



Release Notes

# Release Notes

**3-Heights™ and Classic PDF Tools**

**Version 6.12.4**



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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.

The Classic PDF 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 <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](mailto: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
- Windows Server 2008, 2008 R2, 2012, 2012 R2, 2016, 2019 | 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++:

Platform	Compiler	Library
Windows	MSVC 14.23	toolset v142

macOS 10.10 x64	clang 10.0.0	
Linux x64 (GLIBC2.17)	gcc 4.8	glibc 2.17
Linux x64 (GLIBC2.27)	gcc 7.3	glibc 2.27

## 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.

### 1.5.1 PHP Interfaces Removed

On the transition from version 5 to 6, all versions of the PHP interface have been removed. This applies to the following products:

- 3-Heights™ PDF to PDF/A Converter API
- 3-Heights™ PDF Extract API
- 3-Heights™ Image to PDF Converter API
- 3-Heights™ PDF Merge Split API
- 3-Heights™ PDF to Image Converter API
- 3-Heights™ PDF Optimizer API
- 3-Heights™ PDF Analysis & Repair API
- 3-Heights™ PDF Security API
- 3-Heights™ PDF Validator API

We are planning to introduce a new product featuring a RESTful API in the future, which you will be able to call via PHP. In the meantime, we recommend using the shell version in your application. If you are using PHP 5.6 NTS or PHP 7.0 NTS, it is also possible to continue using the long-term-support release 5.9 of the PHP API.

## 2 New Features to Classic Products

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™ Document Converter

- Added Permission Flags list for option PDF.PERMISSION
- **Improved** default value of OCR.TAGGING to detect automatically whether tagging information should be added or not.
- Added file extensions .POT and .POTX to default extensions for PowerPoint
- Digital Signatures
  - Swisscom All-in Signing Service
    - **New** support for accounts (Identity) based on Swisscom CA 4 Certificate Authorities.
    - **New** support to create PAdES signatures (format ETSI .CAAdES .detached).
  - **Improved** embedding of revocation information (OCSP, CRL, and trust chain) to always use the document security store (DSS).
  - **Changed** the creation of signatures of format ETSI .CAAdES .detached to include revocation information if supported by the cryptographic provider.
  - **Improved** support for new version of the GlobalSign Digital Signing Service. The service endpoint should be updated to `https://emea.api.dss.globalsign.com:8443/v2`.
- Stamping
  - **New** value `shrinkRelToA4` for attribute `flags` of `<stamp>`.
- **Changed** requirement for .NET Framework to 4.7.
- **New** section OCR.
- **New** support for using modern authentication with Microsoft Exchange Online

#### 3.1.1 Patches

##### Patch 6.12.1

- **Improved** conversion of RTF based email bodies in MSG files
- **Improved** conversion of optional optimizations applied to MHT files
- **Fixed** a From address configuration issue for SMTP delivery in the watched folder service

##### Patch 6.12.2

- **Improved** conversion to PDF/A of embedded PDF documents with empty MIME type specification.

##### Patch 6.12.4

- **Fixed** a performance issue occurring with deeply nested documents (e.g. mails with attachments containing mails with attachments etc.)
- **Fixed** a timeout issue in the client applications when using the Webservice interface

## 3.2 3-Heights™ Image to PDF Converter

### API Img2PdfAPI

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [PHP] **Removed** all versions of the PHP interface. See [PHP Interfaces Removed](#).
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform “AnyCPU” is now supported for .NET Framework projects.

### Interface PDFCodec

- **New** Property `Name`.

### API TiffToolsAPI

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform “AnyCPU” is now supported for .NET Framework projects.
- [Java] **Changed** inheritance. All interfaces except `StringList` now inherit from `AutoCloseable` and therefore can be used in a try-resource clause.
- [Java] **New** static method `fromValue` for all non-flags enums.

### Interface StringList

- [Java] **Deprecated** method `close`.
- [.NET] **Deprecated** method `Dispose`.

### Shell tiffextract

- **Improved** OCR XML format. Maximum and default version increased to 4.

## 3.3 3-Heights™ PDF Analysis & Repair

### API PdfRepairAPI

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [PHP] **Removed** all versions of the PHP interface. See [PHP Interfaces Removed](#).
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.

- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform "AnyCPU" is now supported for .NET Framework projects.

## Shell pdfrepair

No functional changes.

## Service PdfRepairSvr

No functional changes.

## 3.4 3-Heights™ PDF Extract

### API PdfExtractAPI

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [PHP] **Removed** all versions of the PHP interface. See [PHP Interfaces Removed](#).
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform "AnyCPU" is now supported for .NET Framework projects.

## 3.5 3-Heights™ PDF Merge Split

### API PdfSp1MrgAPI

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [PHP] **Removed** all versions of the PHP interface. See [PHP Interfaces Removed](#).
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform "AnyCPU" is now supported for .NET Framework projects.
- **Changed** handling of conformance in all methods that copy from an input document to an output document: The conformance of the target document is adapted automatically and if that's not possible, an error is generated.

## 3.6 3-Heights™ PDF OCR

- **New** version of OCR plugin "barcodes" with QR Code recognition improvements.

### API PdfOcrAPI

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.



- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform "AnyCPU" is now supported for .NET Framework projects.
- [Java] **New** static method [fromValue](#) for all non-flags enums.

## Interface Document

- [Java] **Changed** inheritance. Interface now inherits from [AutoCloseable](#) and therefore can be used in a try-resource clause.

## Interface EngineList

- [Java] **Deprecated** method [close](#).
- [.NET] **Deprecated** method [Dispose](#).

## Interface WarningList

- [Java] **Deprecated** method [close](#).
- [.NET] **Deprecated** method [Dispose](#).

## Interface Engine

- [Java] **Deprecated** method [close](#).
- [.NET] **Deprecated** method [Dispose](#).

## Interface Warning

- [Java] **Deprecated** method [close](#).
- [.NET] **Deprecated** method [Dispose](#).

## Structure TextOcrParams

- **New** property [TextOcrSkip](#) to define text that can be skipped from text OCR processing.
- **New** property [ToUnicodeSource](#) to enable additional sources of ToUnicode information, i.e. in addition to OCR processing.

## Structure PageOcrParams

- **Changed** default value of property [Tagging](#) to new value [TaggingMode.Auto](#).

## Enumeration TaggingMode

- **New** value [TaggingMode.Auto](#) to enable automatic detection whether tagging information should be added or not.

## Shell pdfocr

- **New** option `-ots` to define text that can be skipped from text OCR processing.
- **New** option `-otu` to enable additional sources of ToUnicode information, i.e. in addition to OCR processing.
- **Changed** default of tagging mode option `-tm` to `auto`.

### 3.6.1 Patches

#### Patch 6.12.2

- **Improved** handling of corrupt input documents.
- **Fixed** detection of existing OCR text for special cases.

## 3.7 3-Heights™ OCR Service

### Plugin service

- **Improved** HTTP processing and job scheduling: Reimplementation in .NET/WCF to improve robustness and stability.
- **Changed** log rollover behavior: Current log file now has no added number.
- **Changed** log format: A consistent format is used for all types of messages.
- **Improved** behavior with CPU-core restricted licenses: The parallelity is now reduced automatically to avoid runtime errors.
- **Changed** default location of work folder to `C:\ProgramData\PDF Tools AG\3-Heights(TM) OCR Service`

### Plugin abbyy11

No functional changes.

### Plugin abbyy10

No functional changes.

## 3.8 3-Heights™ PDF Optimizer

- **Improved** processing of images with indexed color space. Down-sampling is now supported if color conversion is activated.
- **Changed** behavior for compressing images: Compression types are selected based on the output image's type, not on the input image's type. (The image type can change, e.g., if color conversion is activated.)
- **Changed** optimization profiles: In profiles "Web", "Print", "Archive", and "Max", the "Flate" compression is added to images of type "continuous".

### API PdfOptimizeAPI

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [PHP] **Removed** all versions of the PHP interface. See [PHP Interfaces Removed](#).

- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform “AnyCPU” is now supported for .NET Framework projects.

## Shell pdfoptimize

No functional changes.

## Service PdfOptimizeSvr

No functional changes.

# 3.9 3-Heights™ PDF Printer

## API PrinterOCX

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform “AnyCPU” is now supported for .NET Framework projects.

## Shell pdprint

No functional changes.

## Service PdfPrintSvr

No functional changes.

