

# **Release Notes**3-Heights<sup>™</sup> and Classic PDF Tools

Version 4.12.26.12



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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 represent the original product line from PDF Tools AG. Similar to the 3-Heights<sup>™</sup> 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 four products, the Command Line Suite, the Batch Stamp Tool, the Form Filling Tool and the Prep Tool Suite.

### 1.1 How to Download the Trial Software

The 3-Heights<sup>™</sup> PDF tools can be downloaded from the product description pages on <a href="https://www.pdf-tools.com/">https://www.pdf-tools.com/</a>. Com/. There is no charge for downloading product kits and evaluation license keys (valid for a 30 day period).

# 1.2 Technical Support

Please report problems by contacting our support team by mail: pdfsupport@pdf-tools.com

# 1.3 Operating Systems

**Note:** Version 4.12 will be the last supported release for platforms HP-UX, IBM AIX, Oracle Solaris and FreeBSD.

Most of the products are available for the following operating systems:

- Windows 7, 8, 8.1, 10 32 and 64 bit
- Windows Server 2008, 2008 R2, 2012, 2012 R2, 2016 32 and 64 bit
- HP-UX 11i and later PA-RISC2.0 32 bit
- HP-UX 11i and later ia64 (Itanium) 64 bit
- IBM AIX 6.1 and later 64 bit
- Linux 2.6 32 and 64 bit
- Oracle Solaris 2.8 and later, SPARC and Intel
- FreeBSD 4.7 and later (32 bit) or FreeBSD 9.3 and later (64 bit, on request)
- macOS 10.4 and later 32 and 64 bit

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

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

Some GDI-based tools have been ported to the new rendering engine which is available on all platforms. These tools have the suffix R2 in their names such as the PDF-to-Image Converter R2.

Other platforms are available on request. Please refer to the individual product information on the website or in the respective manual 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	Compiler	Library
Windows	MSVC 14.0	toolset v141_xp
macOS 10.5 x86	gcc 4.0.1	glibc 1.0.0
Linux Intel	gcc 4.1.2 gcc 4.7	glibc 2.5 glibc 2.22
FreeBSD Intel/x64	gcc 4.1.2	glibc 2.3
Oracle Solaris 5.10/SPARC	gcc 3.4.6	glibc 1.2.10
Oracle Solaris 5.10/Intel	gcc 3.4.6	glibc 1.2.10
IBM AIX 6.1	gcc 4.2.4	glibc 2.3
HP UX 11.i (11.23)	gcc 4.1.2	glibc 2.3
HP UX 11.23 IA64	gcc 4.6.0	glibc 2.3
Raspian 7/Linux 3.18 ARMv7	gcc 4.6.3	glibc 2.14.1

### 1.5 Runtime Environment

The Windows variants of the components have been compiled with Visual Studio 2015. The C++ based components are statically linked so there is no need for a redistributable package.

The C++ code has been compiled and linked using the v141\_xp toolset. Although, the software may run on Windows XP systems we only provide support for operating systems which are listed under system requirements.

.NET based solutions and desktop applications such as the 3-Heights™ Document Converter, the 3-Heights™ Document Assembler and the 3-Heights™ PDF Viewer, are compiled with version 4.5.2 of the .NET Framework. Although the code has been developed using C#, these components may require a C++ redistributable package as they are combined with native C++ code.

For .NET components (API), version 2.0 of the .NET Framework is required.

For Java components (API), version 1.6 is required as minimum runtime version.

# **2 New Features to Classic Products**

- **New** support for AES-256 encryption according to PDF 2.0 (revision 6, replaces deprecated revision 5).
- Improved creation of web links

# 2.1 Classic PDF Batch Stamp Tool

**Note:** Version 4.12 will be the last supported release for the Classic PDF Batch Stamp Tool.

Improved detection of input corruptions and error handling.

# 2.2 Classic PDF Prep Tool Suite

• **Improved** passing of byte array parameter for linearization in COM interface.

