



# Release Notes

## 3-Heights™ PDF Tools

### Version 1.41

---

Contact: [pdfsupport@pdf-tools.com](mailto:pdfsupport@pdf-tools.com)

Owner: **PDF Tools AG**  
Geerenstrasse 33  
CH-8185 Winkel  
Switzerland  
[www.pdf-tools.com](http://www.pdf-tools.com)

## Table of Contents

|          |   |           |
|----------|---|-----------|
| <b>1</b> | <b>Overview</b> .....                                       | <b>3</b>  |
| <b>2</b> | <b>Technical Support</b> .....                              | <b>3</b>  |
| <b>3</b> | <b>How to Download</b> .....                                | <b>3</b>  |
| <b>4</b> | <b>System Requirements</b> .....                            | <b>3</b>  |
| <b>5</b> | <b>New Products - Windows Services</b> .....                | <b>4</b>  |
| 5.1      | 3-Heights™ Image to PDF Converter Service.....              | 4         |
| 5.2      | 3-Heights™ PDF to Image Converter Service.....              | 4         |
| 5.3      | 3-Heights™ PDF Analysis & Repair Service.....               | 4         |
| 5.4      | 3-Heights™ PDF Optimization Service .....                   | 4         |
| 5.5      | 3-Heights™ PDF Security Service .....                       | 4         |
| <b>6</b> | <b>New Features to all Products</b> .....                   | <b>5</b>  |
| <b>7</b> | <b>New Features to Specific Products</b> .....              | <b>7</b>  |
| 7.1      | 3-Heights™ Image to PDF Converters .....                    | 7         |
| 7.2      | 3-Heights™ PDF Extract Tool .....                           | 7         |
| 7.3      | 3-Heights™ PDF Optimization Tool .....                      | 8         |
| 7.4      | 3-Heights™ PDF Printer, Printer Pro and Printer Server..... | 8         |
| 7.5      | 3-Heights™ PDF Renderer API .....                           | 9         |
| 7.6      | 3-Heights™ PDF Repair Tool .....                            | 9         |
| 7.7      | 3-Heights™ PDF Security Tool.....                           | 10        |
| 7.8      | 3-Heights™ PDF to Image Converter.....                      | 10        |
| 7.9      | 3-Heights™ PDF Viewer and Viewer Pro.....                   | 10        |
| <b>8</b> | <b>About PDF Tools AG</b> .....                             | <b>11</b> |

November 21, 2005

---

## 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, server tools and end-user products. The tools allow for a wide variety of manipulation of PDF files including viewing, printing, exporting information, conversion, repair and optimization.

## 2 Technical Support

Please report problems by contacting our support department by mail:

[pdfsupport@pdf-tools.com](mailto: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 limit).

<http://www.pdf-tools.com/asp/products.asp>

## 4 System Requirements

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

- Windows NT
- Windows XP
- Windows 2000
- Windows 2003
- Windows 9x / ME

Some of the tools are also available for:

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

Please refer to the ordering information on the individual product pages to determine which platform each tool is available for.

## **5 New Products - Windows Services**

The following 3-Heights™ PDF Windows Services (Windows NT Services) have been introduced with Release 1.41. These tools all work with a "watched folder" principle. The watched folder can be configured in a control file, and processing options can be set. When PDF documents are moved into the watched folders (e.g. through "Drag & Drop"), they are automatically processed according to the options selected and the resulting files are stored in output folders.

### ***5.1 3-Heights™ Image to PDF Converter Service***

The 3-Heights™ Image to PDF Converter Service converts raster images into PDF documents. The converter can also convert image files into image files of a different format, and split and merge multi-page image files.

### ***5.2 3-Heights™ PDF to Image Converter Service***

The 3-Heights™ PDF to Image Converter Service converts PDF documents into raster images. The converter can also convert PDF files into raster PDF files, to prevent text editing.

### ***5.3 3-Heights™ PDF Analysis & Repair Service***

The 3-Heights™ PDF Analysis & Repair Service can analyse PDF documents, repair corrupt PDF files, and recover information from irreparable corrupt PDF files.

