



Datalogics FLIP2PDF™

User Guide

FLIP2PDF version 2.0

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Introduction

What is FLIP2PDF?

FLIP2PDF is an application that converts disparate files and web content into standard PDF documents. With FLIP2PDF you can create uniform output content, allowing you to deliver a consistent customer experience.

FLIP2PDF is available for Linux and Windows 64-bit platforms, and you can install the software on local hardware or on a cloud computing server to configure and run automated or ad-hoc conversion requests using your command line interface. You can also make conversion requests through FLIP2PDF's API layer. FLIP2PDF supports conversion to PDF from the following file and content types:

- HTML files and web pages
- PostScript and Encapsulated PostScript
- Word documents, doc and docx
- Excel spreadsheets, xls and xlsx
- PowerPoint documents, ppt and pptx
- TIFF, JPEG, BMP, and PNG graphic files

What you get when you buy FLIP2PDF

- An EXE installation file for Windows 64 or BSX for Linux 64
- A command line utility for converting documents into PDF files
- A <u>C language API</u>
- An API <u>sample program</u> you can experiment with out of the box or use as a template for your own development
- Online access to user documentation on our digital <u>Developer Resources</u> site.
- Technical support from our team of digital document specialists and professionals. You can contact your <u>Datalogics Support representative</u> directly by electronic mail or visit our <u>support site</u> for this product.
- Regular software updates

NOTE: Make sure that any HTML or JavaScript files you attempt to process using FLIP2PDF come from a reliable source, or are scanned to make sure that they do not harbor any viruses or malware.

Some Notes on Installing and Running FLIP2PDF

If you purchase the Linux version of the product, please make sure that you install the following before you install FLIP2PDF:

- the Java Runtime Environment (JRE)
- the libcanberra-gtk-module library
- the libXinerama library

To run FLIP2PDF on Linux, use Redhat Enterprise Linux 7/CentOS 7.

FLIP2PDF and LibreOffice

Note that for Windows systems, FLIP2PDF and LibreOffice cannot be installed and running separately on the same server platform. The Windows versions of these two products are not compatible. This does not apply to Linux systems. To work properly, LibreOffice needs to be embedded as part of the FLIP2PDF installation instead.

Make sure, therefore, that you install FLIP2PDF on a server or on a Virtual Machine (VM) where LibreOffice is not already running.

If you decide to install FLIP2PDF on a server where LibreOffice is already running, you will need to uninstall LibreOffice first, and remove UNO_PATH from the environment variables from either Windows or Linux. In that event you will also need to preserve any custom templates or settings that you created for LibreOffice.

When you install FLIP2PDF, our software will install a version of LibreOffice as part of the broader installation process. At the beginning of the installation process, if the installer detects a copy of LibreOffice on the same system, you will be prompted to remove LibreOffice, and then the installation process will end with no changes being applied to your system.

Environment Variables

To install FLIP2PDF run the executable for Windows (such as setup_FLIP2PDF_Pro_Win64_2.0.0.exe) or the self-extracting script file for Linux (such as setup_FLIP2PDF_Pro_Linux64_2.0.0.bsx).

For either platform, when you install the software the executable identifies the product as Pro or Premium, and the version number of the release. The Windows installation program for FLIP2PDF adds the location of the FLIP2PDF executable to the PATH in the Windows Environment Variables, so you can run "flip2pdf.exe" from anywhere. For Linux, if you want to run the executable from anywhere, you need to manually add the location of the FLIP2PDF executable to the PATH variable.

The License and the Activation Key

When you first evaluate or purchase FLIP2PDF, you will receive an activation key, and you will be prompted to enter this key when you install the software. In response the system generates a license file for you, flip2pdf_pro.lic or flip2pdf_premium.lic, and stores it in the software installation directory.

If you later receive a new activation key for FLIP2PDF, you will need to enter it as you did your original activation key when you first installed the product. Delete the license file from the installation directory and then run the executable, flip2pdf.exe or flip2pdf.bsx. You will be prompted to enter the activation key. Type or paste the key value as you did before. The system will create a new license file for you, and you can continue to use the product.

Note that if you don't enter the activation key value when you first install the product, or enter it incorrectly, you will be prompted to enter the value again the next time you run FLIP2PDF. But if you enter

the key later, the system will create the license file in the working directory where the executable is run. In that event you will need to move the license file from the working directory to the installation directory.

