



Release Notes

3-Heights™ and Classic PDF Tools

Version 4.3

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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, extracting of information, conversion, digitally signing, validation, repairing, and optimization.

The Classic PDF Tools (formerly known as GLANCE Tools) represent the original product line from PDF Tools AG. Similar to the 3-Heights™ product line the Classic PDF Tools are available as programming libraries (APIs) and command line shell versions but not Windows services. The tools are packaged in two products, the Command Line Suite and the Prep Tool Suite.

1.1 How to Download the Trial Software

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>

1.2 Technical Support

Please report problems by contacting our support team by mail:

pdfsupport@pdf-tools.com

1.3 System Requirements

All of the tools are available for:

- Windows 2000
- Windows XP
- Windows Vista
- Windows 7
- Windows 8
- Windows Server 2003
- Windows Server 2003 R2
- Windows Server 2008
- Windows Server 2008 R2
- Windows Server 2012

Windows 9.x and NT 4 are no longer supported by this version.

Some tools are only available on Windows platforms. These are:

- PDF Producer
- Document Converter
- The components which are based on the rendering engine: PDF Viewer, PDF Printer, PDF to Image Converter, PDF to EMF Converter

Most of the tools, however, are also available for the following platforms, and will run also on newer versions of the same OS family:

- IBM AIX 5.1
- Sun Solaris / SPARC 5.8
- HP-UX 11i incl. IA64
- SunSolaris / Intel 5.10
- Linux 2.4 (RedHat)
- Mac OS X 10.4 x86 / x64
- Linux 2.6 (SuSE)

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

1.4 Compiler Versions

The release kits are generated with the following compiler versions for C/C++:

Platform	C/C++
Windows	MSVC 8.0
MAC OS/X 10.5 x86	gcc 4.0.1
SuSE Linux/Intel	gcc 4.1.2
Redhat Linux/Intel	gcc 3.2.2
FreeBSD	gcc 3.4.2
Sun Solaris 2.8/SPARC	gcc 3.4.6
Sun Solaris 2.8/Intel	gcc 3.4.6
IBM AIX 5.1	gcc 4.2.4
HP UX 11.i (11.23)	gcc 4.1.2
HP UX 11.23 IA64	gcc 4.6.0

For Java, version 1.2 is required as a minimum except for the Java Document Viewer which requires version 1.5.

2 New Features to all Products

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

2.1 Enhancements to all 3-Heights™ Products

- The Document Converter now can embed XML data conforming to the “ZUGFeRD” standard.
- Some tools can now embed barcodes that have been recognized by the OCR engine into the documents XMP metadata.
- All tools that are reading PDF files now support the new decryption methods specified in PDF 2.0 include passwords with UTF-16 encoding.
- The creation of output intents in the various tools has been harmonized such that CMYK output intents are preferred over RGB output intents.
- The TIFF tools now support mixed raster content (MRC) compressed files according to RFC 2301.
- Some tools can detect XFA documents that contain no PDF content and return an error, if XFA is not supported.
- For signatures the SHA-256 hashing algorithm is used, if supported by the cryptographic provider.
- The interface to the signature handler plug-ins has been extended.
- The base libraries to read PDF files and its embedded data streams such as font programs etc. have been further hardened to accept a wider range of badly formed data structures.
- The Icms software library (www.littlecms.com) has been upgraded to version 2.5.
- The zlib software library (www.zlib.org) has been upgraded to version 1.2.8.
- The LuraTech JBIG2 software library has been upgraded to version 1.11.
- The LuraTech JPEG 2000 software library has been upgraded to version 2.1.00.12.

2.2 Enhancements to all Classic Products

- The libtiff software library (www.libtiff.org) has been upgraded to version 4.0.3

3 New Features to Specific Products

3.1 3-Heights™ AFP to TIFF Conversion Utility

- No functional changes.

