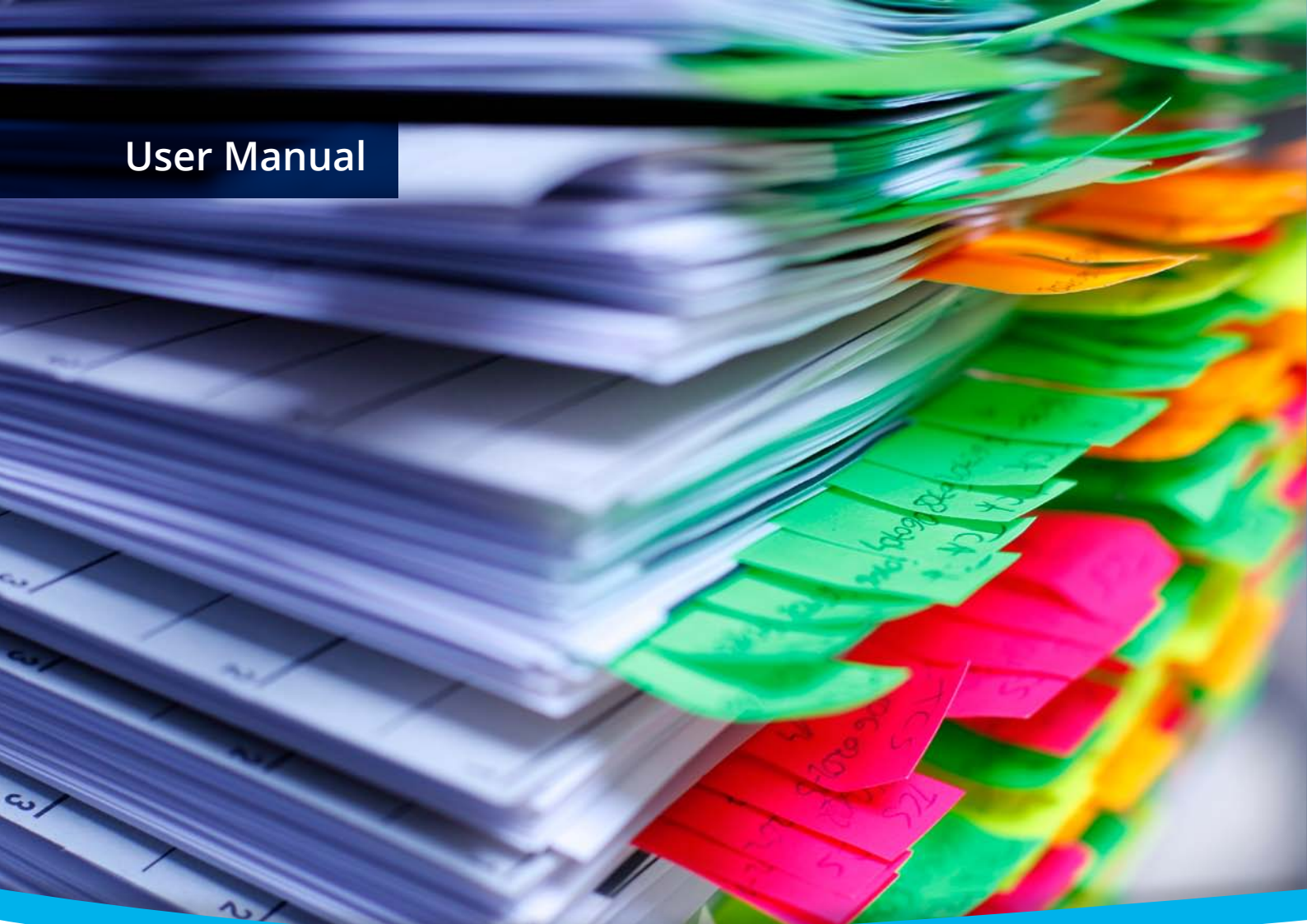


A close-up, slightly blurred image of a stack of papers. On the right side, several colorful sticky notes (green, yellow, orange, and pink) are attached to the papers, some with handwritten text. The papers are stacked in a way that shows multiple layers, with some text visible on the edges.

User Manual

3-Heights™ Document Converter

Client

Version 4.8



Contents

1	Introduction	4
1.1	Operating Systems	4
2	Installation	5
2.1	Client Installation	5
2.2	Updating an Existing Installation	6
3	User guide	7
3.1	Terms and Abbreviations	7
3.2	Client Application	7
3.2.1	Explorer Shell Extension	8
	Configuration	9
3.3	Command Line Tool	9
3.4	Office Add-In	10
3.4.1	Configuration	10
3.4.2	Using the Office Add-In	10
4	Reference Manual	12
4.1	Job Options	12
4.1.1	ALIVECHECK	12
4.1.2	CERTNAME	12
4.1.3	COLLCOMP	12
4.1.4	CONVERTALWAYS	12
4.1.5	EMBEDSOURCE	12
4.1.6	ERRSUMMARY	13
4.1.7	ERRPAGE	13
4.1.8	FitImage	13
4.1.9	FlattenSignatures	13
4.1.10	FORMAT	13
4.1.11	HTMLPRINTRESOLUTION	13
4.1.12	LINEARIZE	13
4.1.13	MAILHEADER	14
4.1.14	OCR	14
4.1.15	OCR.BITONAL	14
4.1.16	OCR.EMBEDBARCODES	14
4.1.17	OCR.ENGINE	14
4.1.18	OCR.LANGUAGE	15
4.1.19	OCR.PARAMETERS	15
4.1.20	OCR.REEMBEDIMAGE	15
4.1.21	OCR.ROTATEPAGE	15
4.1.22	PASSTHROUGH	15
4.1.23	PDFA	15
4.1.24	PDFA.ERROR	16
4.1.25	PDFA.LOGDETAILS	16
4.1.26	PDFA.LOGSUMMARY	16
4.1.27	PDFA.OCRMODE	16
4.1.28	PDFA.SUBSET	16
4.1.29	PDFA.WARNCOLL	17
4.1.30	PDFA.WARNDOWNGRADE	17

