



Amyuni PDF Converter

Version 2.1

User's Manual

Updated March 19, 2003

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Acknowledgments

Special thanks to:

Jean-loup Gailly (jloup@gzip.org) and Mark Adler (madler@alumni.caltech.edu) for their work on the deflate compression.

This software is also based in part on the work of the Independent JPEG Group and on parts of the FreeType library.

What's new in version 2

- Ü Generated PDF documents can now be *secured* to prevent them from being viewed, modified or even printed (**Professional versions of the PDF Converter only**).
- Ü PDF documents can be optimised for downloading through the web, also known as PDF Linearization (**Professional versions of the PDF Converter only**).
- Ü PDF documents can be emailed directly using any MAPI or SMTP-compliant mailing systems as opposed to being saved on disk for later emailing.
- Ü *Multi-national character sets* are supported. These include eastern-european, middle-eastern and far-eastern languages.
- Ü *PDF documents can be watermarked* using either a simple text string or another PDF file that can be used as background for generated PDF files. Watermarking can also be completely defined from the user interface.
- Ü *JPEG compression level* can be adjusted to produce smaller files with reduced quality pictures or larger files with high-quality pictures.
- Ü *Hyperlinks* can be inserted in the PDF file while it is being created.

What's new in version 2.1

- Files can be generated using *CCITT Fax compression* capabilities for black & white images
- *Grayscale JPEG* images can now also be compressed
- The Converter *connects directly to our PDF Creator* to allow previewing PDFs automatically or to let you immediately begin editing or modifying the PDF file
- The interface language *can be modified dynamically* to French, English or German
- Developers are able to configure the Converter to allow them to *redirect the data stream* to process the data or to define a destination other than saving to file or sending via email
- Generated PDF files can be *printed to a physical printer* using CDINTF (**Professional versions of the PDF Converter only**)
- The Converter now performs *128-bit encryption* compatible with Adobe Acrobat 5 ® format (**Professional versions of the PDF Converter only**)

Installation

Before installing and/or using this product, please make sure you carefully read the copyright notice and agree on all its terms.

The install procedure described here applies to the standard version of the PDF Converter. For installing and using the developer version, please refer to the developer's manual that comes with this product.

Automatic Installation Procedure

An automatic installation procedure has been created to easily install the PDF printer on your machine.

If you have received the product by e-mail, copy the file that you received in an empty directory, unzip the file and launch "install.exe".

If you have received the product by diskette or on CD-ROM, you can launch "install.exe" directly from the diskette or CD-ROM.

The installation procedure automatically detects your operating system; copies needed files to your system directory and installs the PDF printer in your system.

"Install.exe" can be launched with the following switches:

/s or **-s** : Silent mode. No dialog box is displayed in this case. This is useful for automating the install procedure.

/p or **-p** : No Spooler. The default installation stops and restarts the spooler. This may not be allowed under some situations. If you are getting "Spooler Error" messages when installing the PDF Converter, then you should use this option.

/l or **-l** : No log file. This option prevents install from creating an install.log log file.

/u or **-u** : Uninstall. This option removes the PDF printer and all associated files and registry entries from the system.

A specific printer name can also be specified by executing Install "My PDF Printer". In this case the PDF printer will appear in the printers control panel as "My PDF Printer".

A log file named "install.log" is generated in the source directory. If the install procedure is launched from a read-only media such as CD-ROM, the log file will be generated in your system's temporary directory. This file is required by the support staff to analyse problems that may occur during installation.

Changes from previous version

The installation tool for versions 1 and 1.5 copied a file named PDFINTF.DLL to the system directory. Version 2 now copies the file CDINTF.DLL and registers it in the system to be used as an ActiveX control from other applications.

Starting with version 2.02, the PDF printer is now attached to the LPT1:. The PDF: port is not used anymore.