### ***5.4 3-Heights™ PDF Optimization Service***

The 3-Heights™ PDF Optimization Service optimizes PDF files for fast web viewing, high quality printing, or to reduce the file size. Specific areas being optimized include image compression, removing or replacing fonts, removing redundant information, color conversion, and linearization.

### ***5.5 3-Heights™ PDF Security Service***

The 3-Heights™ PDF Security Tool can be used to decrypt and encrypt PDF documents with user and owner passwords, and to set permissions on PDF documents.

## 6 New Features to all Products

The following enhancement and corrections have been applied to the PDF Kernel or the PDF Rendering Engine, and are valid for all of the 3-Heights™ PDF Tools:

- Interfaces of individual products streamlined according to family-wide rules. All COM, C and Java interfaces have now equivalent methods and properties. Furthermore, equal property and method names should have the same meaning.
- Add eOptionOutlines to TPDFRenderingOption.
- Add support for images with alpha channels.
- Added a back buffer to support some transparency for images.
- Added OpenMem(), CreateImageInMemory(), CreateInMemory(), GetPdf(), GetImage() methods.
- Added option -pg to define page ranges.
- Added page number and page count placeholders to watermark templates.
- Added quality property for JPEG and JBIG2 images.
- Added support for file:// protocol.
- Added support for vertical writing CID fonts.
- Allow for UNC names \\server\service as watched folders.
- Call Close() in destructor and Open() methods in order to free resources (COM, C) if an explicit Close() call is missing.
- Enhance compatibility on NT4.
- Support text extraction of symbolic non-Unicode fonts.
- Provide a GetErrorMessage() function.
- Handle embedded CMaps.
- Provide new ZapfDingbats TrueType font which is now a symbol font.
- Implement dash patterns for GDI.
- Provide "Symbol" font that provides apple glyph.
- Add 'Default' entry to fonts.ini configuration file.
- Improve standard security handler in order to process non encrypted metadata.
- Improve font processing with respect to malformed font programs.
- Improved handling of CFF and TTF fonts.
- Improved inline documentation (COM).
- Improved parameter checking for C interfaces.

November 21, 2005

---

- Add resource management for pens and brushes
- Linearization function enabled for evaluation version.
- Removed the extra size parameter in Java OpenMem() methods
- Replaced unknown glyph with standard encoding glyph in intrinsic encoding.
- Java documentation improved.
- Support all possible orientation modes for images.
- Support banding for alpha blending.
- Support for check box annotations.
- Support multi-channel images with PNG predictors.
- Support searching within page ranges.
- Support transparent highlight annotations.
- Updated samples due to interface changes for Extract , PDF to Image, Image to PDF, Printer, Optimizer, Security, Split-Merge (Java)
- ZapfDingbats no longer need to be installed in the system fonts directory.

## 7 New Features to Specific Products

### 7.1 *3-Heights™ Image to PDF Converters*

- Image to PDF API: Added CreateInMemory() and GetImage() methods.
- Image to PDF API: Added methods Img2ImgCreateObject, Img2ImgDestroyObject.
- Image to PDF API: Added new property InfoEntry.
- Image to PDF API: Added OpenMem() method.
- Image to PDF API: Added PdfCodecCreateObject(), PdfCodecDestroyObject(), PdfCodecClose() methods to codec interface
- Image to PDF API: Changed parameters of Img2ImgCopyPage()
- Image to PDF API: Changed method Img2ImgSetMonochromeColorCompression() to Img2ImgSetContinuousCompression().
- Image to PDF API: Changed SetBitonalCompression(), SetIndexedCompression(), SetMonochromeColorCompression() from method to properties.
- Image to PDF API: CopyPage() method added.
- Image to PDF API: Deleted Img2PdfCreateCodec(), Img2ImgCreateInputCodec(), Img2ImgCreateOutputCodec()
- Image to PDF API: Deleted method SetQuality(), added property Quality.
- Image to PDF API: New COM interface for Img2Img.
- Image to PDF API: Renamed CopyPage() to CopyPagesFromFile().
- Image to PDF: Skip input files that can't be opened.
- Image to PDF: Support resolution for JPEG embedded Tiff's.
- Image to Image Service: Options -m and -s revised.