### 2.3 Classic Command Line Suite

No functional changes.

# 2.4 Classic Form Filling Tool

**Note:** Version 4.12 will be the last supported release for the Classic Form Filling Tool.

No functional changes.

# 3 New Features to 3-Heights™ Products

Some of the documented changes below may be preceded by a marker that specifies the interface technologies the change applies to. E.g. [C, Java] applies to the C and the Java interface.

### 3.1 3-Heights™ AFP to TIFF Conversion Utility

No functional changes.

# 3.2 3-Heights™ Certificate Store Utility for PKCS#11

No functional changes.

# 3.3 3-Heights™ Document Converter

- New HTTP proxy setting in the GUI license manager.
- Introduced license feature Enterprise.
- Digital Signatures
  - New support to sign OCSP requests, if required by the OCSP service.
  - New support for OCSP requests over HTTPS.
  - Changed acceptance criteria for OCSP responses that specify no validity interval (missing nextUpdate field, which is uncommon). Previously a validity interval of 24 hours has been used, now 5 minutes due to Adobe® Acrobat® compatibility.
- Improved email header template processing with new support for displaying importance and sensitivity information
- **Improved** HTML optimization with regard to download of external images
- Improved HTML optimization to disable IE compatibility mode and permit use of HTML5 features
- Improved repair functionality for irregular HTML content in email bodies
- Improved logging (daily rotation, output buffering)
- **Improved** conversion and merging of PDF 2.0 documents
- **New** support for factur-x embedding
- **New** support for creating time stamp signatures
- **New** option FlattenFormFields to flatten PDF form fields on conversion
- New options AlternateText and LanguageTag for use with image to PDF conversions
- Improved worker start procedure (disconnect unrelated RDP sessions to overcome session limit)
- Improved documentation (Document Converter related Windows registry keys and policy settings)

### 3.3.1 Patches

Note that the version number of the initial "final release" is 4.12.26.3.

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.

- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

### Patch 4.12.26.5

- Fixed communication with HTTP servers that don't support keep-alive for OCSP, time-stamps and signature services.
- Improved repair of corrupt content streams.

#### Patch 4.12.26.6

- Improved code for verifying PDF/A conformance of converted documents
- **Improved** code for dealing with mail attachments having unknown type

#### Patch 4.12.26.7

Improved preprocessing of DOCX files: safely remove external style references (fixes certain line spacing issues)

#### Patch 4.12.26.8

Fixed automated installation using msiexec (configuration and License Manager)

### Patch 4.12.26.9

Improved stack usage reading large Type1C font programs.

# 3.4 3-Heights™ Font to PDF Utility

■ **New** HTTP proxy setting in the GUI license manager.

### 3.4.1 Patches

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.5 3-Heights™ Image Compare Utility

No functional changes.

# 3.6 3-Heights™ Image to PDF Converter

- Improved reading and recovery of corrupt TIFF images.
- New HTTP proxy setting in the GUI license manager.
- New OCR plugin "abbyy12" for the ABBYY FineReader 12 engine.

### API Img2PdfAPI

### Interface Img2Pdf

Changed behavior, method SetPageSize disables AdjustPage.

### Shell img2pdf

■ **Changed** behavior, option set page dimension - sp disables option adjust page -a.

### Service Img2PdfSvr

■ **Changed** behavior, option set page dimension - sp disables option adjust page -a.

### 3.6.1 Patches

Note that the version number of the initial "final release" is 4.12.26.3.

### Patch 4.12.26.4

- **Improved** error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.7 3-Heights™ OCR Enterprise Add-on

New OCR plugin "abbyy12" for the ABBYY FineReader 12 engine.

# Plugin service

New HTTP proxy setting in the GUI license manager.

### Client configuration file ocrserver.ini

■ **Changed** default value of key NonBlockingTimeout from 1 to 5.

### Plugin abbyy12

New OCR plugin to support the ABBYY FineReader 12 engine.

No functional changes.

### Plugin abbyy11

No functional changes.