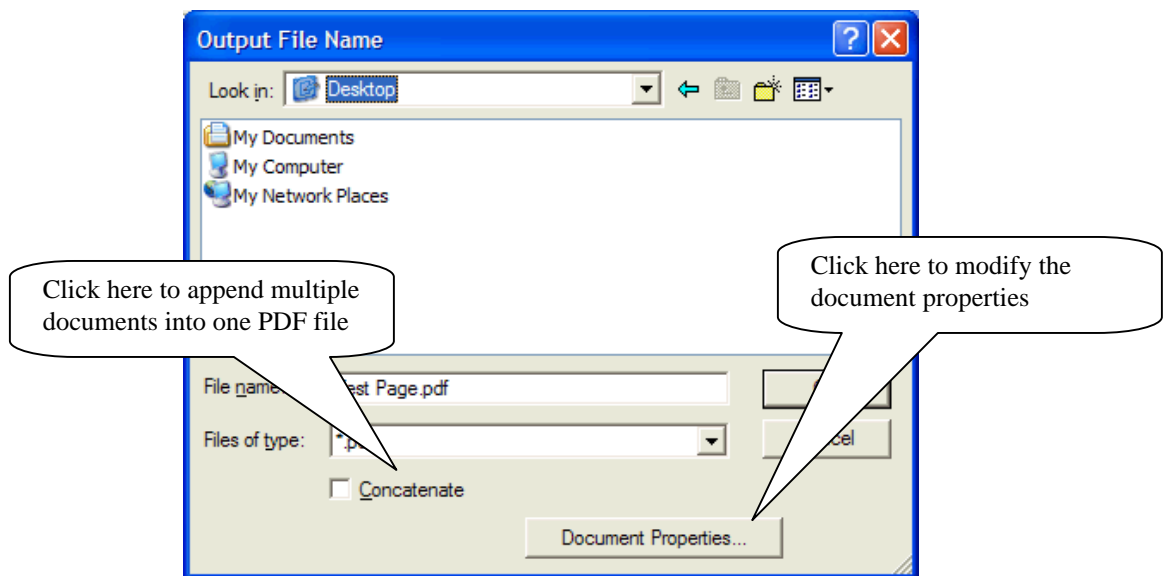
Usage

The PDF Converter works like any standard Windows® printer driver.

The main difference is that instead of directly printing to a printer, it generates a PDF 1.3 or 1.4 compatible file.

The PDF files generated by the PDF Converter can be viewed or printed to a physical printer by the Amyuni PDF Creator, the free Adobe® Acrobat® viewer versions 4 and higher, or by any other application capable of viewing standard PDF files.

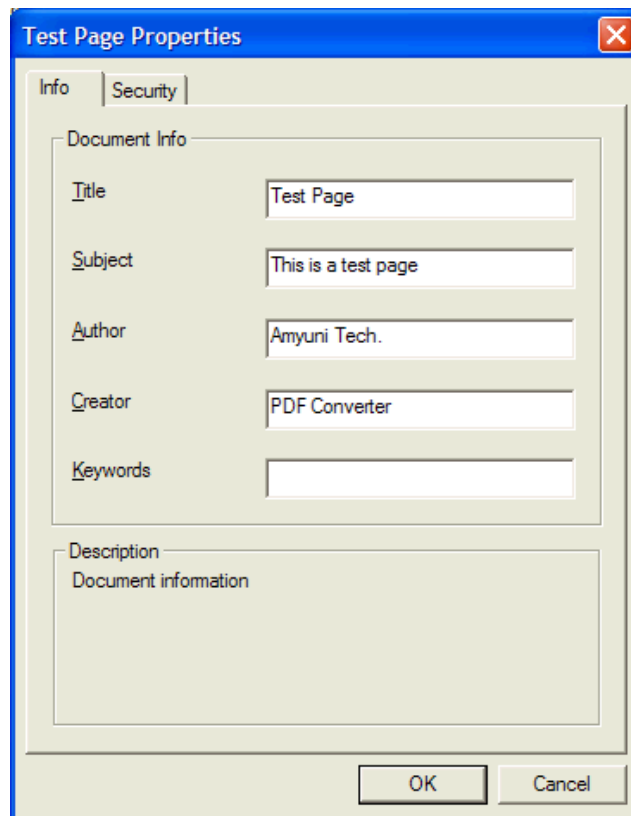
When you use the “Print” menu of your application, you are prompted for the name of an output file:



Just enter any valid file name with .pdf extension. Other extensions can be used but the generated file will not be automatically recognized by the system as a PDF file.

By default, the file is overwritten if it already exists. To append the document to an existing file instead of overwriting it, you can check the 'Concatenate' button.

Various options are available to automate the naming of the output file with or without user interaction. These options are described later in the manual on page 19 under the **'Property page 4: Destination'** section.



The screenshot shows a Windows-style dialog box titled "Test Page Properties". It has two tabs: "Info" (selected) and "Security". Under the "Info" tab, there are two main sections. The first is "Document Info", which contains five text input fields: "Title" (with "Test Page"), "Subject" (with "This is a test page"), "Author" (with "Amyuni Tech."), "Creator" (with "PDF Converter"), and "Keywords" (empty). The second section is "Description", which contains a text area with the text "Document information". At the bottom right of the dialog are "OK" and "Cancel" buttons.

Document info

Users can enter detailed information pertaining to the PDF document being generated such as Title, Subject, Author, Creator and Keywords.

