



Release Notes

3-Heights™ PDF Tools

Version 2.0

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1 Overview

The 3-Heights™ PDF tools represent the most recent 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, digitally signing, 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 2000
- Windows XP
- Windows Vista
- Windows 7
- Windows Server 2003
- Windows Server 2003 R2
- Windows Server 2008
- Windows Server 2008 R2

Most 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.

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5 New Products

5.1 3-Heights™ PDF to EMF Converter

The 3-Heights™ PDF to EMF Converter API is a programmable component to create EMF (Windows Enhanced Metafile) streams. The interface is based on a comprehensible object model, which reflects the specifics of this format such as the fact that fonts cannot be embedded in an EMF stream. With a set of options the component can be instructed how to handle embedded fonts e.g. whether embedded fonts shall be used or not and how to replace them with installed fonts.

6 New Features to all Products

The following enhancements affect all components and solutions unless otherwise noted.

6.1 Enhancements to all 3-Heights™ Products

- Support for long file names for Windows Services: On Windows operating systems the standard file length is limited to 260 (MAX_PATH) characters. To overcome this limitation the Windows operating system offers a long file name syntax ("\\?\..."). All file names, which are passed to the operating system, are now automatically converted to this syntax if their length exceeds 260 characters. Temporary files are an exception to this rule since their names are short enough.
- Locale support for shell tools: On Unix operating systems the file names are usually encoded using the locale setting of the system. In order to correctly interpret the encoding of file names all shell tools start their execution by setting the correct locale. This does not apply for APIs since this call is in the responsibility of the application program which uses the API.
- Enhanced decryption support: Files with a standard security handler revision 5 can now be decrypted. Support for encryption will be implemented in a future release.
- Extended signature handler interface: The interface for custom signature handlers has been extended to support sessions. The session concept has been introduced to enable bulk digital signing with cryptographic tokens. Furthermore, the interface contains a detailed description of the signature creation and verification return codes.
- Some image codes have been improved. The BMP codec can now read true color bitmaps with alpha channel. The JPEG and TIFF codes can write images with palettes.

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- The processing of date strings has been improved to support a wider range of date notations (deviations from the standard).
- Improved detection of invalid ICC streams: If an embedded color profile stream contains fatal errors, such as missing bytes, the stream is ignored.
- Improved correction of invalid XMP metadata streams.
- Improved stream processing such as the handling of stream objects, filters and the re-encoding and copying of streams. This reduces the memory usage, executes significantly faster and allows to process very large streams.

6.2 Enhancements to the 3-Heights™ PDF Rendering Engine

The following enhancements affect all components which use the rendering engine such as PDF Viewer, PDF Printer, PDF to Image Converter, PDF to EMF Converter unless stated otherwise.

- New renderer option 'eOptionPrint': With this option set the appearance of a PDF file corresponds to print output regardless whether it is actually printed or not. The option is set by default in the PDF Printer and clear in all other components.
- New renderer option 'eOptionOverprint': With this option interprets the overprint ('OP', 'op') and overprint mode ('OPM') operators in a PDF content stream. Otherwise these operators are ignored. Use this option with caution since overprint simulation is not fully supported. In particular overprint simulation of separation and device-n colors does not produce the expected results.
- New enumeration 'TPDFUnsupportedFeature': This enumeration is only used for the 3-Heights™ PDF to Image Converter R2. See description below for more information.
- New font matching strategy: The font matcher has been enhanced, specially to deal with situations where no temporary fonts may be used. The new behavior is described in the corresponding product manuals.
- fonts.ini syntax: As part of the new font matching strategy, the syntax in the configuration file for the font mapping has changed and now supports font styles.

7 New Features to Specific Products

7.1 3-Heights™ AFP to TIFF Conversion Utility

- No functional changes.

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7.2 3-Heights™ Font to PDF Utility

- No functional changes.

