Release Notes
3-Heights™ PDF Tools

Version 1.9

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1 Overview

The 3-Heights™ PDF tools represent the newest product line from PDF Tools AG. The 3-Heights™ PDF tools are available as programming libraries (APIs), command line tools and Windows Services. The tools allow for a wide variety of manipulation of PDF files including viewing, printing, extraction of information, conversion, validation, repairing, and optimization.

2 Technical Support

Please report problems by contacting our support department by mail:

pdfsupport@pdf-tools.com

3 How to Download

The 3-Heights™ PDF tools can be downloaded from the product description pages on our website. There is no charge for downloading evaluation versions (valid for a 30 day period).

http://www.pdf-tools.com/pdf/products-pdf-pdfa.aspx

4 System Requirements

All of the 3-Heights™ PDF tools are available for:

- Windows 7
- Windows Vista
- Windows XP
- Windows 2008
- Windows 2003
- Windows 2000

Some of the tools are also available for:

- IBM AIX
- Sun Solaris (2.7 and later)
- HP-UX 11.0 incl. IA64
- Free BSD
- Linux
- Mac OS X

Other platforms are available on request. Please refer to the individual product pages to obtain information on supported operating system platforms.

5　New Features to all Products

5.1　Enhancements to all 3-Heights™ Products

- A new OCR Server is now available to support distributed, scalable, and high performance OCR recognition. The OCR Server requires a separate plug-in which is distributed with the OCR enabled products such as the Image to PDF Converter, the PDF to PDF/A Converter and the PDF Document Converter Service. The OCR Server is required for all Service products since it provides multi-threaded access to the OCR function.

- The library for reading and writing TIFF files has been replaced by an own, high-performance implementation with improved support for all common TIFF classes. Notably, TIFFs with embedded JPEG streams (Compression 6, also known as 'old' JPEG) can be read and written. The library is used in the Image to PDF Converter, the PDF to Image Converter, the TIFF Producer, the PDF Extractor, the Viewer, the Printer and all other tools that read or write image files.

- The 'Professional' edition has been merged with the 'Standard' edition. This reduces the complexity of our offering. The following products are affected: PDF Viewer (Desktop and API), PDF Printer (Shell and API).

- Double precision calculations: All floating point variables and calculations have been changed from single to double precision in order to reduce floating point precision issues.

- Newly supported platforms: Solaris SPARC with gcc 3.4.6 runtime and minimum Solaris version 2.8 and HP UX 11.23 for Itanium (IA64).

5.2　Enhancements to the 3-Heights™ PDF Rendering Engine

- Stroke operations of path objects can now optionally be converted in equivalent fill operations in order to circumvent problems with some print devices.

- The rendering of a page can be controlled in such a way that only the annotations are rendered i.e. the underlying page content is omitted. Another mode is to enable the page content only and disable the form fields and annotations. This is used in applications where the page content is already printed on the paper, e.g. printing the form fields on a pre-printed form.

- The enabling and disabling of the black point compensation feature can now be controlled by the application when converting colors e.g. from CMYK to RGB.

- The rendering of transparency groups has been improved.

- The tolerance used in detecting hair lines has been increased.

6   New Features to Specific Products

6.1   3-Heights™ Image to PDF Converter

- New switch 'ow': This switch instructs the converter to optimize the output file for fast web-viewing (linearization).

- New switch 't': When using this switch with the img2img shell tool the samples of an input image in a CMYK color space are converted to samples of the output image in an RGB color space.

- New property 'Linearize': This property instructs the component to optimize the output file for fast web-viewing (linearization).

- Changed property names 'ContinuousCompression', 'XDPI' and 'YDPI': The properties have been renamed in order to fix the wrong spelling.

- Changed property names 'IsPremultipliedAlpha', 'ImageQuality', 'PageNo', 'OCREngineCount' and 'OCREngine': The properties have been renamed for consistency reasons with similar interfaces.