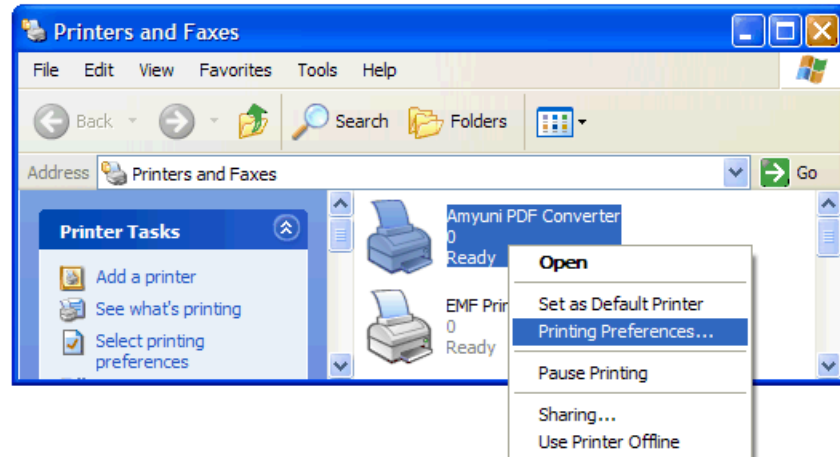
Document security

The general security and encryption details for the document are displayed in this section of the Properties box.

Configuration

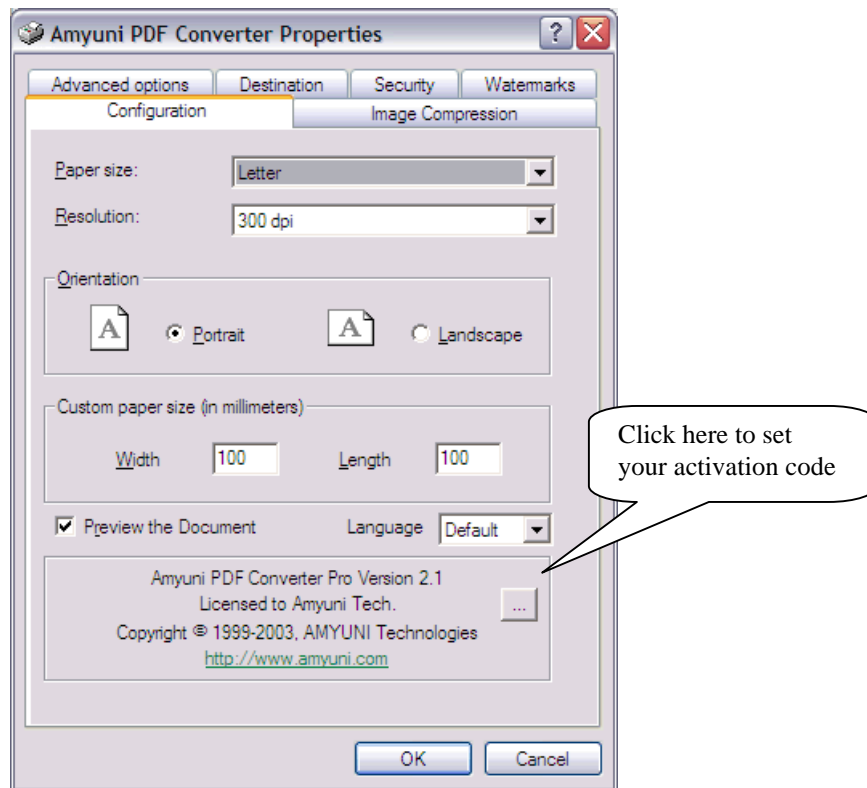
Information presented here only applies to the end-user version of the PDF Converter. The developer version does not have any user interface; all printer configuration should be done programmatically as explained in the samples and technical notes. The information presented here will however help the programmer have a better understanding of the various printer options made available by the PDF Converter.

The PDF printer properties are configurable using your system control panel or your application “Print” dialog box. The printer properties are available under “Document Defaults” under Windows NT and “Printing Preferences” under Windows 2000/XP.



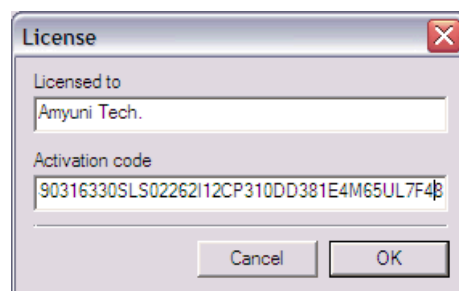
The printer properties are divided into six property pages as follows.

Property Page 1: Configuration



Activation Code

The first thing you must do after installing the product is to enter the license information that was provided when downloading or purchasing the product. Click on the button indicated above to enter the supplied license and activation code.



Paper size

This is the default paper size for new documents. All standard paper sizes supported by Windows are also supported by the PDF Converter. This parameter is usually set by the client application. The value entered here is only the default for new documents. The default value for the Paper size is either A4 or Letter depending on the countries where the product is used.

Resolution

75, 150, 300, 600 or 1200 Dots per inch (DPI). This concerns mainly image resolution. Text precision can also be improved by increasing this value. The default value is 300 DPI.