Working with Fonts

By default FLIP2PDF automatically embeds in output PDF documents any fonts used to create those documents. This is considered a best practice for creating PDF files. With the fonts embedded in a PDF file, that file will always look the same wherever it is opened, because the viewer tool (such as Adobe Reader) does not need to look for a font on the local machine. But to generate the PDF document with the embedded font using FLIP2PDF, the software must be able to find it.

Any font used in a PDF document generated by FLIP2PDF must be installed on the machine running FLIP2PDF. Otherwise FLIP2PDF will look for an alternate font file that can be applied to the PDF document as a substitute. If you are using a standard font, like Times New Roman in English, the font is probably on the machine already, installed with the Windows operating system or with Microsoft Office. But you may need to manually install a specialized font on the machine, such as a font with Arabic, Mandarin, or Korean characters, if you seek to use FLIP2PDF to create a PDF document based on a source file using those characters.

Keep in mind that you might create a Word document with Arabic characters on one machine and then transfer that file to another for processing with FLIP2PDF. For example, you might edit a document with Arabic characters in Word and then copy it to a directory on a network server, so that it can be included in an automatic overnight batch process to convert the files in that directory to PDF documents using FLIP2PDF. If that Arabic font is not installed on the server running FLIP2PDF, the Arabic characters will not appear in the PDF output document.

It is also possible to embed a specialized font in a Microsoft Office source document, such as a Word file. Then FLIP2PDF can find the font in the source file itself, rather than on the machine.

Command Syntax

Required and optional values

Every command statement you enter for FLIP2PDF must include the following values:

- 1. the executable name
- 2. the name of the input file, or a web site address if you want to convert a web page to a PDF file
- 3. the name you want to assign to the output PDF file

You can also provide the name of the JSON profile file but that is optional.

```
flip2pdf --input inputname --output outputfilename --profile profilename
```

The JSON profile file includes a list of settings that define exactly what kind of PDF output document you want to produce. See "Setting up your Profile" on page 9.

Two optional values are also available:

- --password. If an input document has a password, you can include this value to provide a password so that FLIP2PDF can read and open that file. This only works with Office input files.
- --encrypt. Use this value to assign a password to a PDF output document. This only works with Office input files.
- --joboptions. Use this value to add the use of a JobOptions file during conversion. This only works with Postscript input files.

For each command line option, you can use either the short or long notation:

- -i [--input]
- -o [--output]
- -j [--profile]
- -p [--password]
- -e [--encrypt]
- -b [--joboptions]

Type flip2pdf --help at the command line for a list of software options.

What a basic command looks like

A command might look like this:

```
flip2pdf --input TestDocument.docx --output TestDocument.pdf --profile
standard.json
```

If you are converting an input file that is password protected, you can supply the password to open that file using a command syntax like this:

flip2pdf --input TestDocument.docx --output TestDocument.pdf --profile standard.json --password Fischer@27

Then, if you want to assign the same password ("Fischer@27") to the PDF output file, use this command syntax to supply both passwords:

```
flip2pdf --input TestDocument.docx --output TestDocument.pdf --profile
standard.json --password Fischer@27 --encrypt Fischer@27
```

The FLIP2PDF software assumes that the file extension you provide for an input file is valid.

Providing path names

You don't need to include the absolute path for any of these files if the input file and profile are stored in the current working directory, and if you save the output file to this directory as well.

If you want FLIP2PDF to take an input file from one directory and save the output to another, however, you need to provide the path as well as the file name:

```
flip2pdf --input C:\Datalogics\Source\AnnualReport2016.docx --output
C:\Datalogics\OutputFiles\AnnualReport2016-B.pdf --profile standard.json
```

If any of the file or path names include spaces, use quotes around the name:

```
flip2pdf --input "C:\Datalogics\Source\Annual Report 2016.docx" --output
C:\Datalogics\OutputFiles\AnnualReport2016-B.pdf --profile standard.json
```

Converting web page content to PDF

You can also convert an HTML file or a web page to PDF output. Enter the name or the name and the path for that HTML file in the command line statement, as you would any other kind of file, like this:

```
flip2pdf --input C:\Datalogics\Source\AnnualReport2016.html --output
C:\Datalogics\OutputFiles\AnnualReport2016-B.pdf --profile standard.json
```

If you want to convert a web page to a PDF file, enter the web site address in the command line statement instead.

flip2pdf --input https://www.datalogics.com/products/pdftools/flip2pdf/ -output C:\Datalogics\OutputFiles\FLIP2PDF_Page.pdf --profile standard.json

The product will convert all of the content shown on that page to a PDF output file, including HTML, stylesheets, and graphics.