6.2   3-Heights™ PDF to Image Converter

- New switch 'j6': This switch is meaningful in conjunction with TIFF output files using JPEG compression. With this switch you can instruct the output codec to use the compression method 6 (known as 'old' JPEG compression) whereas the existing switch 'j' selects the preferred compression method 7.

- New switch 'of': When using this switch embedded fonts are replaced by fonts installed in the operating system. Only non-symbolic fonts that have an equal name are replaced. The default behavior is that all embedded fonts are used.

- New switch 'q': This switch has also been added to the pdf2pdfimg shell tool as it already exists in the pdf2img shell tool.

- New properties 'HasColor', 'HasAnnotations', 'HasPopups': These properties are used to query more information about the page content in order to be able to control the rendering process depending on this information.

- New method 'SetWatermarkImage': With this method a watermark can be placed on each page of the output mage.

- New property 'RepeatWatermark': If this property is set to TRUE then the watermark image is repeated as a pattern covering the whole page.

- Changed property names 'ImageQuality' and 'RotateMode': The properties have been renamed for consistency reasons with similar interfaces.

6.3   3-Heights™ PDF to PDF/A Converter

- New method 'ConvertMem': This method has been added to the Java interface to convert documents residing in memory buffers.

6.4   3-Heights™ PDF Extractor

- Properties 'Creator', 'Producer', 'DeviceColorant', 'BreakWords' and 'SMask': These properties have been added to the Java interface as they already exist in the other interfaces.

- Changed property names 'HighIndex', 'ColorantName' and 'ErrorCode': The properties have been renamed for consistency reasons with similar interfaces.

6.5   3-Heights™ PDF Optimizer

- Changed property name 'ImageQuality': The property has been renamed for consistency reasons with similar interfaces.

6.6   3-Heights™ OCR Add-on

- The 'ABBYY' OCR plug-in has been enhanced to support the recognition of font names in addition to font sizes and styles.

6.7   3-Heights™ PDF Printer

- Merger of 'Professional' with 'Standard' edition: The following functions are now available in the Standard edition: Grouping print jobs, reading command line from disk file, tweaking of line widths, redefinition of the print job's name, setting the priority of a print job, printing in reverse page order, applying watermarks and printing common image formats such as TIFF, JPEG, PNG, BMP, GIF and many more.

- New switch 'oa': With this switch only form fields and annotations are printed without the underlying page content.

- New switch 'oc': This switch disables the black point compensation feature when converting colors e.g. from CMYK to RGB.

- New switch 'os': This switch converts strokes to filled paths.

- New switch 'cms': This switch allows specifying the name of the Color Management System (CMS) engine used to convert colors from one color space to another. Valid names are 'none', 'neugebauer', 'msicm' which is the default on Windows and 'lcms' which is the default on Unix systems. The name can also be a file name containing a set of customized Neugebauer parameters.

- New option flag 'eOptionDisableBPC': When setting this option flag the black point compensation feature when converting colors e.g. from CMYK to RGB is disabled.

- New option flag 'eOptionFillStrokes': When setting this option flag strokes are converted to filled paths.

- New option flag 'DisableAnnots': When setting this option flag form fields and annotations are not printed.

- New option flag 'DisableContent': When setting this option flag only form fields and annotations are printed without the underlying page content.

- Changed property name 'PageNo': The property has been renamed for consistency reasons with similar interfaces.

6.8   3-Heights™ PDF Producer and TIFF Producer

- New port configuration property 'Prompt for file name': If this property is set, i.e. the checkbox is marked, then a 'Save As' dialog pops up as the topmost window. The default file save directory is set to the port's output directory. If it is changed by the user it is remembered when the next box pops up. Furthermore the user can abort the print job when pressing the 'Cancel' button.

- Redundant fonts and bitmaps: The PDF Producer now automatically optimizes redundant objects in order to save space in the resulting file.

- Support for transparent bitmaps: The support for commonly used raster operation sequences to render transparent bitmaps has been further improved. This enhancement helps to avoid using the back buffer in environments where speed and memory usage is critical.

- Support for left-to-right and bottom-to-top texts: Special cases of texts in Arabic, Hebrew and languages with writing directions different to English are now supported too.