### Plugin abbyy10

No functional changes.

### 3.7.1 Patches

Note that the version number of the initial "final release" is 4.12.26.3.

### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.8 3-Heights™ PDF Analysis & Repair

New HTTP proxy setting in the GUI license manager.

# **API** PdfRepairAPI

No functional changes.

### Shell pdfrepair

No functional changes.

### Service PdfRepairSvr

No functional changes.

### 3.8.1 Patches

Note that the version number of the initial "final release" is 4.12.26.3.

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.

- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.9 3-Heights™ PDF Compare Utility

No functional changes.

# 3.10 3-Heights™ PDF Document Assembler

**Note:** Version 4.12 will be the last supported release for the 3-Heights™ PDF Document Assembler.

- **New** HTTP proxy setting in the GUI license manager.
- Introduced license feature Optimization

### **3.10.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

#### Patch 4.12.26.11

**Fixed** a crash when attempting to open the PDF Quick Merge tool and display an error message instead.

# 3.11 3-Heights™ PDF Extract

New HTTP proxy setting in the GUI license manager.

### **API PdfExtractAPI**

Improved performance when extracting resources for certain documents.

### **Shell pdfextract**

■ Improved extraction performance when listing resources with - r for certain documents.

### **3.11.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

### 3.12 3-Heights™ PDF Merge Split

- New support for AES-256 encryption according to PDF 2.0 (revision 6, replaces deprecated revision 5).
- New HTTP proxy setting in the GUI license manager.

### API PdfSplMrgAPI

No functional changes.

### Shell pdfsplmrg

- **New** option -owa to automatically choose whether to linearize the output document or not.
- New options -o, -u, -p for encrypting output PDFs with a user password and/or an owner password and specifying permission flags.

### Shell pdfsplitpage

No functional changes.

### **3.12.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

### Patch 4.12.26.4

- **Improved** error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.13 3-Heights™ PDF OCR

- **New** HTTP proxy setting in the GUI license manager.
- Introduced license features Service, Ocr, and Barcode.

- Improved image ocr mode to cache OCR text of images. Images that occur on multiple pages must be OCR processed once only.
- New specialized OCR plugin "barcodes" to recognize barcodes and QR codes without an additional OCR engine.
- **New** OCR plugin "abbyy12" for the ABBYY FineReader 12 engine.
- Improved memory consumption of product.
- New detection of OCR text that is under images.
- Improved ocr result processing, notably the accuracy of associating OCR text to existing text on page.

### **API PdfOcrAPI**

New PageOcrMode AddResults.

### Shell pdfocr

■ **New** parameter addResults for page ocr mode -opm.

# 3.14 3-Heights™ PDF Optimizer

- **New** support for AES-256 encryption according to PDF 2.0 (revision 6, replaces deprecated revision 5).
- **New** HTTP proxy setting in the GUI license manager.
- Introduced license features Optimize and Color.
- Improved MRC functionality supports images with differing resolution in horizontal and vertical direction.
- Improved file size reduction by using object streams for annotations and form fields by default.
- Improved runtime for certain document types.

### **API** PdfOptimizeAPI

- [.NET, C, COM, Java, PHP] New property AutoLinearize to automatically choose whether to linearize the output document or not.
- [.NET, C, COM, Java, PHP] Changed property Profile: In the TPDFOptimizationProfile.eOptimizationProfileWeb optimization profile, linearization (Linearize property) is substituted by auto linearization (AutoLinearize property).
- Changed values of the error codes PDF E RICHTEXT and PDF W RICHTEXT.

### **Shell** pdfoptimize

- New option owa to automatically choose whether to linearize the output document or not.
- **Changed** option -pr: In the web optimization profile, linearization (-ow) is substituted by auto linearization (-owa).

### Service PdfOptimizeSvr

- New option -owa to automatically choose whether to linearize the output document or not.
- Changed option -pr: In the web optimization profile, linearization (-ow) is substituted by auto linearization (-owa).