Using the JSON profile

The JSON profile file is not required. If you are content to use the default settings provided with the FLIP2PDF software, you can enter a command statement like this:

```
flip2pdf --input TestDocument.docx --output TestDocument.pdf
```

If you do specify a JSON profile file name in your command statement, you can use either the relative or the absolute path for that file. If you don't provide an absolute path for the JSON profile, FLIP2PDF will look for the file in the working directory. If the file is not in the working directory, FLIP2PDF will look for the JSON profile in the FLIP2PDFProfiles directory where the product was installed.

If FLIP2PDF can't find the JSON profile, you will see an error message.

These are the FLIP2PDF default settings:

output	PDF file
compression method	jpeg
downsampling	All images are downsampled by default to 300 DPI
tagged PDF	Do not create a tagged PDF document when creating an Office file

In other words, if you don't include a JSON profile in your command line statement FLIP2PDF will generate a standard PDF document. The file will not be tagged, and any graphics found in a PostScript or Microsoft source document or on a web page will be downsampled to 300 DPI and compressed using the jpeg compression method. Also, the fonts used by the PDF output file will be embedded in that PDF file.

Conversion Options

Using FLIP2PDF, you can select the following options for the PDF output in your JSON profile file:

pdf-output-type	Create a PDF, PDF/A, or PDF/X	Microsoft Office: PDF, PDF/A-1
	document.	PostScript: PDF, PDF/X-3
compression	Select either lossy (JPEG) or lossless	Microsoft Office: jpeg, flate
	(Flate/ZIP) compression for images	PostScript: jpeg, flate
	embedded in PostScript or Microsoft	HTML: jpeg, flate
	Office files, or found on web pages for	
	HTML conversion.	

downsample	Downsample images from the input	Microsoft Office: on, off
	files or preserve the original resolutions	PostScript: on, off
	for these images.	HTML: on, off
downsampling-	Set the resolution for downsampling	Microsoft Office: 75, 150, 300, 600,
dpi	images in dots per inch .	1200
		PostScript: 75, 150, 300, 600, 1200
		HTML: 75, 150, 300, 600, 1200
rotate-pages	Control the interpretation of the	PostScript: all, none
	PostScript "ViewingOrientation"	
	parameter.	
tagged-pdf	Create a tagged PDF document for use	Microsoft Office: on, off
	in providing accessibility to disabled	
	users.	
page-size	Select a page size for the PDF file.	HTML: letter, legal, ledger, A3, A4, A5
page-margin	Set margins for a PDF file in inches (in)	HTML: "0.75in", "15mm"
	or millimeters (mm).	
page-orientation	Set the page orientation to portrait or	HTML: portrait, landscape
	landscape.	
web-layout	For web pages with responsive design,	HTML: desktop, tablet, mobile
	select the web layout intended	
	desktop, tablet, or mobile viewing.	

PDF/A and PDF/X

For PostScript files, select either PDF or PDF/X as output in the JSON profile.

For Office files, select either PDF or PDF/A as output in the JSON profile. FLIP2PDF can generate PDF/A-1a output files.

Note: FLIP2PDF can generate PDF/A archive files but the software cannot certify that these files satisfy ISO standards for PDF/A conformance.

Lossy or Lossless Compression

Lossy and lossless refer to the approach used for compressing data. For lossless, all of the data in the image is preserved. The quality of the image does not change, and it can be uncompressed to its original state. Lossy compression permanently removes data from the image file, such as pixels, reducing the image resolution. Files reduced using lossy compression will be considerably smaller but will not print or display as well as those compressed using lossless compression.

For lossless compression, you would enter this statement in the JSON profile:

"compression" : "flate"

For lossy, use this value instead:

"compression" : "jpeg"

Downsampling

Downsampling involves reducing the size of a graphic file when generating output. If you know that you do not need high resolution images embedded in a PDF document, and you are working with a Microsoft Office or PostScript source file, you can downsample these images to a lower resolution to reduce the size of the PDF document itself. The downsampling process involves changing the width and height of an image in pixels to reach a given target resolution that FLIP2PDF allows you to select. Target options for downsampling images include 75, 150, 300, 600, and 1200 Dots per Inch (DPI).