Orientation

Portrait or Landscape. This is also a default value used for new documents only. Applications usually set this parameter internally. The default value is Portrait.

Custom paper size

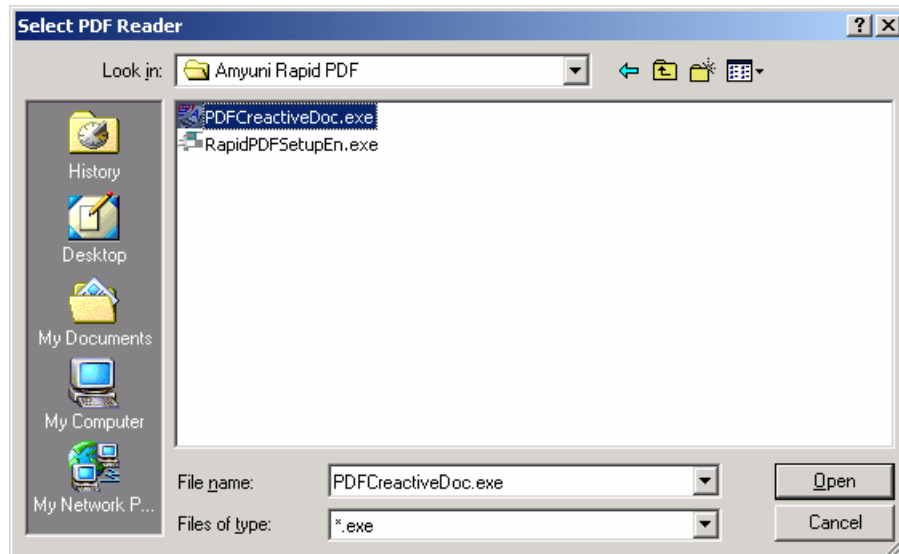
Users can define here a custom paper size that they often use for their documents. Custom paper size applies when the 'Custom' option is selected in the Paper size selection box. The default values for custom paper sizes are 100 mm width and length.

Language

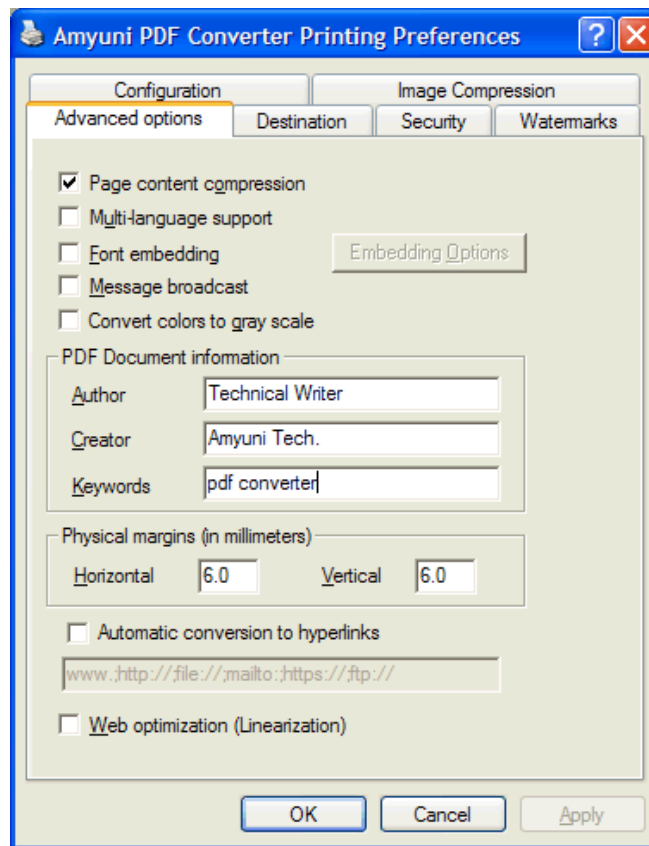
A default language is supplied by the product activation code. The user can also specify the language used in the user interface from one of three options: English, French and German. Other languages are being added and will be available in the future.

Preview the PDF File

This option enables you to view the PDF after it has been generated without having to launch the PDF reader and open the created PDF file. When you click on this checkbox, you will be prompted to choose the application needed to view the PDF file, this can be either Adobe Acrobat Reader®, Amyuni PDF Creator or any other PDF viewer.



Property Page 2: Advanced Options



Page Content Compression

On or Off. This option enables page compression using the zlib/deflate compression algorithm. Removing this option can be useful for debugging or for applications that analyse the generated PDF file. The default value is On.