### **3.14.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- **Improved** removal of structure information for corrupt documents.
- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

#### Patch 4.12.26.5

- Fixed an image re-compression issue for certain images with an indexed color space with DeviceCMYK base color space.
- Improved repair of corrupt content streams.

#### Patch 4.12.26.8

- Fixed a problem that can occur with color complexity reduction of image's soft masks.
- [PHP] **Fixed** internal representation of enum type TPDFComprAttempt.

### Patch 4.12.26.9

**Fixed** graphic distortion for certain types of XObjects.

Improved stack usage reading large Type1C font programs.

# 3.15 3-Heights™ PDF Printer

- Improved reading and recovery of corrupt TIFF images.
- New HTTP proxy setting in the GUI license manager.
- **Improved** the performance when printing image masks in accurate mode.

### **API PrinterOCX**

No functional changes.

### **Shell pdprint**

No functional changes.

### Service PdfPrintSvr

No functional changes.

### 3.15.1 Patches

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

### Patch 4.12.26.5

- Fixed an issue with text of duplicate embedded font programs if the option eOptionUseUnicodes is used.
- Fixed an issue with PostScript limitations on dash patterns.

### Patch 4.12.26.7

Improved PostScript injection to not generate paths that are not visible because of clipping.

#### Patch 4.12.26.9

Improved stack usage reading large Type1C font programs.

# 3.16 3-Heights™ PDF Producer

Note: Version 4.12 will be the last supported release for the 3-Heights™ PDF Producer.

- New support for AES-256 encryption according to PDF 2.0 (revision 6, replaces deprecated revision 5).
- **New** HTTP proxy setting in the GUI license manager.

### 3.16.1 Patches

Note that the version number of the initial "final release" is 4.12.26.3.

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.17 3-Heights™ PDF Security

- New support for AES-256 encryption according to PDF 2.0 (revision 6, replaces deprecated revision 5).
- Improved reading and recovery of corrupt TIFF images.
- **New** HTTP proxy setting in the GUI license manager.
- Introduced license features Signature and Stamping.
- Digital Signatures
  - **New** support to sign OCSP requests, if required by the OCSP service.
  - New support for OCSP requests over HTTPS.
  - Changed acceptance criteria for OCSP responses that specify no validity interval (missing nextUpdate field, which is uncommon). Previously a validity interval of 24 hours has been used, now 5 minutes due to Adobe® Acrobat® compatibility.

### **API PdfSecureAPI**

 [.NET, C, COM, Java, PHP] New property AutoLinearize to automatically choose whether to linearize the output document or not.

### Shell pdfsecure

■ **New** option -owa to automatically choose whether to linearize the output document or not.

### Service PdfSecureSvr

New option - owa to automatically choose whether to linearize the output document or not.

### **3.17.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

- Improved creation of DocMDP signatures. Now corrupt annotations of the input document are repaired, so that Acrobat can verify the signature.
- Improved generation and validation of signature form field names to prevent conflict with other field types.
- **Fixed** communication with HTTP servers that don't support keep-alive for OCSP, time-stamps and signature services.

# 3.18 3-Heights™ PDF Studio Utility

• **New** feature: The content of pages and forms/groups can be listed as content elements with their parameters.

# 3.19 3-Heights™ PDF to EMF Converter

**Note:** Version 4.12 will be the last supported release for the 3-Heights™ PDF to FMF Converter.

■ **New** HTTP proxy setting in the GUI license manager.

### **3.19.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.20 3-Heights™ PDF to Image Converter

- **New** HTTP proxy setting in the GUI license manager.
- Improved the rendering quality of small text using Type3 fonts (bitmap fonts).
- Improved the quality of low-pass filtered images, if the default Gauss algorithm is used. Note that for creating bitonal output images, the option of b is recommended.
- Improved the rendering speed for documents that have resources with circular references.

### API Pdf2ImgR2API

No functional changes.

# Service Pdf2ImgSvrR2

No functional changes.