- Improved glyph positioning: The shape and position of glyphs are often optimized for screen resolution by writing systems and therefore occur misplaced when converting to PDF. A support has been included to simulate the shape and position of the glyphs as if they appeared on the screen.

6.9   3-Heights™ PDF Security Tool

- New switch 'cn': This the main switch of a group of switches which are used to add a digital signature to a PDF file. It is used to specify the name of the signer's certificate (subject). If it is missing then the other switches in the group are ignored.

- New switch 'cr': This switch is used in conjunction with the 'cn' switch and is used to specify an arbitrary reason string.

- New switches 'ar' and 'ap': If a signature is to get a visible appearance on the document, the 'ar' switch is used to specify the bounding rectangle and the 'ap' switch the page of the signature's visible appearance. If the 'ar' switch is missing then the signature is invisible. If the 'ap' switch is missing then the last page is used.

- New switches 'al', 'acf', 'acs', 'af1', 'af2', 'at1' and 'at2': By means of these switches the signature's default appearance can be redefined. The 'al' switch defines the line with, the 'acf' and 'acs' switches the fill and stroke color, the 'af1', 'af2', 'at1' and 'at2' switches the fonts and texts of the title (1) and subtitle (2) texts.

- New method 'SignSignatureField': Adds a cryptographic signature to a previously prepared and empty signature field. The empty signature field can be prepared using the method 'AddSignatureField'. These methods only make sense if they are called in different steps. If digital signature needs to be added in a single step then the method 'AddSignature' must be used.

6.10 3-Heights™ PDF Validator

- New method 'OpenMem': This method has been added to the Java interface to validate documents residing in memory buffers.

6.11 3-Heights™ PDF Viewer

- Merger of 'Professional' with 'Standard' edition: The following functions are now available in the Standard edition: Displaying multiple pages per window, placing a mark rectangle, printing, and viewing common image formats such as TIFF, JPEG, PNG, BMP, GIF and many more.

- Changed viewer option 'eViewerOptionPages': This option now enables or disables the thumbnail view pane. The former page list view pane has been removed.

- New property 'PageAtPos': This property is used to query the page number at a specific relative viewport position (0: top, 1: bottom).

- Changed property name 'PageNo': The property has been renamed for consistency reasons with similar interfaces.

6.12 3-Heights™ Document Converter Service

- New service-based optional component for converting documents from email folders (Mail Folder Service).

- Optional installation of PDF and TIFF drivers. This permits co-existent use of the 3-Heights™ PDF Producer and the Document Converter Service on the same platform.

- The Enterprise OCR Server Plug-in is packaged with the product to support scalable, high performance OCR recognition.

- New "Advanced Options" tab on the shell pop-up user interface.

- Document type specific control options:

    o Powerpoint: OutputType can be specified

    o Email: Hader template, HTML styles and date format can be configured

    o Common: Selective disabling of applications, and selective configuration of document file extensions

- Improved service startup and logging.

- Watched Folder Service: Several new options have been implemented, notably to return packages of converted document parts (e.g. to store the message text and any attachments as separate PDF or TIFF files in an output folder).

- Added support for OpenOffice.org documents.

- Added support for RAR archives.

- Allow for optionally linearized output PDFs for fast web viewing.

- Options to control the location of signatures.

- Additional OCR options for improved OCR tuning.

- New sections covering trouble-shooting of Document Converter Service installations.

- The MSI installer has been enhanced to support installations on 64-Bit platforms (Windows Server 2003 and 2008).

7   About PDF Tools AG

PDF Tools AG (www.pdf-tools.com) is a world leader in PDF (Portable Document Format) software, delivering reliable PDF products to international customers in all market segments.

PDF Tools AG provides server-based software products designed specifically for developers, integrators, consultants, customizing specialists and IT-departments. Thousands of companies worldwide use our products directly and hundreds of thousands of users benefit from the technology indirectly via a global network of OEM partners. The tools can be easily embedded into application programs and are available for a multitude of operating system platforms.