# 3.10 3-Heights™ PDF Security

- Digital Signatures
  - Swisscom All-in Signing Service
    - **New** support for accounts (Identity) based on Swisscom CA 4 Certificate Authorities.
    - **New** support to create PAdES signatures (format ETSI .CAAdES .detached).
  - **Improved** embedding of revocation information (OCSP, CRL, and trust chain) to always use the document security store (DSS).
  - **Changed** the creation of signatures of format ETSI .CAAdES .detached to include revocation information if supported by the cryptographic provider.
  - **Improved** support for new version of the GlobalSign Digital Signing Service. The service endpoint should be updated to `https://emea.api.dss.globalsign.com:8443/v2`.
- Stamping
  - **New** value `shrinkRelToA4` for attribute `flags` of `<stamp>`.

## API PdfSecureAPI

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [PHP] **Removed** all versions of the PHP interface. See [PHP Interfaces Removed](#).
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform “AnyCPU” is now supported for .NET Framework projects.

## Interface PdfSecure

- **New** property `RemoveLegacyStamps` to remove stamps created by the PDF Batch Stamp Tool.

## Shell pdfsecure

- **New** option `-rls` to remove legacy stamps created by the PDF Batch Stamp Tool.

## Service PdfSecureSvr

No functional changes.

### 3.10.1 Patches

#### Patch 6.12.4

- **New** property `NoDSS`.

## 3.11 3-Heights™ PDF to Image Converter

### API Pdf2ImgR2API

- **New** enum value `eOptionDrawPopupAnnots` for `TPDFRendererOption2`.
- **New** functionality to select the box type which is used for rendering the page.
- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [PHP] **Removed** all versions of the PHP interface. See [PHP Interfaces Removed](#).
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform “AnyCPU” is now supported for .NET Framework projects.

### Shell pdf2imgR2

- **New** option `-pbt` to select the box which is used for rendering the page.

## Service Pdf2ImgSvrR2

No functional changes.

## 3.12 3-Heights™ PDF to PDF/A Converter

- Digital Signatures
  - Swisscom All-in Signing Service
    - **New** support for accounts (Identity) based on Swisscom CA 4 Certificate Authorities.
    - **New** support to create PAdES signatures (format ETSI .CAAdES .detached).
  - **Improved** embedding of revocation information (OCSP, CRL, and trust chain) to always use the document security store (DSS).
  - **Changed** the creation of signatures of format ETSI .CAAdES .detached to include revocation information if supported by the cryptographic provider.
  - **Improved** support for new version of the GlobalSign Digital Signing Service. The service endpoint should be updated to `https://emea.api.dss.globalsign.com:8443/v2`.
- **Improved** repair of corrupt DCT stream data.
- **New** support for ZUGFeRD 2.1.1 electronic invoices (including XRechnung)
- **Improved** creation of annotation appearances.
- **New** support use of fonts that are installed only for the current Windows user.

## API Pdf2PdfAPI

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [PHP] **Removed** all versions of the PHP interface. See [PHP Interfaces Removed](#).
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform "AnyCPU" is now supported for .NET Framework projects.

## Interface Pdf2Pdf

- **New** Property `EmbedAllFonts`.
- **Changed** behavior of method `AddZUGFeRDXml`: ZUGFeRD 2.1 is now used instead of the equivalent Factor-X 1.0. ZUGFeRD 2.1 is always preferred over 2.0 and thus profile "EN 16931" is now also supported and not considered ambiguous anymore.
- **Changed** behavior of method `AddInvoiceXml`: ZUGFeRD 2.1 is now preferred over 2.0 if `ePDFInvoiceZugferd` was selected.

## Shell pdf2pdf

- **Changed** behavior of option `-az`: ZUGFeRD 2.1 is now used instead of the equivalent Factor-X 1.0. ZUGFeRD 2.1 is always preferred over 2.0 and thus profile "EN 16931" is now also supported and not considered ambiguous anymore.
- **Changed** behavior of option `-ai`: ZUGFeRD 2.1 is now preferred over 2.0 if `zf` was selected.

## Service Pdf2PdfSvr

No functional changes.

## 3.12.1 Patches

### Patch 6.12.2

- **Improved** conversion of embedded PDF documents with empty MIME type specification.

### Patch 6.12.4

- **New** property `NoDSS`.

