



Amyuni PDF Converter

Version 2.50e

Version 2.50e Professional

For Windows 95, 98, Me, NT4, 2000, XP/2003 32-bits, **XP/2003 64-bits**

User's Manual

Updated September 26, 2005

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Acknowledgments

This software uses the deflate algorithm developed by Jean-loup Gailly (jloup@gzip.org) and Mark Adler (madler@alumni.caltech.edu). This software is also based in part on the work of the Independent JPEG Group and on parts of the FreeType library.

Main Product Features

- Ü Conversion of documents from any Windows application to standard PDF format by printing the document to the virtual PDF printer.
- Ü Resulting PDF document can be previewed either while being generated or after the conversion is completed.
- Ü Documents containing images can be compressed using a variety of image compression techniques such as JPEG, CCITT Fax, greyscale, down sampling, removal of duplicate images, ...
- Ü *Multi-national character sets* are supported. These include eastern-european, middle-eastern and far-eastern languages.
- Ü *TrueType®* and *Type1 (Postscript)* fonts can be fully or partially embedded in the PDF document to ensure perfect portability.
- 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 be defined from the user interface or configured programmatically.
- 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 PDF documents can be archived directly into ODMA enabled document management systems (DMS).
- Ü *Hyperlinks* and *Bookmarks* can be inserted in the PDF file while it is being created.
- Ü 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
- Ü Conversion process can be completely automated from within the application.

The professional version of the PDF Converter provides the following additional features:

- Ü PDF documents can be *secured* using either 40-bit or 128-bit encryption algorithms to prevent them from being viewed, modified or even printed.
- Ü PDF documents can be *digitally signed* using any valid certificate installed on the end-user's system.
- Ü PDF documents can be optimized for downloading through the web, also known as PDF Linearization.
- Ü Generated PDF files can be *printed to a physical printer* after they have been generated.

What's new in version 2.5

- Ü **Support for 64-bit versions of Windows XP and 2003.**
- Ü Partial or full embedding of Type1 or Postscript fonts in addition to TrueType fonts.
- Ü Generation of CMYK coloured PDF files even when the source application does not support CMYK.
- Ü Improved support for Office XP/2003 for documents containing semi-transparent backgrounds.
- Ü Direct JPEG and PNG output from Office applications improves conversion speed.
- Ü PDF documents can be archived directly into the user's document management system (DMS).
- Ü Improved support for third party PDF files for printing, merging, appending...
- Ü Improved automatic generation of hyperlinks and bookmarks.

The professional version of the PDF Converter 2.5 provides the following additional feature:

- Ü PDF documents can be *digitally signed* using any valid certificate installed on the end-user's system.

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 end-user version of the PDF Converter. For installing and using the developer version, please refer to the “Common Driver Interface.pdf” manual that comes with this product.

Automatic Installation Procedure

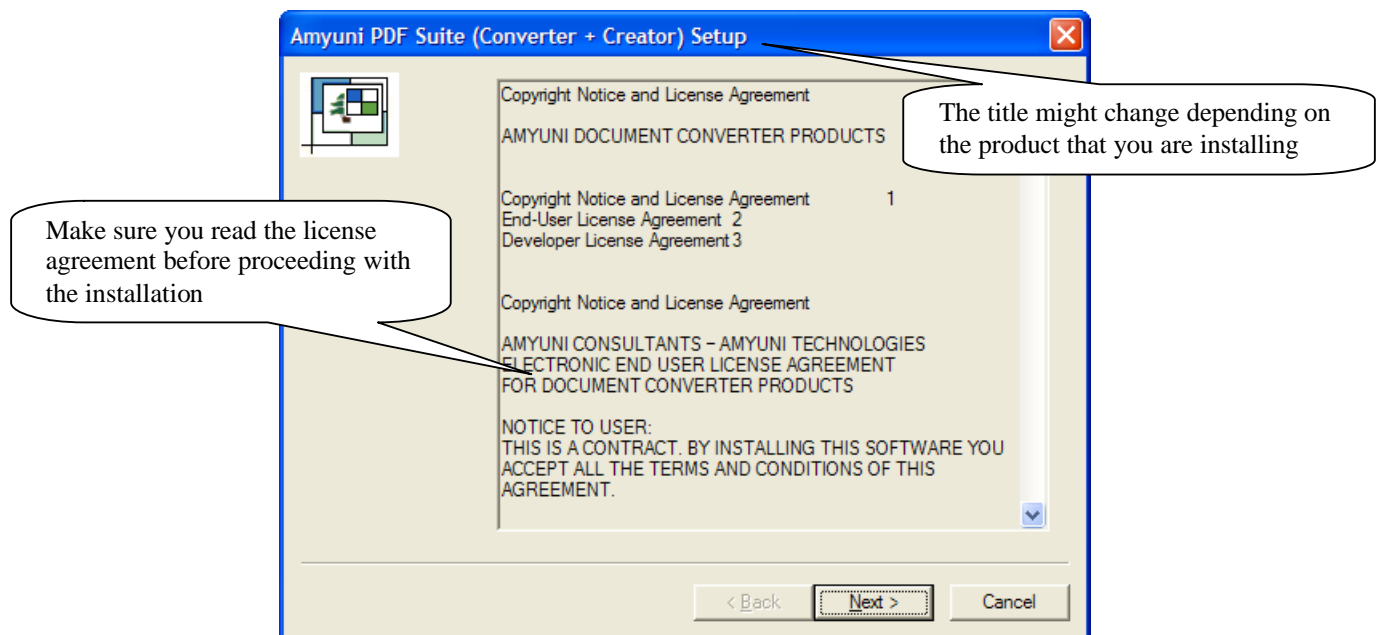
An automatic installation procedure has been created to easily install the PDF printer on your system.