FLIP2PDF is set up to downsample images by default, and each one to 300 DPI. If you set the downsample option to "off" the process will preserve the original resolution of each image in the PDF output file. Or you can set downsample to "on" and then select your own target resolution, greater or less than 300 DPI. The software preserves any design or size information found in an image.

Tagged PDF Document

For Microsoft Office files, you can choose to produce a tagged PDF. A tagged PDF document contains metadata to describe instructions related to headers and other content on a page. Tagging is generally used with a PDF document to meet accessibility requirements. For example, tags in a PDF document might be placed so that text, headings, footnotes and other content in the document can be interpreted by a screen reading software tool. The tool could use this information to read text in the document out loud for a blind person or respond to voice commands for a reader who can't easily use a mouse or keyboard.

Margins, page size, and page orientation

For HTML files and web pages, you can set options to define a margin around the output PDF document pages, choose a standard PDF page size, or set those pages to landscape orientation rather than portrait.

PostScript files contain information on how pages should be oriented. You can control whether this information will be respected or ignored for all pages.

Select the web layout for responsive web pages

For web pages designed to be responsive to different device screen sizes, you can choose the layout intended for desktop, tablet, or mobile viewing. This will not affect the size of the output PDF but may result in different layout of the content, depending on whether the HTML input supports responsive design.

Setting up your Profile

Your JSON profile file (or files) should include a list of settings that define exactly what kind of PDF output document you want to produce. We provide a default JSON file called "standard.json." You can edit this JSON profile as you like or use it as a template for creating your own.

Every setting for FLIP2PDF is optional. That means then that a setting is only applied if it is included in the JSON profile. Flag settings must be set to "on" to be activated. Settings that are turned off do not need to be defined in the JSON profile file.

You can use the JSON validator JSONLint to check your JSON syntax (<u>https://jsonlint.com</u>).

The standard.json Profile

{

This is what the standard.json profile looks like, with all options provided.

```
"postscript": {
    "color-images": {
      "downsample" : "on",
      "downsampling-dpi" : 300,
      "compression" : "jpeg"
    },
    "gray-images": {
      "downsample" : "on",
      "downsampling-dpi" : 300,
      "compression" : "jpeg"
    },
    "mono-images": {
      "downsample" : "on",
      "downsampling-dpi" : 300
    },
    "rotate-pages" : "all",
    "pdf-output-type" : "PDF"
},
"office": {
    "images": {
      "downsample" : "on",
      "downsampling-dpi" : 300,
      "compression" : "jpeg"
    },
    "tagged-pdf" : "off",
    "pdf-output-type" : "PDF"
},
"html": {
    "images": {
```

```
"downsample" : "on",
    "downsampling-dpi" : 300,
    "compression" : "jpeg"
    },
    "web-layout" : "desktop",
    "page-size" : "letter",
    "page-margin" : "l.0in",
    "page-orientation" : "portrait"
  }
}
```

Converting PostScript Files

JSON profile parameters:

downsample	Set this value to "on" if you want to enable the ability to select a resolution value for downsampling graphics images in a PostScript file.		
	downsampling-dpi	Enter a resolution value, in Dots per Inch, if you want to reduce the resolution of the graphics embedded in a PostScript file. This may result in a smaller PDF output document. The available options are 75, 150, 300, 600, and 1200. Defaults to 300 DPI.	
compression	Enter a compression method to use for graphics images in PostScript files. Enter jpeg or flate. Defaults to jpeg.		
rotate-pages	Set this value to "all" to respect the "ViewingOrientation" setting in the PostScript file. Set this value to "none" to ignore the setting. This will affect the orientation of the pages in the PDF output.		
pdf-output-type	Enter an output type, PDF, or use PDF/X-3 for graphics use. Defaults to PDF.		

If you wanted to convert a PostScript file with embedded color images, reduce the resolution for these images to 600 DPI while using the default "jpeg" compression method, and save the PDF output documents as PDF/X files, the PostScript section of your JSON profile might look like this:

```
{
    "postscript": {
        "color-images": {
            "downsample" : "on",
            "downsampling-dpi" : 600,
        }
        "pdf-output-type" : "PDF/X-3"
    }
}
```

If you weren't planning to convert any PostScript files into PDF documents, you could leave the PostScript parameters out of your JSON profile.