3.2 3-Heights™ CryptTokI Certificate Utility

- New switch `t`: Mark the imported certificate as trusted.
- New switch `lb`: Set the label of the imported certificate.
- New switch `ls`: List all available slots (tokens) of the provider. In combination with the switch `l`, list all certificates stored in the listed tokens.
- New switch `c`: Clear objects in store. The following objects can be selected to be cleared: Expired certificates, certificates with private keys, all certificates, all objects.

3.3 3-Heights™ Document Assembler

- No functional changes

3.4 3-Heights™ Document Converter

- The Document Converter now can embed XML data conforming to the "ZUGFeRD" standard.
- New support for converting PDF documents with unrendered content (XFA forms) using Adobe Reader
- Configuration recommendations updated for newer MS Office versions
- New setting "UseHtmlBody" for converting Outlook MSG documents to support a work-around for problems using Outlook's PrintOut method
- Support for optionally extracting and converting documents embedded in MS Office documents ("EmbeddedDocuments" setting)
- Improvement for recovering from blocked / degraded worker sessions ("WorkerTimeLimit" setting)
- Support for creating PDF/A-3 compliant documents with embeddings ("PDF.Embed", "EMBEDSOURCE" settings, "ADD", "ATT.Name", "ATT.Description")

- Support for embedding barcode information recognized during OCR processing into the XMP metadata of the output PDF ("PDF.EMBEDBARCODES" option)
- Support for handling encrypted ZIP, RAR and PDF files
- Support for controlling the dithering and rendering modes for PDF to TIFF conversion ("TIFF.RENDERINGMODE", "TIFF.DITHERINGMODE" settings)
- Additional troubleshooting tips (related to web service, conversions via Internet Explorer and Outlook)
- New attachments information line in e-mail header; may be customized via the header template configuration.

3.5 3-Heights™ Font to PDF Utility

- The API now accepts file names with UTF-16 characters.

3.6 3-Heights™ Image Compare Utility

- The orientation of the compared images must be the same.

3.7 3-Heights™ Image to PDF Converter

- New switch `cs`: Specify ICC profile for device-specific color spaces.
- Changed switch `oi`: Specify ICC profile for output intent.
- New switch `ocbc`: Embed recognized barcodes in XMP metadata.
- New property `OCRDeskewImage`: If true, the embedded image is rotated such that the text aligned horizontally.
- New method `SetColorSpaceProfile`: see switch `cs`.
- New property `OCREmbedBarcodes`: see switch `ocbc`.
- Change method `SetOutputIntent`: see switch `oi`.

3.8 3-Heights™ Java Document Viewer

- The text extraction has been improved.

3.9 3-Heights™ JPM to PDF Converter

- No functional changes.

3.10 3-Heights™ OCR Enterprise Add-on

- No functional changes.

3.11 3-Heights™ PDF Analysis & Repair

- No functional changes.

3.12 3-Heights™ PDF Annotation API

- No functional changes.

3.13 3-Heights™ PDF Compare Utility

- New switch 'd': Specify the accuracy of real numbers.
- Improved switch 'i': The volatile information groups 'creation' and 'modification' can now be separately exempted.
- The verbose output has been improved.

3.14 3-Heights™ PDF Creator Library

- No functional changes.

3.15 3-Heights™ PDF Extract

- New property 'ObjNumber' in interface 'IPDFImage': Get the identification number of the image object.
- New property 'TranslateSymbolic': If true, translates characters of symbolic fonts in the range 0xF000 to 0xF0FF to the range 0x0000 to 0x00FF.

3.16 3-Heights™ PDF Merge Split

- New property 'MergeOptionalContent': If true, the equal optional content groups are merged into one instead of just being copied.
- New method 'CopyOptionalContent': Copy the optional content information to the output document.

3.17 3-Heights™ PDF Optimization

- No functional changes.

3.18 3-Heights™ PDF Page Split Tool

- No functional changes.

3.19 3-Heights™ PDF Printer

- The shell tool now returns an error if an XFA document needs rendering.