### 7.2 *3-Heights™ PDF Extract Tool*

- Add new method ConvertToBitonal() and support bitonal images in ChangeOrientation().
- PDF Extract API: Add Colorant property to ColorSpace and DeviceColorant to Page object.
- PDF Extract API: Add GetAlternates() property to the Image Interface.
- PDF Extract API: Defined properties NextXPos, NextYPos and TextMatrix as deprecated.
- PDF Extract API: Add property Flags to content interfaces
- PDF Extract API: Add various new properties to the document interface.
- PDF Extract API: Added StoreInMemory(), GetImage() methods.
- PDF Extract API: Added new property TextLabel.

November 21, 2005

---

- PDF Extract API: New method GetResolution() which returns a value equal to the PDF Optimization API.
- PDF Extract API: New properties IsBitonal, IsMonochrome, IsColor for images and the latter two for color spaces.
- PDF Extract API: Removed FirstChar, LastChar properties.
- PDF Extract API: The interfaces have been extended to retrieve outlines, destinations, annotations and alternate images.
- PDF Extract Shell: Full functionality of the API realized in the shell tool (pdfextract).

### **7.3 3-Heights™ PDF Optimization Tool**

- PDF Optimization API: Added method SaveAs(), revised methods ListImages(), ListFonts().
- PDF Optimization API: AnalyzePages() removed.
- PDF Optimization Tool: Add page number to list of images.
- PDF Optimization Tool: Added separate DPI properties for each image group.
- PDF Optimization Tool: Added new function RenameFont().
- PDF Optimization Tool: Added OpenMem(), SaveInMemory(), GetPdf() methods.
- PDF Optimization Tool: Do multi-pass analysis in order to support optimal font sub-setting / merging.
- PDF Optimization Tool: If strip threads is enabled, then drop beads too.
- PDF Optimization Tool: Support merging of Type1 and CFF font subsets.
- PDF Optimization Tool: Updated usage of compression values.

### **7.4 3-Heights™ PDF Printer, Printer Pro and Printer Server**

- PDF Printer API: Added BandSize property.
- PDF Printer API: BeginDocument() returns false if a printer is physically not available.
- PDF Printer API: Property RenderingMode added.
- PDF Printer API: Revised properties SizeX, SizeY.
- PDF Printer API: Use VARIANTS as array return parameters in order to support scripting.
- PDF Printer Service: Add -a for Pause and -o for Continue commands.
- PDF Printer Service: Add -m option for rendering mode.
- PDF Printer Service: Add options: -e (EMF mode), -ot (TrueType), -o1 (Type1).
- PDF Printer Service: Add options -o9, -ot.
- PDF Printer Service: Jobs aren't deleted when the service is restarted.

November 21, 2005

---

- PDF Printer Service: Frees all font resources after every document to reduce memory consumption and GDI resources.
- PDF Printer Service: Implement new Start / Stop / Shutdown semantics, e.g. finish job when stopping.
- PDF Printer Service: Improved error logging.
- PDF Printer Service: Only auto-delete files if the printing succeeded.
- PDF Printer Service: Remove -t (Transparency) option.
- PDF Printer Service: Replace job number by last access time.
- PDF Printer Service: Support multiple documents per job via text file.
- PDF Printer Service: Usage of option -q added.
- PDF Printer Shell/Service : Added -od option to disable back buffer.
- PDF Printer Shell/Service : Added option -m for rendering mode.
- PDF Printer: Added/renamed options: -m to -e (EMF mode), -tt to -ot (TrueType), -t1 to -o1 (Type1).
- PDF Printer: Removed option -t (Transparency).
- PDF Printer: Added property PaperSize, added methods GetPaperLength(), GetPaperWidth().
- PDF Printer: Implement %ns (short file name) placeholder for watermarks.
- PDF Printer: Increased default band size to 0x10000.