7.3 3-Heights™ Image to PDF Converter

- New switch 'ocx': This switch instructs the converter to export the recognized text to a file.
- New property 'SetMetadataStream' (C Interface only): This property embeds a XMP metadata stream into the output file.
- New property 'Recompress': This property in Codec interface controls the re-compression of JPEG and JPEG2000 streams.
- New properties 'ResolutionDPI' and 'ThresholdDPI': These two properties control the re-sampling of imported images.

7.4 3-Heights™ Image Compare Utility

- The tool can now compare images containing color palettes.

7.5 3-Heights™ PDF Compare Utility

- New switch 'pw': With this switch an open password can be specified.
- New switch 'S': This switch compares streams before applying decode filters as opposed to the existing switch 's'.

7.6 3-Heights™ PDF Creator

- No functional changes.

7.7 3-Heights™ Document Converter Service

- Various additional options for controlling the PDF conversion out of several Microsoft Office applications (Visio, Word, PowerPoint, Excel)
- Support for Office 2010
- Support for dealing with long path names, including automatic shortening
- Enhanced plug-in interface permitting the transfer of custom data from a conversion client to the plug-in

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7.8 3-Heights™ PDF to Image Converter R2

- New property 'UnsupportedFeatures': The component now provides a means to inquire which unsupported features have been encountered during rendering. The property is set by the component after each 'RenderPage' call.
- New property 'Version' (C interface only): The property returns the current version of the software.

7.9 3-Heights™ PDF to Image Converter

- Enhanced switch 'cs': The switch now receives a 'CMYK with K only' color space code (9).
- New property 'Version': The property returns the current version of the software (C interface only).

7.10 3-Heights™ PDF to PDF/A Converter

- New switch 'wpu': This switch allows for specifying a web proxy server URL.
- New switch 'wpc': This switch is used in conjunction with 'wpu' and provides the credentials to access the web proxy server.
- Enhanced error code: A new error code (9) has been introduced to separate metadata errors from general conversion errors (4).
- New property 'Linearize': This property instructs the converter to optimize the output file for fast web viewing (linearization).
- New property 'ProxyURL': This property allows for specifying a web proxy server URL.
- New property 'ProxyCredentials': This property is used in conjunction with 'ProxyURL' and provides the credentials to access the web proxy server.
- New property 'SetMetadataStream': This property has been added to embed a XMP metadata stream into the output file.
- Enhanced property 'OCREmbedImages': The 'get' method of the property has been implemented.
- Improved conversion of missing glyphs that preserves both the visual appearance of the page and the extractable text.
- Enhanced strategy to repair the encoding of a font such that the encoding of 'space' does not change. This is important for the 'word spacing' parameter to not change its effect.

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7.11 3-Heights™ PDF Extractor

- New switch 'of': This switch controls the word separation algorithm of the text extraction tool. The parameter is interpreted as a factor, which is multiplied by the width of the space character. If the distance between two characters is greater than the computed result it marks a word boundary.

7.12 3-Heights™ PDF Optimizer

- New switch 'oc': This switch is used to clip images to their visible area in order to save space. Only unpacked images (8 bits per component) are processed.
- New switch 'm': The switch instructs the optimizer to merge embedded font subsets which have the same original font. Use this switch with caution because this operation may not be safe.
- Modified switch 's': The switch only subsets fonts and does not merge the subsets anymore, since this function can now be performed using the 'm' switch.

7.13 3-Heights™ OCR Add-on

- A new OCR plug-in is available to support the ABBYY FineReader 10 engine. The plug-in is distributed with the OCR enabled products such as the Image to PDF Converter, PDF to PDF/A Converter and PDF Document Converter.
- The OCR Server now supports both FineReader 8 and FineReader 10
- The OCR Service can be used both from 32 and 64 bit applications