4.1.31	PDFA.WARNFONTSUBST	17
4.1.32	PDFA.WARNVISDIFF	17
4.1.33	PDFA.XMPWARNINGS	17
4.1.34	PDF.COMPLIANCE	17
4.1.35	PDF.DATE	18
4.1.36	PDF.Embed	18
4.1.37	PDF.Info	18
4.1.38	PDF.OWNERPASS	18
4.1.39	PDF.PERMISSION	18
4.1.40	PDF.Producer	19
4.1.41	PDF.USERPASS	19
4.1.42	PDFOPTIMIZE	19
4.1.43	SIGEMBEDOCSP	19
4.1.44	SIGFIELDS	19
4.1.45	SIGISSUER	20
4.1.46	SIGPAGE	20
4.1.47	SIGPROFILE	20
4.1.48	SIGPROVIDER	20
4.1.49	SIGPROXYCRED	20
4.1.50	SIGPROXYURL	21
4.1.51	SIGREASON	21
4.1.52	SIGRECT	21
4.1.53	SIGSTORE	21
4.1.54	SIGSTORELOCATION	21
4.1.55	SIGTSCRED	21
4.1.56	SIGTSURL	21
4.1.57	WARNSIGNATURES	22
4.1.58	STAMP	22
4.1.59	TEXTBODY	22
4.1.60	THUMBS	22
4.1.61	TIFF.BPI	22
4.1.62	TIFF.COMPR	23
4.1.63	TIFF.COMPR.BITON	23
4.1.64	TIFF.COMPR.CONTINUOUS	23
4.1.65	TIFF.COMPR.INDEXED	23
4.1.66	TIFF.COMPR.MRC	23
4.1.67	TIFF.COMPR.PDF	23
4.1.68	TIFF.DITHERINGMODE	23
4.1.69	TIFF.DPI	24
4.1.70	TIFF.RENDERINGMODE	24
4.1.71	TIFF.ROTATE	24
4.1.72	TIFF.UNPACK	24
4.1.73	TIFF.XDPI, TIFF.YDPI	24
4.1.74	ZIPPED	24
4.1.75	ZUGFeRD-invoice.xml:ADD	25
4.1.76	Special Key	25
4.2	Document Options	25
4.2.1	ADD	25
4.2.2	ATT.Name	26
4.2.3	ATT.Description	26
4.2.4	CMRQUAL	26
4.2.5	CODEPAGE	26

4.2.6	COLLCOMP	26
4.2.7	FAILFILES	26
4.2.8	FORCEAPP	27
4.2.9	HTZDOCS	27
4.2.10	IncludeVisio Properties	27
4.2.11	MAILPARTS	27
4.2.12	ORIGINALNAME	28
4.2.13	Outline	28
4.2.14	OutputType	28
4.2.15	PRINTCOLOR	28
4.2.16	PRINTDM	29
4.2.17	PW	29
4.2.18	ResolutionDPI	29
4.2.19	SAVEASPDF	29
4.2.20	ThresholdDPI	29
4.2.21	TIFF.COMPR.BITONAL	29
4.2.22	TIFF.COMPR.CONTINOUS	30
4.2.23	TIFF.COMPR.INDEXED	30
4.2.24	TIFF.COMPR.MRC	30
4.2.25	TIFF.UNPACK	30
5	Licensing, Copyright, and Contact	31

1 Introduction

The 3-Heights™ Document Converter Client accesses the Document Converter service which must be installed on an available server. This user manual guides through the installation of a Document Converter Client and provides information about the usage and configuration of its features.

The Client documentation applies to a client of an Enterprise service as well as of a Small-Medium Enterprise service.

For guidance through the service itself or service related issues consider the corresponding Document Converter [Enterprise](#) or [SME](#) manual.

1.1 Operating Systems

The 3-Heights™ Document Converter is available for the following operating systems:

- Windows Vista, 7, 8, 8.1, 10 – 64 bit

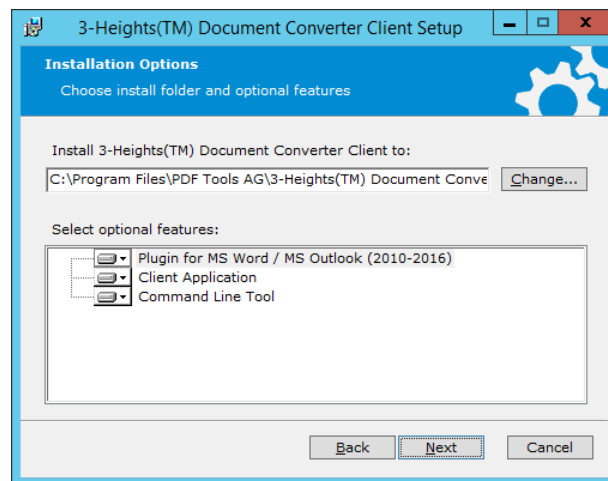
2 Installation

This chapter guides you through the installation of the 3-Heights™ Document Converter Client. For information about the Document Converter Service installation, see the corresponding chapter in the Document Converter [Enterprise](#) or [SME](#) manual.

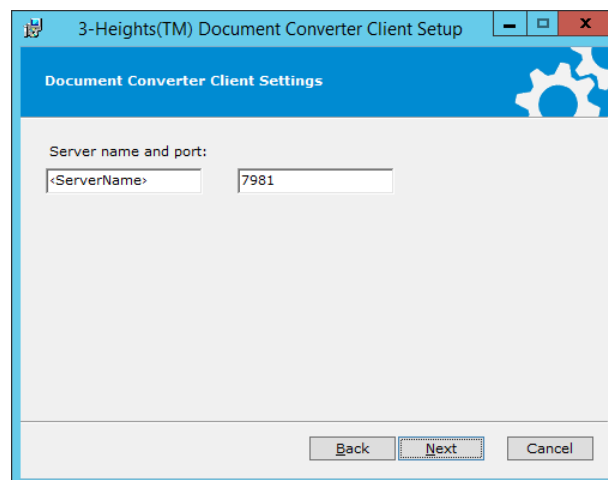
2.1 Client Installation

The installation on a client computer is done with the 3-Heights(TM) Document Converter Client.msi from the ZIP archive DCVC<version><platform>.zip.

1. Run the 3-Heights(TM) Document Converter Client.msi.
2. After going through the initial setup page, accept the terms in the "License Agreement".
3. Continue with the "Installation Options" via the "Next" button.
 - a. If desired change the destination folder.
 - b. Select the features to be installed.
 - c. Click on "Next".