## **7.5 3-Heights™ PDF Renderer API**

- PDF Renderer: Added OpenMem() method.
- PDF Renderer: Add renderer mode as a parameter to the DrawOutline() method.
- PDF Renderer: AddWatermarkText() with set font has been removed.

## **7.6 3-Heights™ PDF Repair Tool**

- PDF Repair API: Added new method GetDiagnosis(), and property ErrorLevel.
- PDF Repair API: Added OpenMem(), SaveInMemory(), GetPdf() methods.
- PDF Repair API: Analyze embedded font programs.
- PDF Repair API: Java interface added.
- PDF Repair API: Optimized analysis and repair process by keeping track of the status and diagnosis results.
- PDF Repair API: Removed parameter RecoverImages from PdfRepairRepair() method.
- PDF Repair Desktop: Added error message if file cannot be created.
- PDF Repair Desktop: Added severity codes to the error list.

November 21, 2005

---

- PDF Repair Desktop: Don't close current file if open dialog is aborted.
- PDF Repair Shell: Added new option -a for analysis only.
- PDF Repair Shell: Added new option -l for log file.
- PDF Repair Shell: Added return codes according to ErrorLevel and add explanation to usage.
- PDF Repair: Added diagnosis codes.
- PDF Repair: Repair corruptions of compressed streams.
- PDF Repair: Repair embedded font programs.
- PDF Repair: Repair page content streams.

### **7.7 3-Heights™ PDF Security Tool**

- PDF Security API: Added OpenMem(), SaveInMemory(), GetPdf() methods.
- PDF Security API: Java interface added.

### **7.8 3-Heights™ PDF to Image Converter**

- PDF to Image API: Added methods CreateImageInMemory(), GetImage(), OpenMem().
- PDF to Image API: Add constructor with file name to Java interface.
- PDF to Image API: Added Class F TIFF support.
- PDF to Image Shell: Added/renamed options: -m to -e (EMF mode), -tt to -ot (TrueType), -t1 to -o1 (Type1).
- PDF to Image Shell: Removed option -t (Transparency).
- PDF to Image: Add separate executable for PDF to PDF-Image.
- PDF to Image: Improve checking of file extension in order to distinct between input and output file.
- PDF to Image: -m option now accepts the rendering mode as a parameter.

### **7.9 3-Heights™ PDF Viewer and Viewer Pro**

- PDF Viewer API: Add return result to PrintPage() method.
- PDF Viewer API: Initialize PanX / PanY to zero if document is not open.
- PDF Viewer Pro API: Added SaveAs() method.
- PDF Viewer: Add ViewerOptions incl. get / set property methods.
- PDF Viewer: Added layout mode support with 1 and 2 pages per window.
- PDF Viewer: Added scroll up / down / left / right keys and allow navigation in tree view as well.

November 21, 2005

---

- PDF Viewer: Allow for hiding scroll bars.
- PDF Viewer: Call FirePage() if the first visible page changes.
- PDF Viewer: Disable navigation window unless a document requests it.
- PDF Viewer: Draw borders and spaces between pages.
- PDF Viewer: Enable / Disable navigation pane depending on viewer options.
- PDF Viewer: Improved print dialog (disable selection, support page numbers).
- PDF Viewer: Invalidate view upon a Close() command.
- PDF Viewer: Support up-side down rectangles with link annotations.
- PDF Viewer: Support web links.
- PDF Viewer: Switch automatically to page layout if coordinates exceed 16 bits on Win9x/ME.

## 8 About PDF Tools AG

PDF Tools AG ([www.pdf-tools.com](http://www.pdf-tools.com)) is a world leader in PDF (Portable Document Format) programming technology, 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 tens of thousands more use the technology indirectly via a growing network of OEM partners. The tools can be easily embedded into application programs and are available for a multitude of operating system platforms.