

# PDF-to-TIFF (MP2T.EXE)

**Command-Line Version**

Version 5.0

## User Guide

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Please print this User Guide for easy reference

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## Introduction

The MP2T.EXE program converts PDF files to TIFF files. It is a command-line program and processes one file per call; a single-page PDF file is converted to a single-page TIFF file and a multi-page PDF file is converted to an equivalent multi-page TIFF file. The program supports both text and image-based PDF files.

Please visit <http://www.hsm.ch> (German) or <http://www.expert-tools.com/ENGLISH> (English) for the DLL and the user-interactive versions of the PDF-to-TIFF utility.

## Installation

The program files are supplied in a zip file. Please use the following procedure to install the program:

1. Create a new folder for the program. We recommend that you call the new folder C:\PDF2TIFF but you may give the folder any name of your choice.
2. Unzip the zip file into that newly created folder. The correct directory structure with a sub-directory called PSFONTS will automatically be created. Do not change the directory structure.

## Demo Version

The Demo Version is intended for you to test the program for its suitability. The Demo Version outputs TIFF files that are crippled with a fine diagonal line drawn from the upper right corner to the lower left corner of the image. The licensed version will not cripple the output images in any way.

The actual trial version can be downloaded at:

<http://www.expert-tools.com/ENGLISH/download.html>

## Requirements

- Windows 98/Me/NT4/2000/XP/VISTA
- 256MB memory
- FreeType Engine (supplied and installed with MP2T), see section below.

## How to Use

MP2T is a command-line-driven program. The program is run with a Command String that represents the arguments/parameters for the conversion. Some samples are provided in the 'Simple Sample' section. MP2T can be executed in the following ways:

1. Start Button  
Click on the Start button in the lower left corner of the screen. Select Run and a dialog box will open, in which you can enter the path to the MP2T.EXE and the Command String. Press OK.  
Example: C:\PDF2TIFF\MP2T.EXE C:\xxx\xxx.pdf
2. Windows Command Prompt  
Run the Windows-Command Prompt (cmd.exe). Enter the path to the MP2T.EXE and the Command String. Press Enter.  
Example: C:\PDF2TIFF\MP2T.EXE C:\somedir\somefile.pdf
3. From an Application  
In your own application, add code to launch the MP2T.EXE with the Command String.  
Example: Result=Shell("C:\PDF2TIFF\MP2T.EXE C:\xxx\xxx.pdf", 1)

## Simple Sample

For a demonstration of a simple use, try the following command:

```
C:\PDF2TIFF\MP2T.EXE C:\xxx\xxx.pdf
```

Where "C:\xxx\xxx.pdf", is the path to the PDF file that you wish to convert to a TIFF (if the file name includes a space, then you must encapsulate it in quotes). Make sure that you verify the path to the MP2T.EXE executable. In this case, since you are not using any optional arguments, this call will create a monochrome TIFF file which has the name of the input file with .tif extension and place it in the same folder as the input file. From this simple case you can expand and add arguments/parameters for compression, color, resolution, size, and the page range. These options are explained in the sections below.

## Command String

Usage:

```
mp2t [[-Bb] [-Cc] [-Xx] [-Yy] [-Ff] [-Uu] [-Ww -Ll] [-Ss] [-Dd]] [-Pp] [Ee]]  
<pdf file>
```

Where

-Bb is the Bits-per-Pixel (color);  
-Cc is the Compression;

-Xx is the Horizontal Resolution (X);  
-Yx is the Vertical Resolution (Y);  
-Ff is the First Page (beginning of page range, 'From');  
-Uu is the Last Page (end of page range, 'Until');  
-Ww is the Width (pixels) \*;  
-Ll is the Length (pixels)\*;  
-Ss is the setting for the Split function (serialized single-page output);  
-Dd is the Destination File;  
-Ee is the setting to eliminate the source file;  
-Pp is the Password

All, except <pdf file>, are optional. For details, see below.

\* Width and Length must be used together.