Converting Microsoft Office Files

JSON profile parameters:

downsample	Set this value to "on" if you want to enable the ability to select a resolution value for downsampling graphics images in a Microsoft Office file.		
	downsampling-dpi	Enter a resolution value, in Dots per Inch, if you want to reduce the resolution of the graphics embedded in an Office file. This may result in a smaller PDF output document. The available options are 75, 150, 300, 600, and 1200. Defaults to 300 DPI.	
compression	Enter a compression method to use for color or grayscale graphics images in Office files. Enter jpeg or flate. Defaults to jpeg.		
tagged-pdf	Set to "on" to create a tagged PDF document. The tagged PDF feature only works with Office documents. You could add tags to a Microsoft Word document and then enable the tagged-pdf option, and FLIP2PDF would create a tagged PDF in response. Defaults to off.		
	Note that if you select PDF/A as the pdf-output-type parameter, the software will generate a tagged PDF document as the output file. It will ignore the setting for the tagged-pdf parameter.		
pdf-output-type	Enter an output type, PDF or PDF/A-1. Defaults to PDF.		

You might, for example, want to convert a folder containing Microsoft Word documents with embedded images and downsample those images to 300 DPI using the JPEG compression method while saving the output files as PDF/A output files. You don't need to create tagged PDF documents. The Microsoft Office section of your JSON profile might look like this:

```
{
    "office": {
        "images": {
            "downsample" : "on",
            "downsampling-dpi" : 600,
            "compression" : "jpeg"
        },
        "pdf-output-type" : "PDF/A-1"
    }
}
```

If you weren't planning to convert any Office files into PDF documents, you could leave the Office parameters out of your JSON profile.

Converting HTML Files and Web Site Pages

JSON profile parameters:

downsample	Set this value to "on" if you want to enable the ability to select a resolution value for downsampling graphics images found on a web site.			
	downsampling-dpi	Enter a resolution value, in Dots per Inch, if you want to reduce the resolution of the graphics found on a web site. This may result in a smaller PDF output document. The available options are 75, 150, 300, 600, and 1200. Defaults to 300 DPI.		
compression	Enter a compression i Enter jpeg or flate. De	Enter a compression method to use for graphics images found on a web site. Enter jpeg or flate. Defaults to jpeg.		
web-layout	Select an option for the web layout to use for responsive HTML pages— desktop, tablet, or mobile. Defaults to desktop. In Responsive Web Design, a web page can be designed to appear differently depending on the screen size of the device used to display that web page. It is easier to read and navigate a web site on a mobile phone if that web site is specifically designed to present on a mobile phone. With this option in FLIP2PDF, you can select the layout for responsive pages that is best suited for your needs. Each option provided corresponds to a set of pixel measurements that sets the web viewport. The default for desktop viewing, for example, is 1280 x 1024 pixels.			
page-size	Defaults to letter. Enter the size for the page in the PDF output document, letter, legal, ledger, A3, A4, or A5.			
page-margin	Defaults to one inch margins on each PDF output page. Enter a number and unit (inches or millimeters) to set a page margin. For example, enter "2.0in" for two inches or "10mm" for ten millimeters.			
page-orientation	Defaults to portrait. Set this value to "landscape" to generate landscape PDF documents instead.			

You might, for example, want to convert a web page and downsample the images shown on that page to 600 DPI using the JPEG compression method. You could set the page margins to 10 millimeters for a standard A4 page size and use the landscape page orientation, while using the tablet web page layout. The HTML section of your JSON profile might look like this:

```
}
"html": {
    "images": {
        "downsample" : "on",
```

```
"downsampling-dpi" : 600,
    "compression" : "jpeg"
},
    "web-layout" : "tablet",
    "page-size" : "A4",
    "page-margin" : "10mm",
    "page-orientation" : "landscape"
}
```

If you weren't planning to convert any HTML files or web sites to PDF documents, you could leave the HTML parameters out of your JSON profile.

Converting Graphics Files

Your command line statement for converting graphics files might look like this:

flip2pdf --input TestImage.jpg --output TestImage.pdf

There are no options to enter in the JSON profile for converting graphics image files.