Multi-language support

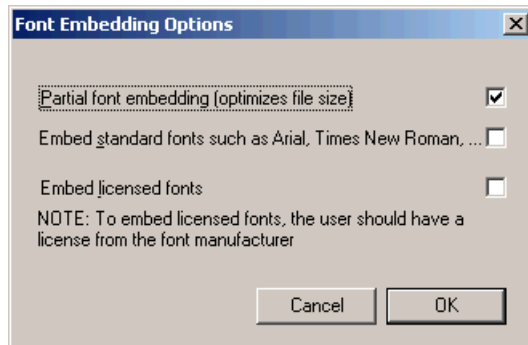
When this option is checked, the PDF Converter will also convert characters that are not in the western-european and US character sets (e.g.: eastern-european and far-eastern characters). The conversion in this case is however less efficient and files tend to be larger in size. Font embedding is recommended in this case to have some PDF viewers correctly display all the fonts.

Font embedding

On or Off. Setting this option to On will enable the driver to include all True Type® fonts used by the document in the output PDF file. This results in larger files but ensures consistent look of the document on any platform. The default value is Off.

Embedding Options

This button opens the following dialog-box to enable the user to more accurately define which fonts to embed:



- Partial font embedding is active by default and instructs the PDF Converter to embed only portions of the font file that are really used by the source-document.
- Embed standard fonts is disabled by default. Enabling it instructs the PDF Converter to embed Arial and Times New Roman fonts. These fonts are not embedded by default as they are provided with Acrobat® reader.
- Embed licensed fonts can be checked to embed fonts that require a license from their manufacturer to be embedded. This option is disabled by default and should be enabled only if the user is sure to have the license required to embed the fonts installed on his/her system.

Message Broadcasting

On or Off. When activated, messages are broadcasted for all running applications each time a document is printed to PDF format. The following events result in messages being broadcasted: Start of document, End of document, Start of page, End of page. Refer to appendix A for the format of these messages and how to intercept them. The default value is Off.

Convert colours to gray-scale

Using grey scale can decrease document size for archival or transmission purposes. The default value is Colour.

Vertical and horizontal margins

Most printers have a minimum physical margin below which they cannot generate any output. Applications use this value to prevent users from drawing outside the printable area. The default value is 6 millimetres.

Web optimization (Linearization)

This feature is available in the professional versions of the PDF Converter only

To view a PDF file located on a web server or another PC on the network, the user needs to download the whole file to the local PC before being able to open this file. When this option is activated, the PDF reader can download and view the document page by page without the need for downloading the full document. This results in the PDF document appearing on the client's screen in a nearly simultaneous manner.

Property Page 3: Image Compression

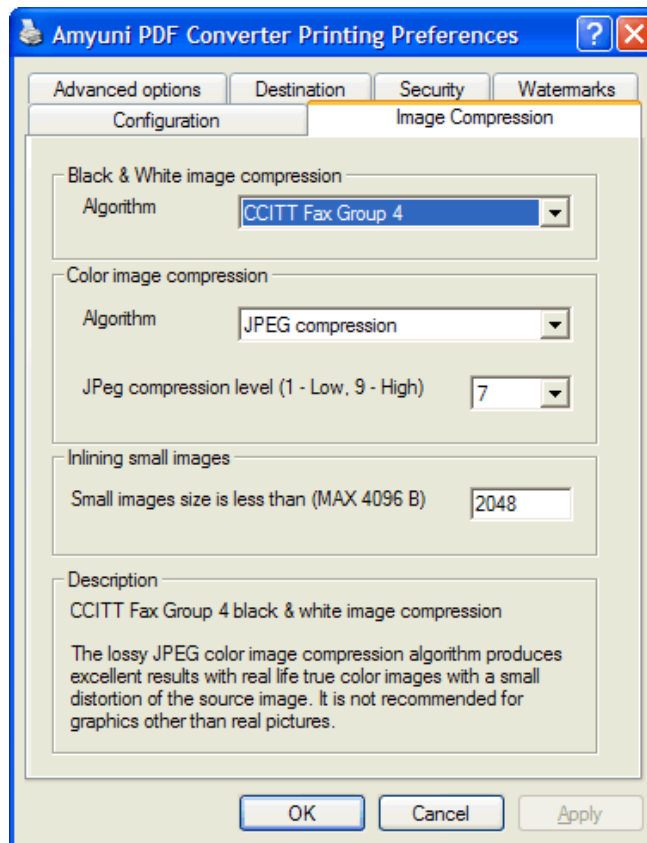


Image compression algorithm

The PDF Converter implements four image compression algorithms.

Default compression

The default image compression algorithm makes use of colour palettes to reduce the overall size of all images. This algorithm works well as long as the number of colours does not exceed 256.

256-colour compression

The 256-colour compression algorithm computes the mostly used 256 colours in an image and replaces all other colour pixels by their closest match. This lossless compression algorithm works usually very well with most applications but is relatively slow on large images with a greater number of colours.