### 3.20.1 Patches

Note that the version number of the initial "final release" is 4.12.26.3.

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.

- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

### Patch 4.12.26.9

Improved stack usage reading large Type1C font programs.

# 3.21 3-Heights™ PDF to PDF/A Converter

- New HTTP proxy setting in the GUI license manager.
- Introduced license feature Signature.
- Digital Signatures
  - New support to sign OCSP requests, if required by the OCSP service.
  - New support for OCSP requests over HTTPS.
  - Changed acceptance criteria for OCSP responses that specify no validity interval (missing nextUpdate field, which is uncommon). Previously a validity interval of 24 hours has been used, now 5 minutes due to Adobe® Acrobat® compatibility.
- **New** support for Factur-X / ZUGFeRD 2.0 hybrid electronic invoices.
- **New** OCR plugin "abbyy12" for the ABBYY FineReader 12 engine.
- Changed behavior when adding additional font directories: The default directories are now always considered.
- Improved detection of corrupt embedded fonts, DCT streams and CMap encodings.

### API Pdf2PdfAPI

#### Interface Pdf2Pdf

- **New** property ForceEmbeddingOfCMaps to force the embedding of predefined CMaps.
- Changed property TryConvertEmbPDF to only process files whose MIME Type is PDF.
- [PHP] **New** method convertMem.

### Shell pdf2pdf

Changed option - cef to only process files whose MIME Type is PDF.

### Service Pdf2PdfSvr

No functional changes.

### **3.21.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

- **Improved** removal of digital signatures to reliably remove all.
- Improved error messages for failed HTTP connections in various situations (including license manager).

- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

#### Patch 4.12.26.5

- Fixed communication with HTTP servers that don't support keep-alive for OCSP, time-stamps and signature services
- Improved repair of corrupt content streams.

#### Patch 4.12.26.6

- **Fixed** rare problem with restore of text rendering mode after conversion adjustments.
- Improved conversion of special color spaces of inline images.
- FixedModDate parameter in Methods AddAssociatedFile and AddAssociatedFileMem.

#### Patch 4.12.26.9

Improved stack usage reading large Type1C font programs.

#### Patch 4.12.26.10

Fixed a crash that could occur when converting a document with embedded files on platforms other than Windows.

# 3.22 3-Heights™ PDF Toolbox API

- **New** support for AES-256 encryption according to PDF 2.0 (revision 6, replaces deprecated revision 5).
- **New** HTTP proxy setting in the GUI license manager.
- Introduced license features Assembly, Creation, Extraction, Annotation, and Modification.
- [.NET] Corrected enum CopyOption: Removed wrongly introduced element CopyOptionalContent-groups and changed values of all subsequent elements.
- [.NET] New enum elements CopyAssociatedFiles, MergeOCGs, and SeparateAcroForms in enum CopyOption.
- [Java] New enum elements COPY\_ASSOCIATED\_FILES, MERGE\_OCGS, and SEPERATE\_ACROFORMS in enum CopyOption.
- [.NET, Java] Changed behavior of property getters to signal errors instead of just returning default values.
- [.NET, C, Java] New interface ImageMask for images that are used as stencil masks.
- [.NET, C, Java] Deprecated interface Form (superseded by Group).
- [.NET, C, Java] **New** interface Group for transparency group resources.
- [.NET, C, Java] New struct TransparencyParams that groups transparency related parameters.
- [.NET, C, Java] New enum ColorSpaceType that denotes the type of a color space.
- [.NET, C, Java] **New** struct FillParams that groups together fill parameters for paths and text.
- New feature: Page content extraction and modification through the following new interface elements:
  - [.NET, C, Java] New interface ContentExtractor.
  - [.NET, C, Java] New enum UngroupingSet.
  - [.NET, C, Java] **New** interface TextFragment.
  - [.NET, C, Java] **New** interface ContentElement.