3.20 3-Heights™ PDF Producer

- The push buttons in the 'SaveAs' dialog have been graphically enhanced.
- The TIFF Producer has now a new setting to specify the JPEG compression quality.

3.21 3-Heights™ PDF Security

- New switch 'cci': Set the signer's contact information.
- New property 'ContactInfo': Set the signer's contact information.
- New property 'Email': Extract the signer's email address.
- New property 'ErrorMessage': Get a text message describing the cause of the failure.
- New property 'SessionProperty': Provider specific session property.
- New method 'TestSession': Test if the session is still alive.

3.22 3-Heights™ PDF Studio Utility

- No functional changes.

3.23 3-Heights™ PDF Thumbnail Utility

- No functional changes.

3.24 3-Heights™ PDF to EMF Converter

- The behavior of the font extraction has been changed. The collection of embedded fonts is built-up upon the rendering of a page. The collection is initially empty. After each rendered page the embedded fonts which are used on that page are added to the collection.

3.25 3-Heights™ PDF to Image Converter

- New API component PdfOcrAPI.dll.
- New switch 'ocbc' in pdfocr.exe: Embed recognized barcodes in XMP metadata.

- New switch `oi` in pdf2pdfimg.exe: Make the text invisible.
- The shell tool now returns an error if an XFA document needs rendering.

3.26 3-Heights™ PDF to Image Converter R2

- No functional changes.

3.27 3-Heights™ PDF to PDF/A Converter

- New switch `oca`: Rotate page according to rotation detected by OCR engine.
- New switch `ocbc`: Embed recognized barcodes in XMP metadata.
- New switch `cci`: Set the signer's contact information.
- New switch `nc`: Disable the cache for CRL and OCSP responses.
- New switch `cef`: Try to convert embedded PDF Documents (PDF/A-3 only).
- New methods `BeginSession` and `EndSession`: Establish a session to the cryptographic provider (e.g. HSM).
- New property `SignerContactInfo`: Set the signer's contact information.
- New property `OCRDeskewImage`: If true, the image is rotated such that the text is aligned horizontally.
- New property `OCREmbedBarcodes`: If true, embed the recognized barcodes in the XMP metadata.
- New property `OCRRotatePage`: If true, rotate the page according to the recognized orientation.

3.28 3-Heights™ PDF Uncompress Utility

- No functional changes.

3.29 3-Heights™ PDF Validator

- New property `NoTempFiles`: If true, temporary files are not created.

3.30 3-Heights™ PDF Viewer

- New viewer option `eOptionAnnotations`: Enable pane for displaying annotations
- The viewer includes a Japanese localization.
- Optionally protocols the user's changes to annotations in an annotation edit history.

- The dialog reacts instantly to changes of the lock status of annotations.
- Optionally grant more fine grained annotation edit permissions to users.

3.31 3-Heights™ Text to PDF Converter

- No functional changes.

3.32 3-Heights™ TIFF Tool Suite

- The compression and the OCR functions have been strictly separated and uniquely assigned to the tools 'tiffcompress.exe' and 'tiffocr.exe'.
- The TIFF tools now support mixed raster content (MRC) compressed files according to RFC 2301.
- Enhanced switch 'q' in 'tiffcompress.exe': The option has been extended by the lab, CMYK and MRC background photometric attribute.
- Enhanced switch 'sd' in 'tiffcompress.exe': The binarization threshold is now computed automatically by default.
- New switch 'ocl' in 'tiffocr.exe': Set the language for the OCR engine.

3.33 3-Heights™ XMP Generator

- No functional changes.

3.34 Classic Command Line Suite

- pdcat:
 - improved robustness dealing with long lines in control files
- pdform:
 - option to list form fields with more detailed information
 - option to add combo box fields
- pdstamp:
 - support for centered alignment of images
- pdwebl:
 - support to use tab in place of equal sign for separating match/URL pairs

3.35 Classic PDF Prep Tool Suite

- Support for retrieving more detailed information about form fields.

4 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.