Release Notes

3-Heights® and Classic PDF Tools

Version 6.18.4
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1 Overview

The 3-Heights® PDF tools represent the second-generation 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.

1.1 How to Download the Trial Software

The 3-Heights® PDF tools can be downloaded from the product description pages on https://www.pdf-tools.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

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

- Windows Client 7+ | x86 and x64
- Linux:
  - Red Hat, CentOS, Oracle Linux 7+ | x64
  - Fedora 29+ | x64
  - Debian 8+ | x64
  - Other: Linux kernel 2.6+, GCC toolset 4.8+ | x64
- macOS 10.10+ | x64

‘+’ indicates the minimum supported version.

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

- Document Converter
- PDF Printer

1.4 Compiler Versions

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

<table>
<thead>
<tr>
<th>Platform</th>
<th>Compiler</th>
<th>Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows</td>
<td>MSVC 14.23</td>
<td>toolset v142</td>
</tr>
<tr>
<td>macOS 10.10 x64</td>
<td>clang 10.0.0</td>
<td></td>
</tr>
<tr>
<td>Linux x64 (GLIBC2.17)</td>
<td>gcc 4.8</td>
<td>glibc 2.17</td>
</tr>
</tbody>
</table>
1.5 Runtime Environment

The Windows variants of the components have been compiled with Visual Studio 2019. 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 v142 toolset.

.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 Changes to 3-Heights® Products in Versions 6.13–6.18

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.

2.1 3-Heights® Document Converter

- **Changed** behavior of option PDFA.SUBSET. When using the value false, embedded fonts are only replaced if they match the installed font.
- **New** support for image format HEIC/HEIF.
- **New** configuration option to control execution of Javascript in Acrobat Reader
- **Improved** DateFormat option for email conversion (can be used as document or job option, culture selection)
- **Stamping**
  - **New** attribute `layer` of `<stamp>` to create stamp whose visibility can be controlled by layer.
  - **New** value `transverse` for attribute `align` of `<stamp>`.
  - **New** variable text element `pageNumber`.
  - **New** variable text elements for document metadata properties, e.g. `Author` or `Title`.
  - **New** prefix `^` for page numbers in attribute `page` of `<stamp>` to count from back of document.

2.1.1 Patches

**Patch 6.18.1**

- **Improved** performance reading files with excessive number of compressed object streams.

**Patch 6.18.3**

- **Improved** stability when reading PDF files with corrupt annotations or certain invalid form fields.
- **Update** license agreement to version 2.9

**Patch 6.18.4**

- **Improved** performance for PDFs with pages that contain a huge amount of paths.

2.2 3-Heights® Image to PDF Converter

- **New** supported image format HEIC/HEIF.

**API Img2PdfAPI**

No functional changes.

**API TiffToolsAPI**
No functional changes.

2.2.1 Patches

Patch 6.18.1
- Improved performance reading files with excessive number of compressed object streams.
- Improved performance reading files with excessive number of compressed object streams.

Patch 6.18.3
- Improved stability when reading PDF files with corrupt annotations or certain invalid form fields.
- Update license agreement to version 2.9
- Improved stability when reading PDF files with corrupt annotations or certain invalid form fields.
- Update license agreement to version 2.9

Patch 6.18.4
- Improved performance for PDFs with pages that contain a huge amount of paths.
- Improved performance for PDFs with pages that contain a huge amount of paths.

2.3 3-Heights® PDF Analysis & Repair

API PdfRepairAPI
No functional changes.

Shell pdfrepair
No functional changes.

Service PdfRepairSvr
No functional changes.

2.3.1 Patches

Patch 6.18.1
- Improved performance reading files with excessive number of compressed object streams.

Patch 6.18.3
- Improved stability when reading PDF files with corrupt annotations or certain invalid form fields.
- **Update** license agreement to version 2.9

**Patch 6.18.4**
- **Improved** performance for PDFs with pages that contain a huge amount of paths.

### 2.4 3-Heights® PDF Extract

**API PdfExtractAPI**
- [.NET, C, COM, Java] **Improved** extraction of document parts with missing End entry.

**Interface EmbeddedFile**
- [.NET, C, COM, Java] **New** properties AssociationRelationship, Description and IsInitialDocument.
- [.NET, C] **New** properties CreationDate2 and ModDate2.

#### 2.4.1 Patches

**Patch 6.18.1**
- **Improved** performance reading files with excessive number of compressed object streams.

**Patch 6.18.3**
- **Improved** stability when reading PDF files with corrupt annotations or certain invalid form fields.
- **Update** license agreement to version 2.9

**Patch 6.18.4**
- **Improved** performance for PDFs with pages that contain a huge amount of paths.

### 2.5 3-Heights® PDF Merge Split

**API PdfSplMrgAPI**
- [.NET, C, Java] **New** methods OpenStream and SaveAsStream to facilitate the use of streams as input and output.
2.5.1 Patches

Patch 6.18.1
- Improved performance reading files with excessive number of compressed object streams.

Patch 6.18.2
- Improved merge of complex optional content group (layer) hierarchies.

Patch 6.18.3
- Improved stability when reading PDF files with corrupt annotations or certain invalid form fields.
- Update license agreement to version 2.9

Patch 6.18.4
- Improved performance for PDFs with pages that contain a huge amount of paths.

2.6 3-Heights® PDF OCR

API PdfOcrAPI
No functional changes.

Shell pdfocr
No functional changes.

2.6.1 Patches

Patch 6.18.1
- Improved performance reading files with excessive number of compressed object streams.