The Command String has a very simple syntax, yet it allows for many options.

### Source File

In its most simple form, the Command String is simply the path name of the PDF file that you are converting. If you only specify the PDF file, the TIFF file will have the same name as the PDF file but with .tif extension and the TIFF file will be saved in the same folder as the source-PDF file. If the file name includes spaces, the file name must be encapsulated in quotes. The samples in the 'Simple Sample' section above use the simple Command String. This single argument is mandatory and is referred to below as the 'Source-File' argument

There are ten (10) additional (optional) arguments that can be included in the Command String. These arguments must be placed in front of the Source-File argument, but they can be in any order. These arguments are identified by a leading dash (-) and letter. The letter is case insensitive. You may insert a space after the letter.

Please read the Password section below for handling **password-protected PDF files**.

The optional arguments are:

### Destination File

Id Letter: -D

Example: -D c:\mydir\myfile.tif

If you do not want to save the output file in the same name and folder as the source

file, then you must specify the destination file. Always use the complete path of the file. In the example above, note the -D identification tag followed by the destination-file name.

If the destination-file name includes spaces, the file name must be encapsulated in

quotes. For example -D "c:\my dir\my file.tif"

### Bits-per-Pixel (Color depth)

Id Letter:	-B	
Options:	-B 1	Monochrome (black and white). Default.
	-B 8	Grayscale
	-B 24	Colour (24-bit)

Options B8 and B24 only work with Compressions 'none' and 'lzw'.

### Compression

Id Letter:	-C	
Options:	-C g4	TIFF Group 4. Default if Bits-per-Pixel is not specified.
	-C fax3	TIFF Group 3 Fax
	-C fax4	TIFF Group 4 Fax
	-C lzw	LZW. Default if Bits-per-Pixel is Grayscale or Color.
	-C none	No compression

The Bits-per-Pixel option supersedes the Compression option. If there is a conflict, the Bits-per-Pixel selection prevails. For example, if you specify Color output and TIFF Group 4 Compression, the output file will be saved in LZW compression because TIFF Group 4 compression only exists for monochrome TIFF files.

For other compressions and for output in other graphics formats, please contact [support@hsm.ch](mailto:support@hsm.ch).

### Resolution (Horizontal 'X')

Id Letter:	-X
Example:	-X 200

If not specified, the default resolution is 300. The Resolution can be any number between 1 and 1200.

### Resolution (Vertical 'Y')

Id Letter:	-Y
------------	----

Example: -Y 200

If not specified, the default resolution is 300. The Resolution can be any number between 1 and 1200.

#### Page Range (From 'F', Until 'U')

Id Letter: -F (From)

-U (Until)

Example: -F2 -U6

If not specified, all pages in the PDF file will be processed.

#### Password (P)

Id Letter: -P (Password)

Example: -P ("mypassword")

Instead of "mypassword" specify the password of the PDF file to be processed

#### Width and Length ('W' and 'L')

Id Letter: -W (Width)

-L (Length)

Example: -W 1728 -L 2000

Values must be in pixels. Both Width and Height specifications must be used in conjunction. If neither is specified, original dimensions will be applied.

#### Split ('S')

Id Letter: -S

Example: -S (USED WITHOUT VALUE)

If this option is used, the output file will be split into individual single-page TIFF files; one TIFF file for each page. File serialization is in the xxx\_1, xxx\_2 format. If not used (by default), the Split option is disabled and a multi-page TIFF file is created.

## Delete ('E')

Id Letter:     -E  
Example:     -E (USED WITHOUT VALUE)

This option should be used with caution. **When this option is used, the PDF file will be permanently deleted immediately after conversion.** Therefore, it is highly recommended to make a backup of the file before conversion. *HSM Informatik AG declines any responsibility if a file is deleted due to inattentive use of this function.*

## Examples:

C:\PDF2TIFF\MP2T.EXE C:\mydir\myfile.pdf

The myfile.pdf will be converted to a TIFF Group 4 file (monochrome), 300x300 resolution, and will be saved as C:\mydir\myfile.tif

C:\PDF2TIFF\MP2T.EXE "C:\my dir\myfile.pdf"

Same as first sample but, because the file name has a space, it must be encapsulated in quotes.