- [.NET, C, Java] **New** interface TextElement.
- [.NET, C, Java] **New** interface GroupElement.
- [.NET, C, Java] New interface PathElement.
- [.NET, C, Java] **New** interface ImageElement.
- [.NET, C, Java] **New** interface ImageMaskElement.
- [.NET, C, Java] New interface ShadingElement.

### **Interface Document**

- [.NET, C, Java] Deprecated method CreateForm (superseded by CreateGroup).
- [.NET, C, Java] **New** method CreateGroup to create a new transparency group resource.
- [.NET, C, Java] New method CreateImageMask to create a new stencil mask resource.
- [.NET, C, Java] Deprecated method CopyPageAsForm (superseded by CopyPageAsGroup).
- [.NET, C, Java] New method CopyPageAsGroup to create a transparency group resource from an input page.
- [.NET, C, Java] New method CopyContentElement to copy an input content element to an output document.

### **Interface ColorSpace**

■ [.NET, C, Java] **New** property Type.

### **Interface** Transformation

- [.NET, C, Java] New copy constructor.
- [.NET, C, Java] **New** method Invert.
- [.NET, C, Java] **New** method TransformPoint.

### Interface ContentGenerator

- [.NET, C, Java] Deprecated method PaintForm (superseded by PaintGroup).
- [.NET, C, Java] New method PaintGroup to place a transparency group resource onto the output content.
- [.NET, C, Java] **Changed** method PaintImageMask: The type of the image to be painted as image mask is changed from Image to ImageMask.
- [.NET, C, Java] New method AppendContentElement to place a copied input content element onto the output content.

### Interface Paint

- [.NET, C, Java] New property ColorSpace.
- [.NET, C, Java] **New** property Color.
- [.NET, C, Java] **New** property Transparency.

### **Interface Image**

[.NET, C, Java] Deprecated property IsMask (superseded by separate ImageMask interface).

### **Interface Text**

[.NET, C, Java] New iterator interface for extracting TextFragments.

### **3.22.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

#### Patch 4.12.26.7

Fixed extracted position of empty text elements.

### Patch 4.12.26.8

Improved PDF viewer compatibility for certain generated fonts.

# 3.23 3-Heights™ PDF Uncompress Utility

### 3.23.1 **Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.24 3-Heights™ PDF Validator

- **New** HTTP proxy setting in the GUI license manager.
- Introduced license feature Custom.
- Custom Validation Profiles

- **New** key MaxPageSize in section Pages to disallow pages exceeding the specified size in any dimension.
- New key RequirePageResources in section Pages to test if pages contain an explicitly associated resource dictionary.
- New key Embedding, EmbeddingExcFonts, and EmbeddingExcFont(i) in section Fonts to test the embedding of fonts.
- **Changed** validation of certain numbers: Use lax validation according to the PDF Association's TechNote 0010 for certain numbers that have no effect on the visual appearance of the document.
- Improved validation performance, e.g. when reporting many errors or analyzing ICC profiles.
- Improved detection of corrupt DCT streams that might cause interoperability issues.

### **APIPdfValidatorAPI**

#### Interface PDFValidator

 [.NET, C, Java] New method WriteFontValidationXML: Write font validation information in XML format to a stream.

### Shell pdfvalidator

No functional changes.

### 3.24.1 **Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- **Improved** error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

### Patch 4.12.26.6

- Removed overly strict validation of DCT encoded streams that could not be read by older versions of Adobe Acrobat.
- Improved stability validating simple fonts with invalid entries.

### Patch 4.12.26.9

Improved stack usage reading large Type1C font programs.

### Patch 4.12.26.10

Improved stability validating certain JBIG2 compressed streams.

#### Patch 4.12.26.11

- Removed overly strict validation of JBIG2 encoded streams.
- Improved validation of glyph names of non-symbolic fonts containing symbolic glyphs from the ZapfDingbats font.
- Improved validation of corrupt DCT stream data.

# 3.25 3-Heights™ PDF Viewer

**Note:** Version 4.12 will be the last supported release for the 3-Heights™ PDF Viewer.

• **New** HTTP proxy setting in the GUI license manager.