4. Configure the server name and port number according to the Document Converter Service settings.



5. Trigger the installation on the following page by clicking on the "Install" button.
6. After the Document Converter is successfully installed, press on the "Finish" button to close the installation Wizard.

2.2 Updating an Existing Installation

To update a 3-Heights™ Document Converter Client version

1. Execute the MSI of the newest release and follow the steps as described in the section [Client Installation](#). If this yields an error, an uninstallation must be performed before installing the newest Document Converter Client release. The uninstallation can be done with help of the old MSI or via “Programs and Features”.

Note: The uninstallation does not remove the configuration data contained in *.config and *.ini files. These files remain in the installation directory, and will not be changed when performing the installation of the new version into the same installation directory.

3 User guide

This section gives an overview of the usage and configuration for the 3-Heights™ Document Converter Client standard features.

3.1 Terms and Abbreviations

The described terms below are important for the comprehensibility of the Document Converter.

Application Options These options control the corresponding application (e.g. MS Word). Application options are set with the 3-Heights™ Document Converter Service Configuration Editor.

Job Options Are used to configure the general conversion process. Job options can be set analogous to application options or can be specified individually for the different features.

Note: If job options are set at different points, within the conversion process, all job options are merged together. In case of conflicts, those job options which are set for the feature in use, override those of the Service Configuration.

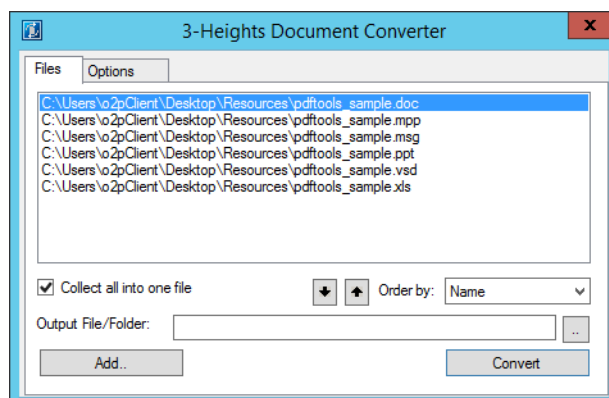
All available document options can be set as job options, but not vice versa. Moreover, settings specified at the document level have priority over settings specified at the job level.

Document Option This options are set to process a particular document and are set “on the job” (i.e. set individually for each feature). The distinction between document options in job options is due to different methods in the O2PProxyAPI.dll.

Note: Certain document options can control an application also (i.e. override application options).

3.2 Client Application

The “Client Application” feature of the 3-Heights(TM) Document Converter Client.msi kit installs a simple Graphical User Interface tool (O2PCMAp.exe). The Client Application is controlled with the two tabs described below.



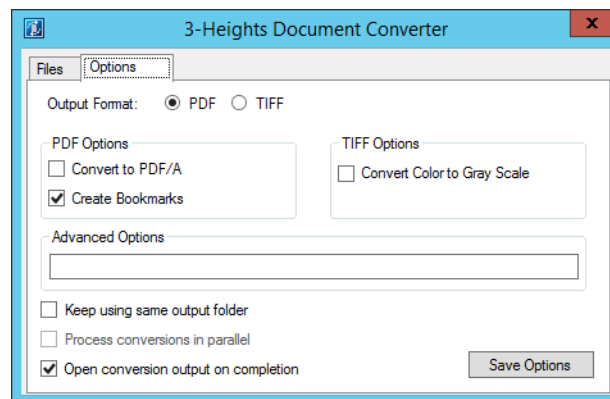
“Files” Tab Add one or more documents, set the output folder and file name, and finally click the “Convert” button to start processing.

If “Collect all into one file” is checked, all added documents are merged into one output file.

“Options” Tab This tab offers the possibility to control the document conversion.

In the “Advanced Options” box you can specify an option as a key-value pair (key=value), see sections [Document Options](#) and [Job Options](#) for available options. Multiple advanced options are separated with a semi-colon.

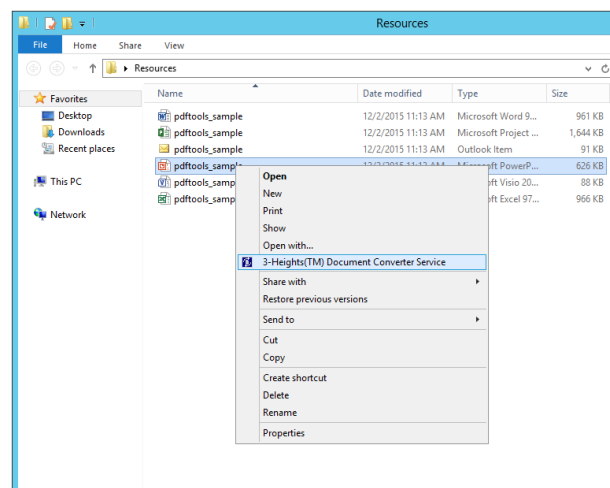
Note: If an option–specified in “Advanced Options”–interferes with a option set within the service configuration, the corresponding service configuration is overwritten.



3.2.1 Explorer Shell Extension

Another way to use the Shell Pop-up is by the Explorer Shell Extension.

Right-click on a document, the pop-up menu will show the “3 Heights(TM) Document Converter Service” entry.



The menu entry will be shown when one or multiple documents are selected, and the selection contains documents having a known file extension. It will also be shown for folders that contain corresponding files.

When activating the menu, it runs the Shell Pop-up.

Configuration

The pop-up menu will be shown by the explorer for files with certain name extensions.

The list of relevant file extensions is configured via the `O2PCM.ini` file that is located in the installation directory of the Document Converter Client.

Note: The `EXPLORER.EXE` file needs to be restarted to reflect changes in the `O2PCM.ini` file.

3.3 Command Line Tool

The command line executable `o2pclient.exe` is a convenient tool for automating conversion tasks in a shell script or as a scheduled task.

Unless you have extended the `PATH` environment setting to include the installation directory of the Document Converter, you have to specify the full file path to call the `o2pclient.exe` program.