FLIP2PDF does not downsample graphics files when converting them to PDF documents. The product will use the resolution assigned to each BMP, JPEG, TIFF, or PNG file when creating the PDF output. Sometimes, however, an image file does not have resolution information saved with that file. If an image does not have a defined resolution, FLIP2PDF writes it to 72 DPI when generating the output PDF document.

FLIP2PDF uses the flate compression method when converting BMP, PNG, and TIF graphics files to PDF documents. For JPG files, the product uses jpeg compression.

FLIP2PDF preserves transparencies in PNG and TIFF images in the PDF output and preserves the color space for raster images that are RGB, CMYK, or Grayscale. FLIP2PDF does not process TIFF files that use color spaces other than Grayscale, RGB or CMYK.

Using the FLIP2PDF Software Development Kit (SDK)

FLIP2PDF includes a simple C language API for converting input files into PDF documents for both Windows and Linux platforms.

Note that the structure used by the API header file for FLIP2PDF follows the pattern of the JSON profile file used for the FLIP2PDF command line utility. The FLIP2PDF API declarations are found in the header file FLIP2PDFAPI.h. Under the FLIP2PDFParameters control structure we offer a series of other control structures for PostScript and Microsoft Office files.

The product does not offer any settings for processing image files being converted into PDF output documents, such as JPG, BMP, or PNG files. The API uses the resolution defined in the input graphic file, and assigns a default compression method, jpeg for JPG files and Flate for all other file types.

When you convert HTML to PDF, the PDF output is not tagged, and the output is a standard PDF file by default. It is not possible to convert HTML content to PDF/A.

Parameter Syntax

parameters.postscript.colorImages.downsamplingDpi parameters.postscript.monoImages.downsamplingDpi parameters.postscript.grayImages.downsamplingDpi parameters.postscript.colorImages.compression parameters.postscript.monoImages.compression parameters.postscript.grayImages.compression parameters.postscript.rotatePagesType parameters.postscript.outputType parameters.postscript.jobOptions

parameters.office.images.downsamplingDpi
parameters.office.images.compression
parameters.office.taggedPdf
parameters.office.outputType
parameters.office.password
parameters.office.encrypt

parameters.html.images.downsamplingDpi
parameters.html.images.compression
parameters.html.webLayout
parameters.html.pageSize
parameters.html.pageMargin
parameters.html.pageOrientation

Settings

Parameters	Description	Settings	
ImageDownsamplingDpi_t	PostScript files	Disabled = -1	
	Microsoft Office files	300 = 0 (default)	
	HTML files and web pages	75	
		150	
	Select a resolution value in Dots per Inch	600	
	to reduce the resolution of graphics	1200	
	embedded in the input. The options are		
	75, 150, 300, 600, and 1200 DPI. The		
	default value is set to 300 DPI. Changing		
	the resolution of images in the input file		
	may result in a smaller PDF output		
	document.		
	To disable the feature to downsample		
	images in a file, use this parameter		
	setting:		
	ImageDownsamplingDpi_Disabled = -1		
	If downsampling is disabled ELIP2PDE		
	will conv any images found in an import		
	file directly to the PDF output file		
	without reducing the resolution.		
This parameter sets the resolution	on for downsampling color images in a PostScrip	t input file to 300 DPI:	
parameters.postscript.co	orImages.downsamplingDpi = ImageDown	samplingDpi 300:	
parameter 5. poblobor 1 po 100.			
ImageCompression_t	PostScript files	JPEG = 0	
	Microsoft Office files	Flate = 1	
	HTML files and web pages		
	Select a compression method to use for		
	graphics images in the input file, JPEG or		
	Flate.		
This parameter sets the compression method for images in an Office input file to Flate:			
parameters office images compression - ImageCompression Flate.			
TaggedPDF_t	Microsoft Office files only	OFF = 0	
		ON = 1	
	Set to ON to enable. Defaults to OFF.		
	This parameter creates a tagged PDF		
	document for an input file. If you		
	enable TaggedPDF, FLIP2PDF creates a		