JPEG compression

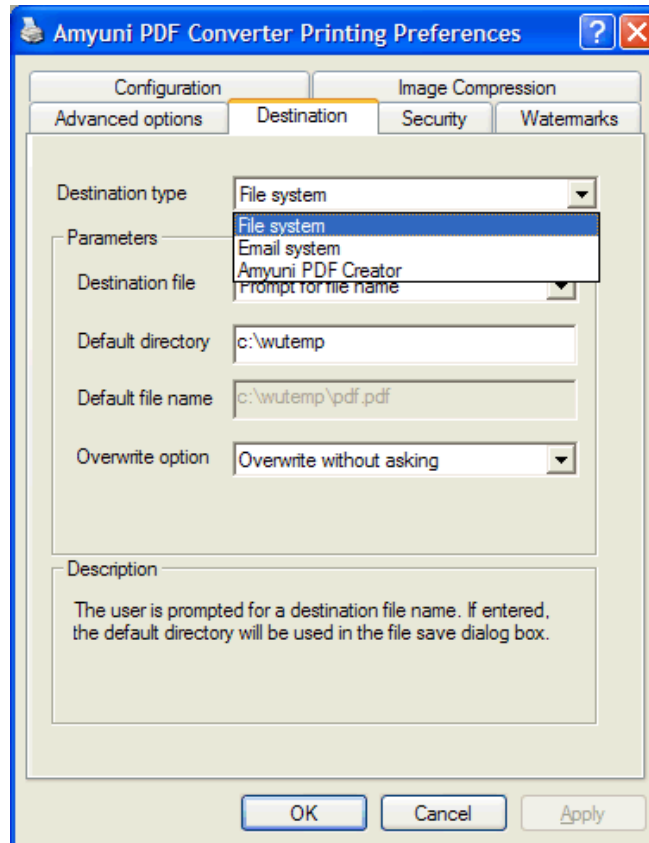
The lossy JPEG compression algorithm produces excellent results with real life true colour images with a small distortion of the source image. It is not recommended for graphics other than real pictures.

When JPEG compression is selected, the JPEG compression level selection box appears. JPEG compression levels vary from 1 to 9. Level 1 produces poorer quality images with a very large compression ratio. Level 9 produces very good quality images with medium compression ratio. The default value is 7, which will produce compression levels and image quality suitable for most situations.

Automatic compression (Windows NT/2000/XP only)

This algorithm analyses each image separately and tries to apply the compression algorithm that is best suited to that image.

Property Page 4: Destination



Destination type

The PDF file can be either saved to the local or network drive, or directly sent by email using the email software installed on the user's system

File system

The PDF file is saved to the local drive or on the network.

The destination file name can be set up in three different ways:

Prompt for file name

The user is prompted for an output file name each time a document is printed to the PDF printer. If a default directory is entered, the File Save dialog box is initialised with this value. The Default file name is not used.

Document title.pdf

The output file name is set automatically by the PDF Converter by concatenating the Default directory, the document title and .pdf extension. The document title depends on every client application. No additional user prompt is needed. The Default file name is not used.

Predefined by user

The output file name is predefined by the user in the "Default file name" field. The same file name is used for all generated PDF documents. No additional user prompt is needed. The Default directory is not used.

Overwrite option

This selection box defines the behaviour of the PDF printer when the output file already exists. The user can choose among one of the following options:

Overwrite without asking

The existing file is immediately overwritten by the new file without any confirmation. This is the default value that is compatible with previous versions of the product.

Confirm before overwriting

If the file already exists, the user is asked to confirm if he or she wishes to overwrite the file or cancel the operation.

Append to existing file

If the file already exists, the new document is automatically appended to it.