Usage: When called without any arguments, it will print a usage message to standard output

```
Usage:    o2pclient  [ Options ] office.doc office.xls ...
Options:  -sp url      service point URL overriding entry in .config file;
              NOTE: this must be first option on the command line.
          -l           list known file extensions
          -o out.pdf   specify name of output file (default: out.pdf)
          -j options   set job options
          -b options   set file options
          -px n v.dat  specify parameter name and data file
          -v           verbose
          -ax file     add XML Metadata from file (unchecked)
          -share       pass files via shared file system

Job options:  PDF.USERPASS=pass;PDF.OWNERPASS=pass;PDF.PERMISSION=-1;
              PDF.DATE=20070901120000
File options: "Outline='Bookmark Text;';xz.zip:Outline=Archive XY"
```

The options `-b` and `-j` take parameters from the corresponding [Document Options](#) and [Job Options](#) section.

Note: The `o2pclient.exe` options `-j` and `-b` are merged with the options, which are set with the Service Configuration Editor. In case of conflicts `-j` and `-b` override the static ones.

Input documents may contain `"*"` wildcard characters to easily pass multiple files for processing. The sequence will be determined by the lexical ordering as provided by the Windows file system.

Example: Convert all documents in a directory to a single PDF/A compliant PDF document

```
o2pclient -o folder.pdf -j PDF/A -b Outline=FILENAME .\folder\*.*
```

Note: You can specify a relative or an absolute path for input files on the command line.

3.4 Office Add-In

The Office Add-In is a simple way for converting documents directly from an Office Application.

Note: Use the Office Add-In in a client environment only (i.e. do not install it on the server hosting the document converter service).

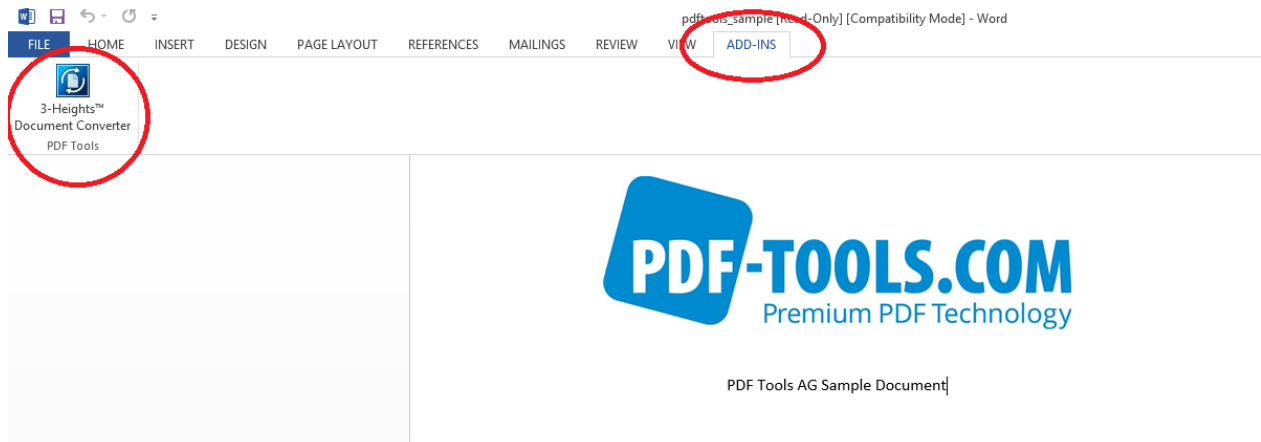
3.4.1 Configuration

The Office Add-In uses the service configuration to convert documents. This means that preferred adjustments have to be made within the service configuration.

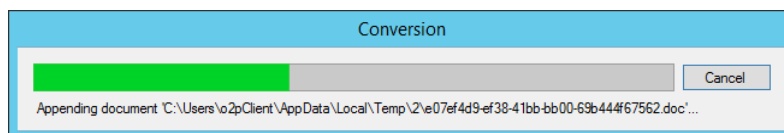
To change the server host name or port run again the client installation (3-Heights(TM) Document Converter Client.msi) and enter the correct settings via the "Change" button. It is also possible to edit the corresponding entry in the `O2PDialog.exe.config` in the client directory.

3.4.2 Using the Office Add-In

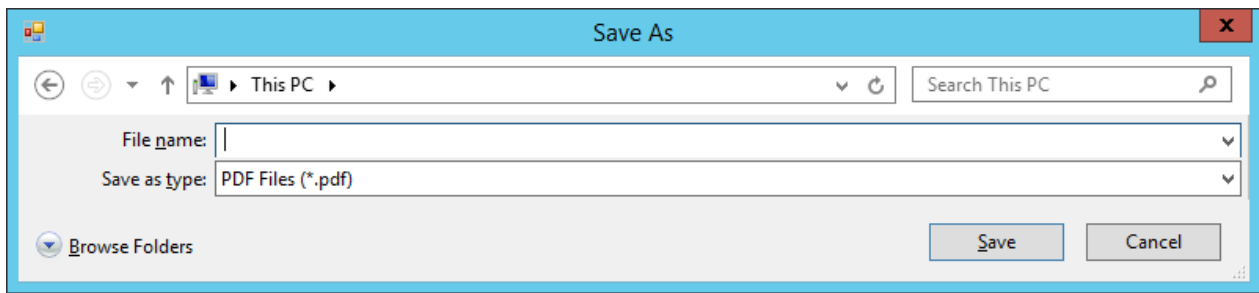
With the Office Add-In, Documents can be converted directly from Word and Outlook:



The document is sent to the conversion server where it is converted with the configured service settings:



The converted document can then be saved on the client again:



4 Reference Manual

4.1 Job Options

4.1.1 ALIVECHECK

Key: ALIVECHECK

Setting this option tells the converter that the current conversion job is merely for verifying proper functioning. This has two effects:

1. The conversion does not contribute to the overall page count.
2. The output has an evaluation watermark.

Note: If OCR is performed, pages **do** count towards the monthly FineReader engine licensed limit.

4.1.2 CERTNAME

Key: CERTNAME

The certificate name to be used for signing the converted PDF. A certificate with the specified name must be installed in the certificate store, and be available to the Document Converter.

The **Name** corresponds to the common name (CN) of the subject. In the Windows' certificate store this corresponds to "Issued to".

