)
PTC32.dll	PCL to vector PDF optimization	Personix (1/22)
PTC32.dll	PCL to vector PDF optimization	Primoris (2/07)
PTC32.dll	(description to be provided in next release)	AMFed (10/8)
PTC32.dll	Added code to OCR on more than one character mapping grid	PMSDirect
PTC32.dll	Added PREF_INTL_DSET_DIR_IS_SRC_DIR	
PTC32.dll	Added PREF_INTL_NOCLIPRASTER preference	Personix
PTC32.dll	Added support for Lexmark compression method 8	Personix
PTC32.dll	Added support for new composite character download scalable PCL6 fonts	Microdata
PTC32.dll	Optimized the way macros are converted into vector PDF files for ISIS Papyrus	Personix
PTC32.map	Added new parameters for remapping font calls when converting from PCL to RAW EMF	Syntel
<i>PTCNet.DLL</i>	<i>(description to be provided in next release)</i>	<i>QLoans</i>
SFPFF132.dll	(description to be provided in next release)	Personix (1/22)
<i>TaxPrint.exe</i>	<i>Fixed command line argument parsing</i>	<i>HillCountry</i>
TTEG.sym	Corrected mapping for the "pi" character	CERTH
XLDLL.dll	(description to be provided in next release)	Primoris (2/07)

New Programs not included in the SDK, but available when required by application requirements:

<b><i>RAW2PCL.exe</i></b>	<i>Added new RAW EMF to PCL conversion program</i>	<i>ABSData</i>
<b><i>DeleteFile.exe</i></b>	<i>Added a program to from a .tpt script to delete files</i>	<i>ABSData</i>

## V8.795 –10/21/09 Maintenance release

#### ENHANCEMENTS / MODIFICATIONS:

.\data\default.amp	Adapted to new code that was added to support PCL XL "scrambled" text.	
.\fonts\ttwe.sym	Fixed a character mapping error	D.velop
<i>.\hotdir\HotDirz.exe</i>	<i>Added code for a new client.</i>	<i>FMB/SC2</i>
<i>.\source</i>	<i>Updated several sample source, object and executable programs.</i>	
FastPrint.exe	Modified for a client	Kosmo
Filter.exe	Added more features.	SC2/Personix
Filtr.dll	Added more features.	SC2/Personix
<i>PCLPrint.exe</i>	<i>Modified for a client.</i>	
<i>PCLTool.exe</i>	<i>Fixed an error in the Calibration dialog.</i>	

*PCLView.exe* Fixed an error in the Calibration dialog.  
*PCLWorks.exe* Fixed an error in the Calibration dialog.  
*PCLXForm.exe* Added code for several new clients.  
PDFWrite.dll Fixed some code that generated faulty PDF/A files.  
PTC32.dll Added code for several new clients.  
*PTCNet.dll* Updated and added code for several new clients.  
SFTFF132.dll Added-in the FF1Codes.dat code.  
SFSFF132.dll Added-in the FF1Codes.dat and ALLCG.FS1 code.  
XLDLL.dll Made some minor modifications for anomalies found in PCL XL files from new drivers.

EGTS

*SC2/FMB/Personix*  
FMB  
FMB/Personix/ABS  
*Windstar/Filevsn*

Ceridian

**PROGRAMS REMOVED:**

ALLCG.FS1 Moved code into SFSFF132.dll – no longer needed as a separate file.  
FF1Codes.dat Moved code into SFTFF132.dll – no longer needed as a separate file.