7.14 3-Heights™ PDF Producer

- New banding support: The TIFF Producer allows to create very large pages, e.g. A0 with 600 DPI in color or larger, using the device driver's banding feature which creates the page's bitmap in strips.
- New Compression Methods 'JBIG2' and 'JPEG200': The TIFF Producer now offers these new compression methods. Please note that not all viewer programs can display files using these compression methods. All 3-Heights™ components and solutions, however, can process these files.
- Improved application compatibility: The PDF Producer has been improved to support application specific GDI calls (raster operation sequences) which are used by applications such as Microsoft Visio and others.
- Office Add-In: no changes

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7.15 3-Heights™ PDF Printer

- New switch 'ot0': This switch inhibits the conversion of embedded Type1 fonts to TrueType fonts. It is mainly used for diagnostic purposes.
- New method 'Escape': This method is used to pass a binary (or text) string to the printer driver. It is directly inserted in the printer data stream without any interpretation as its content depends on the specific printer language.

7.16 3-Heights™ PDF Repair

- No functional changes.

7.17 3-Heights™ PDF Security

- New switch 'wpu': This switch allows for specifying a web proxy server URL.
- New switch 'wpc': This switch is used in conjunction with 'wpu' and provides the credentials to access the web proxy server.
- New property 'ProxyURL': This property allows for specifying a web proxy server URL.
- New property 'ProxyCredentials': This property is used in conjunction with 'ProxyURL' and provides the credentials to access the web proxy server.
- New methods 'BeginSession' and 'EndSession': These methods support bulk digital signing by keeping the session to the security device (HSM, Token or Cryptographic Provider) open. For backwards compatibility the use of these methods is optional. If omitted an individual session is used for each signature operation.
- New method 'SetMetadata': This property allows for adding XMP metadata to the document from a file.
- New method 'GetMetadata': This method retrieves the XMP metadata and copies it into a memory block.
- New methods 'GetSignerFingerprint' and 'GetTimeStampFingerprint' (C interface only): With these methods a SHA-1 hash of the signer's certificate and the certificate of the time stamp server respectively can be obtained in order to quickly verify the certificates.
- New method 'FreeObject' (C interface only): This method releases resources used by a signature object.

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- Enhanced method 'ValidateSignature': The component now supports the verification of signatures including time stamps using cryptographic tokens and hardware security modules (HSM) through their PKCS#11 interface.
- New utility 'cticert': This utility program can be used to list, import and export certificates from a PKCS#11 cryptographic token.
- New platform support: The component has been successfully tested on various Linux and SunOS operating systems.
- New interoperability support: The following cryptographic token interface (PKCS#11) products have been successfully tested: SafeNet Protect Server, SafeNet Luna, SafeNet Authentication Client, IBM OpenCrypTokI, CryptoVision, and Siemens CardOS.

7.18 3-Heights™ PDF Merge / Split

- No functional changes.

7.19 3-Heights™ PDF Studio Utility

- No functional changes.

7.20 3-Heights™ PDF Thumbnail Utility

- No functional changes.

7.21 3-Heights™ PDF Validator

- New switch 'rl': This switch sets the reporting level, i.e. it filters the categories 'information', 'warning', 'error' of reports depending on the level (0..2).
- The reporting of missing glyphs is more detailed and indicates whether the character code is missing in the encoding of the font or in the glyph in the font program.

7.22 3-Heights™ Java Document Viewer

- No functional changes.

7.23 3-Heights™ PDF Viewer

- New sub-menu item 'Highlighting' in menu 'Search': This item enables or disables the search highlighting function.

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- New accelerators 'Ctrl-Shift-G': With this accelerator the previous occurrence of the search string can be found.
- New sub-menu item 'Convert to TrueType' in menu 'Font options': This item enables or disables the conversion of embedded fonts to the TrueType format before using the font for rendering. This item is mainly used for diagnostic purposes.
- Changed sub-menu item 'Do not use embedded fonts' in menu 'Font options': This item enables or disables the replacement of embedded fonts with installed fonts. This item is mainly used for diagnostic purposes.
- New feature 'Highlighting': Search for multiple words within a document and highlight the search results. For each word a different color can be chosen.

8 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.