4.1.3 COLLCOMP

Key: COLLCOMP Default: true

Collect documents from composite items (such as e-mail) into a single output document.

4.1.4 CONVERTALWAYS

Key: CONVERTALWAYS Default: true

Force PDF/A conversion. Only applicable when PDF to PDF/A conversion is performed.

4.1.5 EMBEDSOURCE

Key: EMBEDSOURCE

When converting to PDF, embed the source document as a file attachment into the resulting PDF document.

(Not available with PDF/A-1 or A-2).

4.1.6 ERRSUMMARY

Key: ERRSUMMARY Default: false

true Set this option to collect all error messages and return them at the end of the conversion process. In particular this is useful when converting compound documents.

4.1.7 ERRPAGE

Key: ERRPAGE Default: false

true Appends a page to the converted document containing an error summary.

4.1.8 FitImage

Key: FitImage

Values A4, A4*, Letter, 595x842* etc., false.

Set the page dimensions for PDF pages created from image documents. The meaning of the asterisk (*) is: do automatically adjust the page orientation to the orientation of the image.

4.1.9 FlattenSignatures

Key: FlattenSignatures Default: false

Keep signature appearance when removing digital signatures during conversion.

4.1.10 FORMAT

Key: FORMAT

Values pdf or tiff. Specifies the conversion output format.

4.1.11 HTMLPRINTRESOLUTION

Key: HTMLPRINTRESOLUTION Default: 1.0

Specify a factor, relative to a screen resolution, for converting web pages.

4.1.12 LINEARIZE

Key: LINEARIZE

When **true**, optimize PDF output for fast web viewing.

4.1.13 MAILHEADER

Key: MAILHEADER

false Do not include headers in conversion.

true Add full mail headers to converted message.

attach Extract original headers and attach as text file.

The layout and styles used to produce the intermediate HTML representation of the mail message can be configured via a style sheet file and a header template file.

4.1.14 OCR

Key: OCR

Enable OCR recognition (values **true** and **false**).

Note: The ABBYY FineReader OCR engine must be installed and licensed separately to make this feature available.

Note: Use of [OCR.ENGINE](#) or [OCR.LANGUAGE](#) automatically turns this setting on.

4.1.15 OCR.BITONAL

Key: OCR.BITONAL Default: **false**

Pass color images converted to bitonal (black/white) image for OCR recognition.

This reduces the resources and time required for OCR recognition at the possible cost of somewhat reduced accuracy.

4.1.16 OCR.EMBEDBARCODES

Key: OCR.EMBEDBARCODES Default: **false**

Embed barcode information into the document XMP metadata.

4.1.17 OCR.ENGINE

Key: OCR.ENGINE

Name of the OCR engine to be used for OCR processing (default: **service**).

4.1.18 OCR.LANGUAGE

Key: OCR.LANGUAGE

Set the language to improve OCR recognition accuracy (values according to the engine; ABBYY expects English spelling, e.g. **German**, **English**).

4.1.19 OCR.PARAMETERS

Key: OCR.PARAMETERS

Set OCR engine parameters.

For detailed information, see OCR engine documentation <https://www.pdf-tools.com/public/downloads/manuals/ocre.pdf>.

4.1.20 OCR.REEMBIMAGE

Key: OCR.REEMBIMAGE Default: **false**

Re-embed images that have been processed (de-skewed) during OCR recognition.

4.1.21 OCR.ROTATEPAGE

Key: OCR.ROTATEPAGE Default: **false**

If **true**, automatically rotate pages during OCR processing to have horizontal reading direction.

This setting only has an effect, if the underlying OCR engine is able and configured to detect the text orientation.

Please refer to the OCR Engine documentation (FineReader Engine 10: **DetectOrientation=true**).

4.1.22 PASSTHROUGH

Key: PASSTHROUGH

Pass source document without conversion to output (ZIPPED or PDF attachment). When converting to PDF, make sure to have at least one document converted.

attachments (all mail attachments)

.xml .txt hidden none List of Extensions.

!.doc.eml.msg.zip Negative list of documents with these extensions.

4.1.23 PDFA

Key: PDFA

Values **true** or **false**. When **true** is set, the resulting PDF will conform to the PDF/A standard.

4.1.24 PDFA.ERROR

Key: PDFA.ERROR

Values **true** or **false**. When **true** is set, return detailed error information from PDF/A conversion.

4.1.25 PDFA.LOGDETAILS

Key: PDFA.LOGDETAILS

Values **true** or **false**. When **true** is set, include detail information in error text.

Default: [PDFA.ERROR](#) setting.

4.1.26 PDFA.LOGSUMMARY

Key: PDFA.LOGSUMMARY

Values **true** or **false**. When **true** is set, include summary information in error text.

Default: [PDFA.ERROR](#) setting

4.1.27 PDFA.OCRMODE

Key: PDFA.OCRMODE

Set one of the OCR modes applicable in the context of PDF/A conversion.

- 1** OCR images without OCR text (default)
- 2** Remove old OCR text (and perform OCR).
- 3** Remove old OCR text (but do not OCR).
- 4** OCR if the document contains no text.

4.1.28 PDFA.SUBSET

Key: PDFA.SUBSET Default: **true**

Do subset those fonts that are being embedded during PDF/A conversion.

Setting this option to **false** may produce potentially much larger PDF/A output files; however, these files may be easier to enhance or modify later on.

Warning: All fonts used in documents converted with this setting must be installed on the server to obtain correct output!

4.1.29 PDFA.WARNCOLL

Key: PDFA.WARNCOLL Default: **true**

Warn if an input PDF contains embedded files that need to be removed for PDF/A-1 compliance.

4.1.30 PDFA.WARNDOWNGRADE

Key: PDFA.WARNDOWNGRADE Default: **false**

Returns the warning O2P_W_DOWNGRADE in case the compliance is downgraded during PDF/A conversion.

4.1.31 PDFA.WARNFONTSUBST

Key: PDFA.WARNFONTSUBST Default: **false**

true Warn if a Font is substituted.

4.1.32 PDFA.WARNVISDIFF

Key: PDFA.WARNVISDIFF Default: **true**

false Suppress the warning normally raised in case PDF/A conversion possibly results in visual changes.