## 3.13 3-Heights™ PDF Toolbox API

- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform "AnyCPU" is now supported for .NET Framework projects.
- [Java] **New** static method `fromValue` for all non-flags enums.
- [.NET, C, Java] **New** interfaces for PDF annotations:
  - `Link`
  - `WebLink`
  - `InternalLink`
  - `MarkupAnnotation`
  - `DrawingAnnotation`
  - `LineAnnotation`
  - `PolyDrawingAnnotation`
  - `FreeDrawingAnnotation`
  - `PolyLineAnnotation`
  - `PolygonAnnotation`
  - `ShapeDrawingAnnotation`
  - `CircleAnnotation`
  - `SquareAnnotation`
  - `FileAttachmentAnnotation`
  - `FreeTextAnnotation`
  - `StickyNoteAnnotation`
  - `TextInsertAnnotation`
  - `TextMarkupAnnotation`
  - `HighlightAnnotation`
  - `SquigglyAnnotation`
  - `StrikeThroughAnnotation`
  - `UnderlineAnnotation`
  - `TextStampAnnotation`
  - `MarkupInfo`
  - `MarkupInfoList`
  - `AnnotationPopup`

- [.NET, C, Java] **New** enums for certain annotations:
  - FileAttachmentIcon
  - TextStampType
  - AnnotationLineEnding
- [.NET, C, Java] **New** interface ViewerSettings for viewer settings.
- [.NET, C, Java] **New** enum PageLayout for viewer settings.
- [.NET, C, Java] **New** enum ViewerNavigationPane for viewer settings.
- [.NET, C, Java] **New** struct PageDisplay for viewer settings.
- [.NET] **Deprecated** method `Dispose` for all interfaces except for Document, ContentGenerator, PathGenerator and TextGenerator.
- [Java] **Deprecated** method `close` for all interfaces except for Document, ContentGenerator, PathGenerator and TextGenerator.
- [.NET, C, Java] **Removed** deprecated interface Form.

## Interface Annotation

- [.NET, C, Java] **New** property Hidden.
- [.NET, C, Java] **New** property DoPrint.
- [.NET, C, Java] **New** property NoZoom.
- [.NET, C, Java] **New** property NoRotate.

## Interface ContentGenerator

- [Java] **Changed** inheritance. Interface now inherits from `AutoCloseable` and therefore can be used in a try-resource clause.
- [.NET, C, Java] **Removed** deprecated method `PaintForm`.
- [.NET, C, Java] **Changed** error behavior of method `PaintGroup`: A `Conformance` error is generated when trying to paint a group transparently and the requested document conformance does not support transparency.

## Interface Document

- [.NET, C, Java] **New** property `Permissions` for extracting the permission settings of encrypted documents.
- [.NET, C, Java] **New** property `ViewerSettings`.
- [.NET, C, Java] **New** method `CopyAnnotation`.
- [.NET, C, Java] **New** method `CopyFileReference`.
- [.NET, C, Java] **New** method `CopyGroupElementWithoutContent` to facilitate recursive content copying.
- [.NET, C, Java] **New** method `CopyOutlineItem`.
- [.NET, C, Java] **New** method `CopyViewerSettings`.
- [.NET, C, Java] **New** method `CreateFileAttachmentAnnotation`.
- [.NET, C, Java] **New** method `CreateFreeTextAnnotation`.
- [.NET, C, Java] **New** method `CreateStickyNoteAnnotation`.
- [.NET, C, Java] **New** method `CreateTextStampAnnotation`.
- [.NET, C, Java] **New** method `CreateCircleAnnotation`.
- [.NET, C, Java] **New** method `CreateSquareAnnotation`.
- [.NET, C, Java] **New** method `CreateLineAnnotation`.
- [.NET, C, Java] **New** method `CreatePolyLineAnnotation`.
- [.NET, C, Java] **New** method `CreatePolygonAnnotation`.
- [.NET, C, Java] **New** method `CreateFreeDrawingAnnotation`.
- [.NET, C, Java] **Changed** error behavior of method `CreateFileReference`: A `Conformance` error is generated if the document's conformance does not allow the creation.