Patch 6.18.3
- Improved stability when reading PDF files with corrupt annotations or certain invalid form fields.
- Update license agreement to version 2.9

Patch 6.18.4
- Improved performance for PDFs with pages that contain a huge amount of paths.
2.7 3-Heights® OCR Service

Plugin service
No functional changes.

Plugin abbyy11
No functional changes.

Plugin abbyy10
No functional changes.

2.7.1 Patches

Patch 6.18.1
- **Improved** performance reading files with excessive number of compressed object streams.

Patch 6.18.3
- **Improved** stability when reading PDF files with corrupt annotations or certain invalid form fields.
- **Update** license agreement to version 2.9

Patch 6.18.4
- **Improved** performance for PDFs with pages that contain a huge amount of paths.

2.8 3-Heights® PDF Optimizer

API PdfOptimizeAPI
- [.NET, C, Java] **New** methods OpenStream and SaveAsStream to facilitate the use of streams as input and output.

Shell pdfoptimize
No functional changes.

Service PdfOptimizeSvr
No functional changes.
2.8.1 Patches

Patch 6.18.1
- **Improved** performance reading files with excessive number of compressed object streams.

Patch 6.18.3
- **Improved** stability when reading PDF files with corrupt annotations or certain invalid form fields.
- **Update** license agreement to version 2.9

Patch 6.18.4
- **Improved** performance for PDFs with pages that contain a huge amount of paths.

2.9 3-Heights® PDF Printer

**API PrinterOCX**
No functional changes.

**Shell pdprint**
No functional changes.

**Service PdfPrintSvr**
No functional changes.

2.9.1 Patches

Patch 6.18.1
- **Improved** performance reading files with excessive number of compressed object streams.

Patch 6.18.2
- **Improved** repair of documents with certain incorrectly constructed path objects.

Patch 6.18.3
- **Improved** stability when reading PDF files with corrupt annotations or certain invalid form fields.
- **Update** license agreement to version 2.9
Patch 6.18.4

- Improved performance for PDFs with pages that contain a huge amount of paths.

2.10 3-Heights® PDF Security

- Stamping
  - New attribute layer of \texttt{<stamp>} to create stamp whose visibility can be controlled by layer.
  - New value \texttt{transverse} for attribute align of \texttt{<stamp>}.
  - New variable text element \texttt{PageNumber}.
  - New variable text elements for document metadata properties, e.g. Author or Title.
  - New prefix ^ for page numbers in attribute page of \texttt{<stamp>} to count from back of document.

API PdfSecureAPI

Interface PdfSecure

- New property \texttt{NoDSS}.

Shell pdfsecure

- New option -nd.

Service PdfSecureSvr

- New option -nd.

2.10.1 Patches

Patch 6.18.1

- Improved performance reading files with excessive number of compressed object streams.

Patch 6.18.3

- Improved stability when reading PDF files with corrupt annotations or certain invalid form fields.
- Update license agreement to version 2.9

Patch 6.18.4

- Improved performance for PDFs with pages that contain a huge amount of paths.
2.11 3-Heights® PDF to Image Converter

**API Pdf2ImgR2API**

No functional changes.

**Service Pdf2ImgSvrR2**

No functional changes.

2.11.1 Patches

**Patch 6.18.1**

- **Improved** performance reading files with excessive number of compressed object streams.

**Patch 6.18.3**

- **Improved** rendering of asian text for small resolutions.
- **Improved** stability when reading PDF files with corrupt annotations or certain invalid form fields.
- **Update** license agreement to version 2.9

**Patch 6.18.4**

- **Improved** performance for PDFs with pages that contain a huge amount of paths.

2.12 3-Heights® PDF to PDF/A Converter

**API Pdf2PdfAPI**

**Interface Pdf2Pdf**

- **Changed** behavior of property *SubsetFonts*. When using *False* embedded fonts are only replaced if they match the installed font.
- **New** property *NoDSS*.

**Shell pdf2pdf**

- **New** option `-nd`.

**Service Pdf2PdfSvr**

- **New** option `-nd`. 
2.12.1 Patches

Patch 6.18.1
- Improved performance reading files with excessive number of compressed object streams.

Patch 6.18.3
- Improved stability when reading PDF files with corrupt annotations or certain invalid form fields.
- Update license agreement to version 2.9

Patch 6.18.4
- Improved performance for PDFs with pages that contain a huge amount of paths.

2.13 3-Heights® PDF Toolbox API

This product has been superseded by the successor product 4-Heights® PDF Toolbox SDK.

2.14 3-Heights® PDF Validator

API PdfValidatorAPI
No functional changes.

Shell pdfvalidator
No functional changes.

2.14.1 Patches

Patch 6.18.1
- Improved performance reading files with excessive number of compressed object streams.

Patch 6.18.3
- Improved stability when reading PDF files with corrupt annotations or certain invalid form fields.
- Update license agreement to version 2.9

Patch 6.18.4
- Improved performance for PDFs with pages that contain a huge amount of paths.
2.15 3-Heights® PDF Web Viewer

This product has been superseeded by the successor product 4-Heights® PDF Web Viewer.

2.16 3-Heights® Scan to PDF Server

2.16.1 Patches

Patch 6.18.1

- **Improved** performance reading files with excessive number of compressed object streams.

Patch 6.18.3

- **Improved** stability when reading PDF files with corrupt annotations or certain invalid form fields.
- **Update** license agreement to version 2.9

Patch 6.18.4

- **Improved** performance for PDFs with pages that contain a huge amount of paths.
3 Licensing, Copyright, and Contact

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