4.1.33 PDFA.XMPWARNINGS

Key: PDFA.XMPWARNINGS

Values **true** or **false**. When **true** is set, raise a conversion error if the XMP Metadata was changed in order to achieve PDF/A conformance.

4.1.34 PDF.COMPLIANCE

Key: PDF.COMPLIANCE Default: **1AB**

Required (minimum) compliance level (for PDF/A conversion).

A compliance is defined by values: **1A**, **1B**, **2A**, **2B**, **2U**, **3A**, **3U**, **3B**.

Additionally a fall-back value can be defined. So if you prefer **1A**, but will also accept **1B** in cases where **1A** is not possible, you can define **1AB**.

1A Raise an error if tagging information is missing.

1B Produce PDF/A-1b output, even if structure tags are available.

1AB Try to create PDF/A-1a; degrade to PDF/A-1b if tagging information is missing.

2A Produce PDF/A-2a (or fail).

2UB Produce PDF/A-2u or – if text encoding information is missing – PDF/A-2b.

2AUB Produce the “best possible” PDF/A-2 output

4.1.35 PDF.DATE

Key: PDF.DATE

The calendar date and time to be used for the output PDF. This will set the `CreationDate` entry in the document's Info object.

Values specified for this key must be formatted as this: `20071031141000` (October 31, 2007, 2:10 p.m. local time), or `20071031141000+'02:00'` (same date, explicit UTC offset +2 hours)

4.1.36 PDF.Embed

Key: PDF.Embed Default: `false`

When converting multiple documents, embed any but the first document into the resulting PDF document as document level attachments.

Default: `false`, i.e. merge the pages of all documents.

4.1.37 PDF.Info

Key: PDF.Info

Document level attributes like Author, Title, etc.

E.g. `Author:Document Converter|Keywords:pdf-tools.com`

4.1.38 PDF.OWNERPASS

Key: PDF.OWNERPASS

The owner password for creating a password protected output PDF (The password required to modify the document security settings).

Note: Do not use this for PDF/A compliant output.

4.1.39 PDF.PERMISSION

Key: PDF.PERMISSION

An integer number representing the permission flag value controlling which features are allowed in a password protected PDF.

4.1.40 PDF.Producer

Key: PDF.Producer

This option takes a string as value and sets it as the producer entry in the metadata of the converted document.

4.1.41 PDF.USERPASS

Key: PDF.USERPASS

The user password for creating a password protected output PDF. (The password is required to open the document).

Note: Do not use this for PDF/A compliant output.

4.1.42 PDFOPTIMIZE

Key: PDFOPTIMIZE Type: Enterprise

Perform a predefined command on the output PDF prior to the PDF/A conversion (or just signing) stage.

4.1.43 SIGEMBEDOCSP

Key: SIGEMBEDOCSP Default: true

Embed revocation information such as online certificate status response (OCSP - RFC 2560) and certificate revocation lists (CRL - RFC 3280).

Revocation information is either an OCSP response or a CRL, which is provided by a validation service at the time of signing and acts as proof that at the time of signing the certificate is valid. This is useful because even when the certificates expires or is revoked at a later time, the signature in the signed document remains valid.

Embedding revocation information is optional but suggested when applying advanced or qualified electronic signatures.

The downsides of embedding revocation information are the increase of the file size (normally by around 20k) and that it requires a connection to a validation service, which delays the process of signing (normally by around 2 seconds).

Embedding revocation information requires an online connection to the CA that issues them. The firewall must be configured accordingly. In case a web proxy is used, it must be ensured the following MIME types are supported when using OCSP (not required for CRL):

application/ocsp-request
application/ocsp-response

4.1.44 SIGFIELDS

Key: SIGFIELDS Default: false

If **true**, replace signature placeholders by signature fields that can later be signed (e.g. with Adobe Acrobat), see the [Placeholder image](#).

4.1.45 SIGISSUER

Key: SIGISSUER

Certificate issuer: This value is optional; it is only needed if multiple certificates with the same name exist.

Issuer corresponds to the common name (CN) of the issuer. In the Windows' certificate store this corresponds to "Issued by".

4.1.46 SIGPAGE

Key: SIGPAGE Default: -1

The page number on which to place the signature (default: -1 for last page).

4.1.47 SIGPROFILE

Key: SIGPROFILE

Name of a signature configuration file having INI file Syntax with sections [Session] and [Properties]. The name path can be relative to the installation folder and may have the .ini extension omitted.

[Session] Section keys are: Provider, Name, Reason, Text1, Text2, TimeStampUrl, TimeStampCredentials, ProxyURL, ProxyCredentials, EmbedRevocationInfo, SignerFingerPrint, SerialNumber, ContactInfo, Email, Location, ImageFileName.

[Properties] Section keys are specific for the particular provider value. Please refer to the appropriate documentation.

4.1.48 SIGPROVIDER

Key: SIGPROVIDER

Signature provider string: to use a PKCS#11 provider, specify the path to the PKCS11 interface DLL, followed by a semicolon, then the slot number, then another semicolon, and then the user PIN.

Additional information about PKCS#11 and HSMs is available in the [Tech-Note for HSM](#).

4.1.49 SIGPROXYCRED

Key: SIGPROXYCRED

Proxy credentials (user:password).

4.1.50 SIGPROXYURL

Key: SIGPROXYURL

Proxy URL (for accessing time stamp and OCSP server).

4.1.51 SIGREASON

Key: SIGREASON

The signature reason.

4.1.52 SIGRECT

Key: SIGRECT

The signature rectangle (4 space separated float values: left bottom right top).

For invisible signatures, specify a rectangle with zero width and height.

4.1.53 SIGSTORE

Key: SIGSTORE

Certificate store (MY, ROOT, CA, ...).

4.1.54 SIGSTORELOCATION

Key: SIGSTORELOCATION

Certificate store location (0 local system; 1 current user).

4.1.55 SIGTSCRED

Key: SIGTSCRED

Time stamp server credentials if required (user:password).

4.1.56 SIGTSURL

Key: SIGTSURL

The URL of the trusted time stamp authority (TSA) from which a time stamp shall be acquired. E.g. tsu.my-timeserver.org.

This setting is suggested to be used when applying a Qualified Electronic Signature. Applying a Time-Stamp requires an online connection to a time server; the firewall must be configured accordingly. In case a web proxy is used, it must be ensured the following MIME types are supported:

application/timestamp-query
application/timestamp-reply

4.1.57 WARNSIGNATURES

Key: WARNSIGNATURES Default: false

true Warn if an input PDF files is digitally signed.