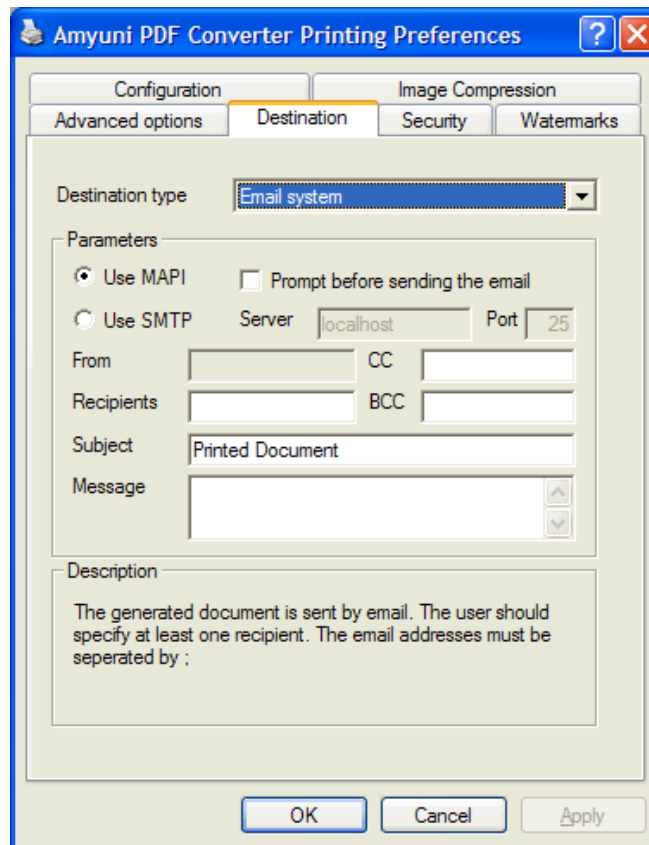
Add date and time to file name

The date and time are appended to the name of the file that the user gives through the user interface, or through the DefaultFileName function call. This is true whether the file existed or not. Ex: if the user or programmer enters test.pdf as file name, the resulting file will be named testddmmyyhhmmss.pdf, where ddmmyyhhmmss is the current date and time.

Add ID number to file name

An incremental ID number is appended to the name of the file that the user gives through the user interface, or through the DefaultFileName function call. This is true whether the file existed or not. Ex: if the user or programmer enters test.pdf as file name, the resulting file will be named testN.pdf, where N is an automatically generated ID number.

Email system



Use MAPI v/s Use SMTP:

This option allows the user to send the file using either a MAPI compliant email application such as Outlook®, or directly using the SMTP protocol.

Prompt before sending the email

When this option is checked, the user is prompted with the various email parameters before the email is sent.

Recipients

The user can enter the list of recipients here. If more than one email address is entered, the addresses should be separated by a semi-colon (;).

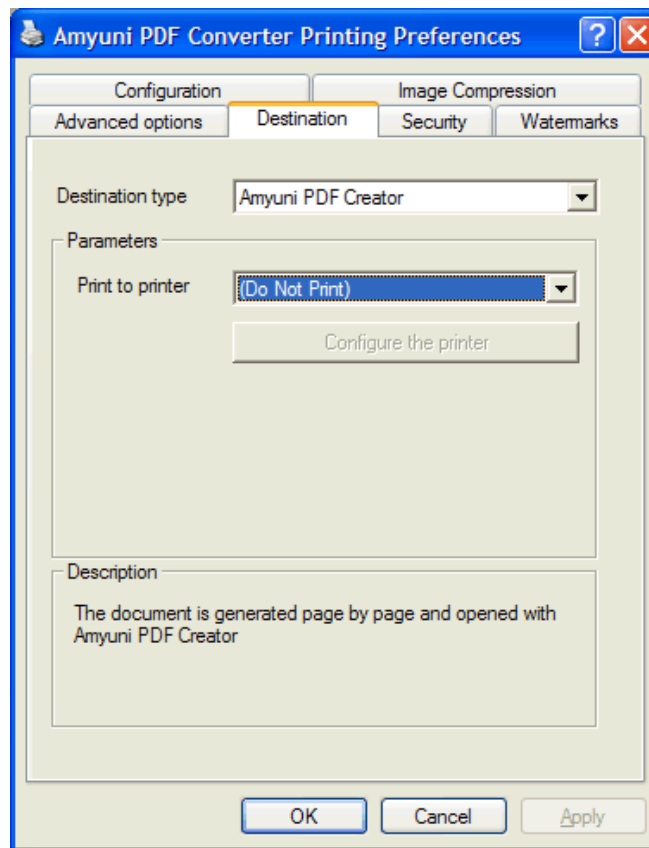
BCC, CC

The user can enter the list of 'Carbon Copy' and 'Blind Carbon Copy' recipients here. If more than one email address is entered, the addresses should be separated by a semi-colon (;).