This parameter creates a tagged parameters.office.tagged	tagged PDF document corresponding to the semantic structures found in the Office source file. Titles, headings, lists and other structures in the document are expressed in the output PDF. PDF output document from an Office file: Pdf = TaggedPDF_ON;	
RotatePagesType_t	PostScript files only	All = 0
Notatel ugest the_t		None = 1
	Select whether the PostScript	
	"ViewingOrientation" setting will be	
	respected for all pages, or no pages.	
This parameter creates a PDF ou PostScript file: parameters.postscript.Ro	tput document whose pages ignore the "Viewing tatePagesType = RotatePagesType_None;	gOrientation" setting in the
PDFOutputType_t	PostScript files	PDF = 0
	Microsoft Office Files	PDFA1
		PDFX3
	Select an output type. Defaults to PDF.	
	PDFA1 (PDF Archive) is only available for Office files.	
	PDFX3 is only available for PostScript files.	
	If you select PDFOutputType_PDFA1, to generate a PDF/A output file, the software will generate a tagged PDF document as the output file. It will ignore the setting for the TaggedPDF	
This reverse to restart a DDF (A	parameter.	
This parameter creates a PDF/A	output document from an Office file:	
<pre>parameters.office.outputType = PDFOutputType_PDFA1;</pre>		
Password_t	Microsoft Office files only	Password term
	If an input document has a password, you can include this value to provide a password so that FLIP2PDF can read and open that file.	
This parameter allows the system to open a password-protected input Office file:		
parameters.office.password = Password_Fischer@27;		

Encrypt_t	Microsoft Office files only	Password term	
	Use this value to assign a password to a		
	PDF output document.		
This parameter allows the system	n to assign a password to a PDF output documer	it based on an Office file:	
parameters.office.encrypt	= Encrypt_Fischer@27;		
JobOptions_t	Postscript files only	JobOptions term	
	Use this value to use a JobOptions file		
	during conversion.		
This parameter allows the system	n to use a JobOptions file during Postscript conv	ersion to PDF:	
parameters.postscript.job	OOptions = "//AJobOptionsFile.job	ooptions";	
WebLayout_t	HTML/Web sites only	desktop	
		tablet	
	Select a display target for the PDF	mobile	
	output document, based on the device		
	used to display the source web page.		
This parameter allows the system	n to configure the PDF output document based o	on the device to use to display	
that output document, in this exa	ample, for a tablet:		
nowenchaus html webters	- Wahrawaya Mahlat		
parameters.ntmi.weblayout	= weblayout_lablet;		
PageSize_t	HTML/Web sites only	letter	
		legal	
	Use this value to define the paper size to	ledger (11x17)	
	use for the PDF output file.	A3	
		A4	
		A5	
This parameter allows the system to set the page size to A4, the European standard:			
parameters html pagedias	- PageSize 14.		
parameters.ntmr.pagesize	- ragesize_A4;		
PageMargin_t	HTML/Web sites only	Number of inches or millimeters with "in" or	
	Use this value to define name margins in	"mm"	
	the PDF output file.		
This parameter directs the system to set the page margins to 10 millimeters, rather than the default of one inch:			
<pre>parameters.html.pageMargin = PageMargin_10mm;</pre>			
PageOrientation_t	HTML/Web sites only	portrait or landscape	
	Use this value to set the page		
	orientation to landscape rather than		
	portrait.		
This parameter allows the system	n to set the page orientation sideways, to landso	ape:	

parameters.html.pageOrientation = PageOrientation_Landscape;

Functions

Parameters	Description	Settings
FLIP2PDFInitialize()	The API must be initialized before use. The API can only be initialized once for a process.	
FLIP2PDFInitParameters()	The FLIP2PDFParameters block must be initialized before the block can be used.	
FLIP2PDFConvert()	Convert the input document into a PDF file	Parameters Path to the input file Path to the PDF file to be generated Path to a URL for a web site
FLIP2PDFShutdown()	This method shuts down and releases resources. It should be called before the program exits.	
DetermineFileTypeFormat()	Define the type of input file.	Office binary file (doc, xls, ppt) = 0 Office Open XML (docx, xlsx, pptx) = 1 PostScript = 2 Encapsulated PostScript = 3 Binary Encapsulated PostScript = 4 BMP = 5 JPG = 6 PNG = 7 TIFF = 8 HTML = 9
IsFilePathPresent()	Determine if an input file or directory exists so that FLIP2PDF can access the input file and process it.	File path not found = 0 File path exists = 1

The FLIP2PDF Sample Program

We provide the Conversion sample program to demonstrate how to work with the FLIP2PDF API to convert documents to PDF files. You can use this code as a model for creating your own programs, or simply copy and paste this sample code to use as your own. Microsoft Visual Studio 2017 or later is required to build the FLIP2PDF sample program.