4.1.58 STAMP

Key: STAMP

Name of an XML stamp file.

Note: A suitable domain account must be specified for the watched folder service in the “login” tab to ensure that files on a network share can be accessed. The watched folder service will move the control file to the succeeded folder (or deleted it) on job completion. The documents referenced in the control file are left untouched.

4.1.59 TEXTBODY

Key: TEXTBODY Default: false

true Include the text body in the conversion of mail messages also, if HTML or RTF body is present too.

4.1.60 THUMBS

Key: THUMBS

Values **true** or **false**; using the option **THUMBS=true** will create thumbnails for all pages. Existing thumbnails will be replaced. THUMBS=false will have no effect on thumbnails; existing thumbnails in input documents will not be altered.

4.1.61 TIFF.BPI

Key: TIFF.BPI

Specify the Bits per pixel of a TIFF output.

4.1.62 TIFF.COMPR

Key: `TIFF.COMPR`

Set the TIFF compression type. Possible values are `raw`, `JPEG`, `flate`, `LZW`, `Group3`, `Group3_2D` and `Group4`.

4.1.63 TIFF.COMPR.BITON

Key: `TIFF.COMPR.BITON` Default: `Group4`

Set the TIFF compression type for bitonal images (black and white). Possible values are `raw`, `flate`, `LZW`, `Group3`, `Group3_2D`, `Group4` and `PackBits`.

4.1.64 TIFF.COMPR.CONTINUOUS

Key: `TIFF.COMPR.CONTINUOUS` Default: `TIFFJPEG`

Set the TIFF compression type for continuous color images. Possible values are `raw`, `JPEG`, `flate`, `LZW` and `TIFFJPEG`.

4.1.65 TIFF.COMPR.INDEXED

Key: `TIFF.COMPR.INDEXED` Default: `LZW`

Set the TIFF compression type for color indexed images. Possible values are `flate`, `LZW` and `raw`.

4.1.66 TIFF.COMPR.MRC

Key: `TIFF.COMPR.MRC`

`true` Activate MRC.

4.1.67 TIFF.COMPR.PDF

Key: `TIFF.COMPR.PDF`

Set the TIFF compression type for PDF to TIFF. Possible values are `raw`, `JPEG`, `flate`, `LZW`, `Group4`, `PackBits` and `TIFFJPEG`

4.1.68 TIFF.DITHERINGMODE

Key: `TIFF.DITHERINGMODE` Default: `1`

The dither mode to be applied during PDF to TIFF conversion with bi-level compression.

`1` (Floyd Steinberg) for JBIG2

4 (Group3 optimized) for Group3

5 (Group4 optimized) for Group4

4.1.69 TIFF.DPI

Key: `TIFF.DPI`

Set the target resolution in dots per inch. Applies to PDF to TIFF and Excel to TIFF.

4.1.70 TIFF.RENDERINGMODE

Key: `TIFF.RENDERINGMODE` Default: **1**

The rendering mode to be applied for PDF to TIFF conversion.

1 (accurate) for color conversions

0 (fast) for black and white (Group3, Group4, JBIG2 compression)

4.1.71 TIFF.ROTATE

Key: `TIFF.ROTATE` Default: **Auto**

Image rotation policy for PDF to TIFF conversion. Possible values are **Auto**, **None**, **Landscape** and **Portrait**.

4.1.72 TIFF.UNPACK

Key: `TIFF.UNPACK`

true Unpack samples to 8 bits per sample.

4.1.73 TIFF.XDPI, TIFF.YDPI

Key: `TIFF.XDPI` Default: **150**

Key: `TIFF.YDPI` Default: **150**

The horizontal and vertical resolution in dots per inch. To set the same resolution for both, you can use the option name [TIFF.DPI](#).

4.1.74 ZIPPED

Key: `ZIPPED`

Values **true** or **false**. When **true**, documents of a job are returned as multiple entries in a ZIP file rather than concatenated into a single TIFF or PDF file.

4.1.75 ZUGFeRD-invoice.xml:ADD

Key: ZUGFeRD-invoice.xml:ADD

A Add ZUGFeRD-invoice.xml files as attachment.

4.1.76 Special Key

Key: #

This is a special key controlling the way how documents are passed by the O2PProxyAPI.DLL to the server.

By default, documents are passed “by value”, i.e. their content is sent via the API. When **specifying this key at the very beginning of the options string**, document files are not copied, but their file system path is sent.

Obviously, this will only work when the file system path has a meaning on the server side, and the server has access privileges to read the documents and also create the resulting PDF.

The advantage of using this key is that the copying overhead is eliminated.

4.2 Document Options

Options related to the processing of a particular document.

It is possible to restrain options to the scope of a particular application or document by prefixing the option key with the application name or the document name, separated by a colon. This is useful when multiple documents are passed.

Example:

HTML:Outline=TITLE;URL:Outline=FILENAME;Outlook:Outline=%Subject%

Note: Document options can also be used at the job level. If a certain option value is evaluated, the settings specified at the document level have priority over settings specified at the job level.

4.2.1 ADD

Key: ADD

Specify that the document be embedded as a document level attachment into the resulting PDF document (value **A**).

Optionally, the document can also be converted to PDF and merged with the output document (value **B**).

4.2.2 ATT.Name

Key: ATT.Name

Specify the name to be used as the attachment name.

Using this document option implies `ADD=A`, unless `ADD=B` is specified explicitly.

The name `ZUGFeRD-invoice.xml` has a special meaning (also when specified via `ORIGINALNAME`). If an XML file with this name is passed, the converter service will propagate ZUGFeRD metadata from the XML document to the XMP metadata and embed the XML itself as an embedding (according to the ZUGFeRD specification).

4.2.3 ATT.Description

Key: ATT.Description

Specify a description string for the document to attach.

4.2.4 CMPRQUAL

Key: CMPRQUAL Default: 95

Compression quality (`1`, ..., `100`) to be applied for lossy (re-)compression during PDF to PDF/A conversion and image to PDF compression.