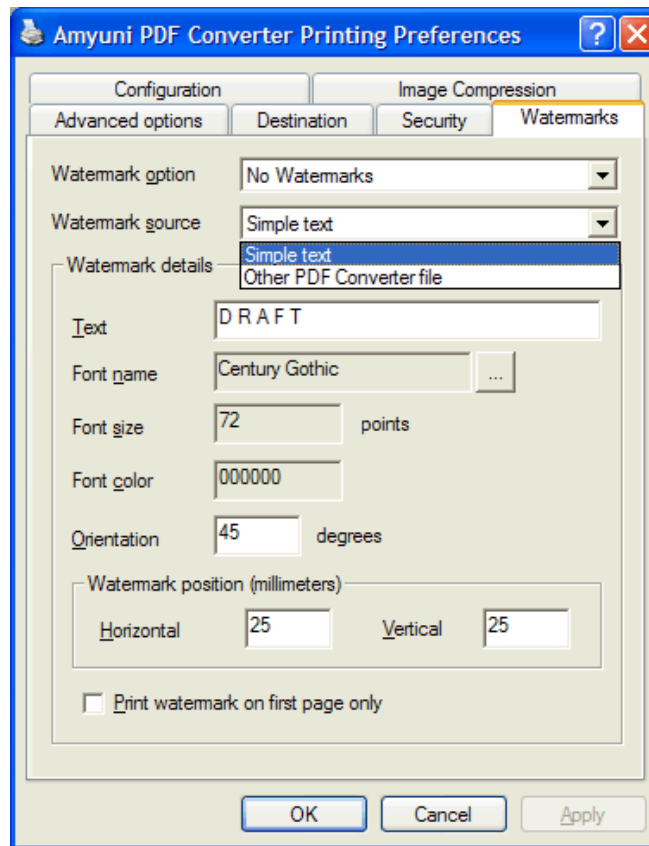
Subject, Message

The subject and message of the email that is to be sent with the PDF file attached.

Amyuni PDF Creator



Property Page 5: Watermarks



Watermark option

This can be set to 'No Watermarks', 'Watermarks below page content' or 'Watermarks above page content'.

Watermark source

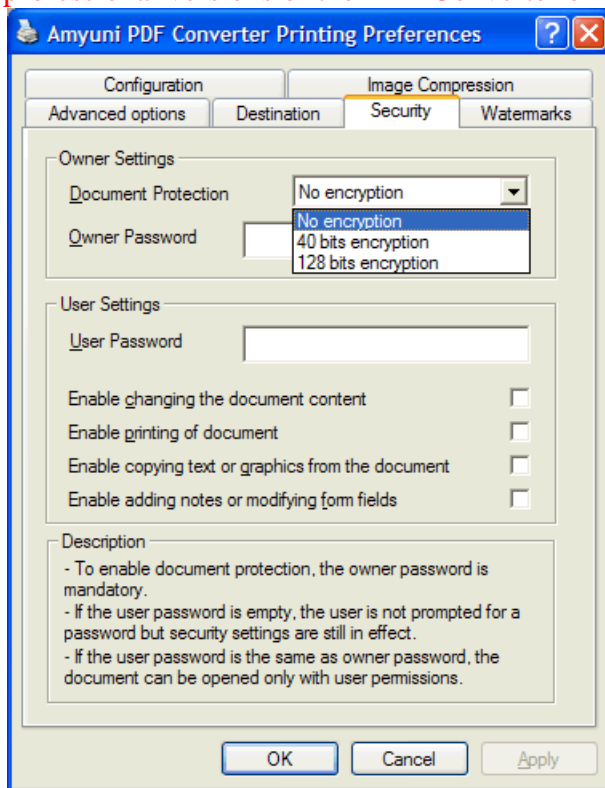
Watermarks can be added from two different sources:

- Simple text as entered in this dialog box
- Another PDF file that can be merged into the file that is currently being printed. This is useful to add a company or personal letterhead to all printed documents.

The other fields in this dialog-box define the various text properties used for drawing the watermark, or the file name for the other PDF file if that option was chosen.

Property Page 6: Security

This feature is available in the professional versions of the PDF Converter only



Enable document protection

When checked, this option enables documents to be encrypted and protected against illegal use or modification.

Owner and user passwords

Two passwords are associated to an encrypted PDF document. The owner password is for the author of the document, and the user password for the recipient or user of the document.

The owner password is mandatory and allows the author having this password to do any operation he/she wishes on this document, including modifying its security settings.

The user password is optional and can be one of the following:

- A blank password. In this case, the user is not prompted for a password when opening a document, but is restricted to the operations allowed by the author.
- The same password as the owner. In this case the user is prompted for a password and the author of the document will not be able to open this document as an owner to change its security settings.
- A password different from the owner. In this case, the user will not be able to open the document unless he/she enters a valid password. When a valid password is entered, the document can be viewed but its usage restricted to the operations allowed by the author.

User settings

- Enable changing the document content. When this option is checked, the user is allowed to change the contents of the PDF document.
- Enable printing of document. The user cannot print the PDF document to any printer unless this option is checked.
- Enable copying text and graphics from the document. When this option is checked, the user can copy parts of the text of graphics from the PDF document.
- Enable adding notes or modifying form fields. The main body of the document cannot be changed but the user can add annotation or enter data in the form fields if there are any.

NOTE: These options are managed by the tool used to view the document and not by the PDF Converter. Once a valid password is entered, it is up to the viewer or editor application to make sure that these security settings are respected.

Technical Support

If you have any questions or problems with our products, the following resources are available to you through our web site:

Frequently Asked Questions:

<http://www.amyuni.com/en/support/faq.html>

Technical Notes:

<http://www.amyuni.com/en/support/technotes.html>

User forum:

<http://www.amyuni.ca/forum/index.php>

Posting questions to our technical support staff:

<http://www.amyuni.com/en/support/index.html>