C:\PDF2TIFF\MP2T.EXE -X 200 -Y200 -B 8 C:\mydir\my file.pdf

The myfile.pdf will be converted to a TIFF file, grayscale with LZW compression, resolution 200x200, and will be saved as C:\mydir\myfile.tif. Note, if the compression is not specified, all color and grayscale images are saved in LZW compression.

C:\PDF2TIFF\MP2T.EXE -D C:\otherdir\newfile.tif -X 200 -Y200 -B 8 C:\mydir\myfile.pdf

same as preceding sample, but the file will be saved as C:\otherdir\ newfile.tif

C:\PDF2TIFF\MP2T.EXE -D "C:\otherdir\new file.tif" -X 200 -Y200 -B 8 "C:\mydir\my file.pdf"

Similar to preceding sample but, since both the source and the destination files have spaces in their path name, they must be encapsulated in quotes.

C:\PDF2TIFF\MP2T.EXE -D C:\newfile.tif -W 1728 -L2244 -Cfax3 -X204 -Y196

C:\mydir\myfile.pdf

The myfile.pdf will be converted to a TIFF Group 4 (Fax) file, resolution 204x196, and will be saved as C:\newfile.tif.

C:\PDF2TIFF\MP2T.EXE -D C:\newfile.tif -S C:\mydir\myfile.pdf

The myfile.pdf will be split into single-page TIFF files, one file per page.

## Fonts and Font Substitution

PDF2TIFF converts the most common fonts to the correct style and appearance. Some rare fonts may not be translated to the exact font's appearance and style. If a font cannot be translated, then PDF2TIFF substitutes and applies the closest font.

## Password-protected PDF Files

You will accept responsibility for opening password-protected PDF files.

### PDF Passwords Explained

There are two types of passwords for PDF files:

- a) Owner Passwords. The password can be unlocked only by the owner (creator) of the PDF file. Depending on the scope of the password, it disables the edit, print, and/or search functions. With an Owner Password, the PDF file can be opened and viewed but typically cannot be edited, printed or searched. There is no method for the user to unlock the password.
- b) User Passwords. The user must enter the password (using –P) in order to open the PDF file. Once the file is open, the user can view, print, edit and search the file (edit and search only if text based). If the PDF file is also protected by an Owner password, then the user cannot edit, print and/or search the PDF file, depending on the scope of the Owner password.

## FreeType Engine

The MP2T includes the Free Type Engine, which is copyright 1996-2002 The Free Type Project, and is used here under the terms of the Free Type Project License. The Base 14 Type 1 fonts are part of the font set contributed to the Ghostscript project by URW++ Design and Development Incorporated of Hamburg, Germany (<http://www.urwpp.de/>). They have been released under the GNU General Public License (GPL) – see the "COPYING" file in the lib/t1fonts directory. The PDF data structures, operators, and specifications are copyright 1985-2001 Adobe Systems.

## Technical Support

For technical support please contact [support@hsm.ch](mailto:support@hsm.ch)

## Other Software

Please visit [www.expert-tools.com/ENGLISH/](http://www.expert-tools.com/ENGLISH/) for other useful software, such as:

- Informatik Image Driver is a high-performance driver that converts any printable Windows document to TIFF, PDF (and other formats).
- TIFF2PDF utilities convert TIFF files to PDF.
- Textlog Driver extracts text from text-based Windows documents.
- Other conversion utilities for PNG, PDF, TIFF and other graphics formats.

## Licensing

For licensing fees please visit: [www.expert-tools.com/ENGLISH/prices.html](http://www.expert-tools.com/ENGLISH/prices.html)

Please note that the demo version outputs TIFF files crippled with a diagonal line drawn across the image. The licensed version does not draw such a line.

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