4.2.5 CODEPAGE

Key: CODEPAGE Default: CP_ACP

Set the code page for converting ASCII text files using MS Word. Default is `CP_ACP` (currently set default Windows ANSI codepage).

To disable codepage mapping and pass ASCII text files “as is” to MS Word, specify a value of `false`.

4.2.6 COLLCOMP

Key: COLLCOMP

If set to `true`, the elements of a composite document are merged (collected) into a single output document (default `false` when `ZIPPED=true` is specified for the job's output).

Composite documents are Mail messages containing attachments, ZIP and RAR files.

4.2.7 FAILFILES

Key: FAILFILES

Cause the conversion of files having an extension listed in the `FAILFILES` setting to fail.

The special value **.unknown** can be specified to match any file extension that is not assigned to a known document type. Use this setting if you want to prevent the conversion of specific document types. This is more specific than just disabling the use of the corresponding application (e.g. Excel), as some other application (e.g. OpenOffice) may still attempt to perform the conversion.

4.2.8 FORCEAPP

Key: **FORCEAPP**

Use the specified value in place of the file name extension for controlling which application is selected to open the document.

If the value is omitted (or empty), the original file's extension will be used to select the controlling application; if that application cannot open the file, no other attempt to open the document with other applications will be made.

Example: Select the application registered for PPT (i.e. PowerPoint), and name the file `f.pptx` to open it.

ORIGINALNAME=f.pptx; FORCEAPP=PPT

Note: For certain file types and applications, it is important that the correct file extension is provided. Visio for example will not open any document with an inappropriate extension.

4.2.9 HTZDOCS

Key: **HTZDOCS** Default: **.HTM.HTML.MHT.XML**

The list of file extensions for selecting the root document(s) in **.HTMZIP** files.

4.2.10 Include Visio Properties

Key: **IncludeStructureTags**

Key: **IncludeDocumentProperties**

Key: **IncludeBackground**

Create structure tags, include document properties or include the background layer when saving the document as PDF.

4.2.11 MAILPARTS

Key: **MAILPARTS** Default: **AB**

Select attachments and/or body of the mail message for conversion.

A Attachments only.

B Body only.

L All.

Use this option to determine which parts of a mail message shall be converted. Supported for Outlook MSG files and Internet Mail Messages.

4.2.12 ORIGINALNAME

Key: ORIGINALNAME

Specifies the original name of the document being passed.

The file name extension determines by which application(s) the file will be processed. Microsoft Visio for example will not even try to open a file if it does not have one of its known extensions.

The specified value is also the one that will be used when an outline (bookmark) title shall be set according to the document's file name.

4.2.13 Outline

Key: Outline

Specifies that outlines (bookmarks) shall be created for the document and any documents contained within it.

If any contained documents are processed to have outlines, these outlines will only be copied if the parent document also has an outline to which these can be attached.

The following special values are supported to be replaced by document related information:

FILENAME Is replaced by the file name (without extension) of the current document.

FILENAMEEX Is replaced by the file name and extension of the current document.

%Subject% Applicable for an Outlook mail or PDF document: supplies the subject field of the mail message.

Actually, it is possible to use other valid mail message properties, e.g. SenderName. %Subject% can be embedded in a plain text string.

TITLE Title entry of an HTML page on a web server.

(empty) An empty value has a special meaning: for an aggregate document, the outlines of the contained documents will be "lifted" a level and appear in the place of this document.

4.2.14 OutputType

Key: OutputType

Set the "OutputType" print option (PowerPoint). Default inherited from the service configuration.

4.2.15 PRINTCOLOR

Key: PRINTCOLOR Default: false

Applicable when [FORMAT=tiff](#); the default is **false** (convert to gray). Can also be specified as a document option.

4.2.16 PRINTDM

Key: **PRINTDM**

Values **A-1b**, **A-2u**, **1.7**, **1.6**, **1.5**, **1.4** (applicable for PDF conversions), or the name of a device mode file located in the installation folder.

Using this option setting will prepare the device mode settings of the printer to be used by office applications during the conversion of a document.

4.2.17 PW

Key: **PW**

Password to open a password protected document (Word, Excel, PDF, ZIP, RAR).

Note: AES-256 decryption for ZIP files is only available through the “7z” provider.

4.2.18 ResolutionDPI

Key: **ResolutionDPI**

The image resolution in dots per inch (DPI) for down-sampling images during conversion to PDF. The default is to not down-sample images.

When [ThresholdDPI](#) is also specified, down-sampling is performed only if the current resolution is above that threshold.

4.2.19 SAVEASPDF

Key: **SAVEASPDF**

true Use the Office “Save As PDF” feature rather than the 3-Heights™ PDF Producer.

4.2.20 ThresholdDPI

Key: **ThresholdDPI**

The DPI threshold for down-sampling images during conversion. See [ResolutionDPI](#).

4.2.21 TIFF.COMPR.BITONAL

Key: **TIFF.COMPR.BITONAL** Default: **Group4**

Compression method for bitonal images.

Values Group4, Flate, LZW, Group3, Group3_2D, JBIG2

4.2.22 TIFF.COMPR.CONTINUOUS

Key: TIFF.COMPR.CONTINUOUS Default: JPEG

Values JPEG, Flate, LZW, JPEG2000

4.2.23 TIFF.COMPR.INDEXED

Key: TIFF.COMPR.INDEXED

Default Flate for PDF/A output, LZW otherwise.

4.2.24 TIFF.COMPR.MRC

Key: TIFF.COMPR.MRC Default: false

Set true to enable mixed raster content compression.

4.2.25 TIFF.UNPACK

Key: TIFF.UNPACK Default: false

Set true to convert indexed images to continuous, permitting downsampling.

5 Licensing, Copyright, and Contact

PDF Tools AG is a world leader in PDF (Portable Document Format) software, delivering reliable PDF products to international customers in all market segments.

PDF Tools AG provides server-based software products designed specifically for developers, integrators, consultants, customizing specialists and IT-departments. Thousands of companies worldwide use our products directly and hundreds of thousands of users benefit from the technology indirectly via a global network of OEM partners. The tools can be easily embedded into application programs and are available for a multitude of operating system platforms.

Licensing and Copyright

The 3-Heights™ Document Converter is copyrighted. This user's manual is also copyright protected; it may be copied and given away provided that it remains unchanged including the copyright notice.

Contact

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