This program calls the Initialize and Shutdown functions once, as an example. Every call to Initialize should be matched with a Shutdown call.

The sample allows you to specify the names of the input files and the output PDF document. You can also change settings in this sample to complete a variety of processing steps when generating a PDF document, such as:

- setting up an Office input file to use Flate compression for embedded graphics images
- downsampling images in an Office input file to 150 DPI
- generating a PDF/X-3 output file from a PostScript input file

Important dependencies for building your own application

The sample projects that are included in the installation package are set up to produce the file structure required by FLIP2PDF to execute correctly. When building your own application for the FLIP2PDF library, the following files and folders must be located at the same level as the application executable:

- PS.VM
- superatm.db
- startupNORM.ps
- flip2pdf_pro.lic or flip2pdf_premium.lic (for subscription-based versions only)
- ICCProfiles directory
- Fonts directory
- Resources directory

The FLIP2PDF library file finds the directory where the application executable is stored and looks for these files and folders in that directory. If you have installed the Linux version of FLIP2PDF, when you run the makefile to build the Conversion sample program, it copies the required files and folders to Samples/Conversion, as well as the license file. The Windows solution file will place the Conversion executable at the top level install directory where the dependencies can be found.

Error Codes

- 1001 The product found a syntax error with the command line options.
- 1002 The JSON profile file was not found.
- 1003 There was a syntax error in the JSON profile.
- 1004 One of the values assigned to a parameter in the JSON profile was not valid.
- 1005 The command line statement is missing a required argument for the input file.
- 1006 The command line statement is missing a required argument for the output file.
- 1007 The input file was not found.
- 1008 The input file found has an unsupported file type.
- 1009 The software could not connect to the Internet to verify the product license.
- 1010 License activation unknown.
- 1011 License inactive. Your license may have been disabled by the vendor.
- 1012 License activation already in use by another user.
- 1013 License expired.
- 1014 License failed. Verify that the activation key was entered properly.
- 1015 There was a problem in setting up Office. Try restarting your system.
- 1016 There was a problem with converting an Office file. The file may be corrupt or mislabeled.
- 1017 There was a problem in creating output for an Office file. The file may be corrupt or mislabeled.
- 1018 There was a problem in reading the Office input file. The input path may be invalid.
- 1019 An error occurred in creating output for an Office file. The output path may be invalid.
- 1020 The Resources directory for Office files is missing. Please check your product installation or reinstall the software.
- 1021 The PostScript ps.vm file is missing. Please check your product installation or reinstall the software.
- 1022 The PostScript superatm.db file is missing. Please check your product installation or reinstall the software.
- 1023 The PostScript startupNORM.ps file is missing. Please check your product installation or reinstall the software.
- 1024 The PostScript ICCProfiles directory is missing.
- 1025 The PostScript fonts directory is missing.
- 1026 There was a problem in converting a PostScript file. The file may be corrupt.
- 1027 There was a problem creating the output for a PostScript file. The file may be corrupt.
- 1028 Encapsulated PostScript files with a binary preview are not supported.
- 1029 FLIP2PDF could not create a PDF/X compliant document from the PostScript input file. Please change the PDF output type to PDF.
- 1030 You tried to start the FLIP2PDF API, but the API was already initialized and running.
- 1031 The FLIP2PDF API has not yet been initialized. FLIP2PDFInitialize() must be called first.
- 1032 Log files created after an Office conversion failed are still present and need to be deleted.

When you start FLIP2PDF, the product looks for any error log files left behind by an Office conversion and deletes them if found. These files can keep FLIP2PDF from starting. If FLIP2PDF fails to delete these files properly, you will see this error message.

The log files are found in this directory in Windows:

```
C:\Users\<<username>>\AppData\Roaming\LibreOffice\4\crash
```

And in this directory in Linux:

```
~/.config/libreoffice/4/crash
```

Delete every file you find in this location and then try to start FLIP2PDF again.

- 1033 Problem converting PDF document to HTML. Try changing to a different web layout, like using "desktop" instead of "tablet."
- 1034 The joboptions path specified by the -joboption parameter does not exist.

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