### **API PdfViewerOCX**

No functional changes.

### **APIPdfViewerAPI**

No functional changes.

### **API PdfViewerWPF**

No functional changes.

### Desktop viewer

No functional changes.

### 3.25.1 Patches

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.26 3-Heights™ PDF Web Viewer

- **New** HTTP proxy setting in the GUI license manager.
- Introduced license feature Editing

- New UI available for the 3-Heights™ PDF Web Viewer. A new and heavily improved user experience for both desktop and mobile devices.
- New and intuitive context menus for both desktop and mobile devices allowing for comfortable work with
- **New** feature: Touch allows now moving and resizing of annotations
- **New** feature: Fully functional rich text editor for freetext annotations
- **New** options: Out of the box the viewer is already customizable, such a default colors for annotations, enabling and disabling of functionalities such as open documents, save documents, thumbnails, outlines and more
- New and improved API
- Fixed Safari uses now the canvas directly instead of the unsupported ImageBitmap

### **3.26.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.27 3-Heights™ Scan to PDF Server

- **New** HTTP proxy setting in the GUI license manager.
- Introduced license features TiffProcessing and PdfSignature.

### Component Tiff. ExtractOcrData

■ **New** attribute format-version to produce a fixed version of the OCR XML format.

### 3.27.1 **Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

### Patch 4.12.26.5

• **Fixed** communication with HTTP servers that don't support keep-alive for OCSP, time-stamps and signature services.

# 3.28 3-Heights™ Signature Creation and Verification Service

**Note:** Version 4.12 will be the last supported release for the 3-Heights™ Signature Creation and Verification Service.

New HTTP proxy setting in the GUI license manager.

### **3.28.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.29 3-Heights™TIFF Toolbox Shell

- New HTTP proxy setting in the GUI license manager.
- New shell tool tiffs can to scan images from a TWAIN or WIA scanner.

### **Shell tiffocr**

New key BlankPageMargin for the formation of the OCR parameter used in -ocp. The corresponding value denotes the relative margin. The margin is excluded from the analysis if a page is blank.

### **Shell tiffextract**

- New option -ocv to produce a fixed version of the OCR XML format.
- New included description of tiffextract in TiffToolboxShell.pdf.

### **Shell tiffscan**

- **New** option c1 to load capability file.
- New option cs to save capability file.
- New option -1 to list sources.
- **New** option -s to set a scanner.
- **New** option -u to show user interface in order to configure scan settings.

### **3.29.1 Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- Improved error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

## 3.30 3-Heights™TIFF Toolbox API

- New HTTP proxy setting in the GUI license manager.
- New Interface Scanner to scan images from a TWAIN or WIA scanner.

### **API** Recognizer

New key BlankPageMargin for the formation of the OcrParameters property in struct RecognizerParameters. The corresponding value denotes the relative margin. The margin is excluded from the analysis if a page is blank.

### **API Scanner**

- **New** method SetSource to set TWAIN or WIA scanner to scan with.
- New method ShowUI to show user interface that allows to configure scan settings.
- **New** method Scan to scan into output stream.
- New property Capabilities to get and set capability stream.
- New property Sources to get list (see StringList) of available TWAIN/WIA sources.

### 3.30.1 **Patches**

Note that the version number of the initial "final release" is 4.12.26.3.

#### Patch 4.12.26.4

- **Improved** error messages for failed HTTP connections in various situations (including license manager).
- Added missing documentation and release note for the proxy setting in the GUI license manager.
- Improved license reactivation behavior of the commandline license manager (licmgr): The server is now only contacted if necessary.
- Improved behavior of license manager when dealing with licenses of unreleased products.

# 3.31 3-Heights™ XMP Generator

No functional changes.

# 4 Licensing, Copyright, and Contact

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PDF Tools AG
Kasernenstrasse 1
8184 Bachenbülach
Switzerland
<a href="http://www.pdf-tools.com">http://www.pdf-tools.com</a>
pdfsales@pdf-tools.com