- [Java] **Changed** inheritance. Interface now inherits from `AutoCloseable` and therefore can be used in a try-resource clause.
- [.NET, C, Java] **Removed** deprecated methods `CreateForm` and `CopyPageAsForm`.
- [.NET, C, Java] **Changed** handling of conformance in methods `CopyColorSpace`, `CopyMetadata`, `CopyContentElement`, `CopyFormFieldNode`: The conformance of the target document is adapted automatically and if that's not possible, an error is generated.

## Interface Image

- [.NET, C, Java] **Removed** deprecated property `IsMask`.

## Interface PathGenerator

- [Java] **Changed** inheritance. Interface now inherits from `AutoCloseable` and therefore can be used in a try-resource clause.

## Interface TextGenerator

- [Java] **Changed** inheritance. Interface now inherits from `AutoCloseable` and therefore can be used in a try-resource clause.

## Interface TextField

- [.NET, C, Java] **New** property `FontSize`.

## 3.14 3-Heights™ PDF Validator

- **Improved** validation of corrupt DCT stream data.

### API PdfValidatorAPI

- **Improved** XML output of method `WriteFontValidationXML()` with new attribute `is-symbolic` in the element `<font>` of simple fonts.
- **New** property `PageCount`.
- [Java] **Changed** minimal supported Java language version to 7 [previously 6].
- [PHP] **Removed** all versions of the PHP interface. See [PHP Interfaces Removed](#).
- [.NET] **New** availability of this product as NuGet package for Windows, macOS and Linux.
- [.NET] **New** support for .NET Core versions 1.0 and higher. The support is restricted to a subset of the operating systems supported by .NET Core, see [Operating Systems](#).
- [.NET] **Changed** platform support for NuGet packages: The platform "AnyCPU" is now supported for .NET Framework projects.

### Shell pdfvalidator

No functional changes.



## 3.15 3-Heights™ PDF Web Viewer

- **Improved** method `openFile` now also accepts a URI string. Large files will be opened piecewise when supported by the host of the PDF file.
- **Improved** method `openFDF` now also accepts two URI strings for both the PDF and FDF. However, this method will circumvent the piecewise loading in order to merge all the FDF annotations in the PDF document.
- `openFile` and `openFDF` accept now also authentication tokens for PDFs protected by authentication mechanisms.
- **New:** Annotations can now be locked preventing unintentional editing or deleting.
- **New** field: Annotations can now have their subjects. The subject can be set via popup or via freetext toolbar.
- **Improved** usability for freetext annotations: When editing a freetext annotation a mouse click outside the freetext annotation now finishes the editing and stores the changes to the document. No need to explicitly click the checkmark anymore.
- **Improved** state handling when saving a document: Annotations that are in the process of being edited or created (ink annotations) are now being stored before the document is saved.
- **New** GUI element: Annotation pane. The annotation pane displays all markup annotations contained in the opened document. Depending on the page count the annotations don't show up immediately as the loading happens asynchronously and updates on the fly whenever annotations of a page have been loaded.
- **New:** Added page navigation buttons to the mobile navigation toolbar
- **New** GUI functionality: Delete single lines from ink annotations with a click or tap
- **New** annotation types: Circle and square annotations. Create elliptic and rectangular annotations with different border sizes and backgrounds.
- **New** stamp type: Image stamps module is now available. If enabled images can be easily added as stamp annotations to the document. Supported image types: PNG, JPEG, JPEG2000, TIFF, BMP, GIF, JBIG2, PBM, EPS

### 3.15.1 Patches

#### Patch 6.12.1

- **Fixed** an error where deleting an annotation programmatically would throw an error when that annotations was selected
- **Fixed** an issue where OCR text would be copied without spaces
- **Fixed** visibility issue of border with 0 in GUI for stroke widths
- **Fixed** updating color of square and circle popups and their respective borders

#### Patch 6.12.2

- **Fixed** an error for WebKit when setting the content of a freetext annotation would fail.

#### Patch 6.12.3

- **Fixed** an issue where a previously selected color for freetext would not be stored as the new default.
- **Fixed** an issue when creating a transparent freetext annotation in a PDF/A-1 conformant document would leave the content invisible.

## 3.16 3-Heights™ Scan to PDF Server

### Component `Tiff.ExtractOcrData`

- **Improved** OCR XML format. Maximum version increased to 4.

## 4 Licensing, Copyright, and Contact

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