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

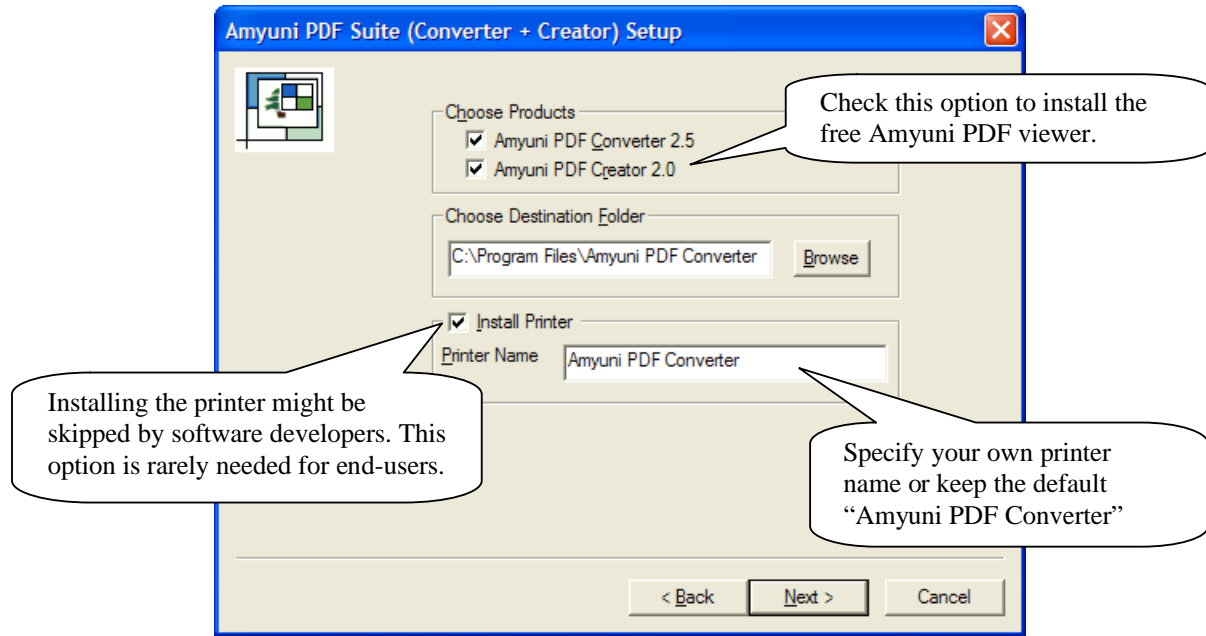
If you have received the product on CD-ROM, you can launch “pdfdrv.exe” directly from the CD-ROM drive.

If you have downloaded the product from the internet, you can either save the file “pdfdrv.exe” in any folder and run it from there, or run it directly from your web browser by choosing “Open” instead of “Save”.

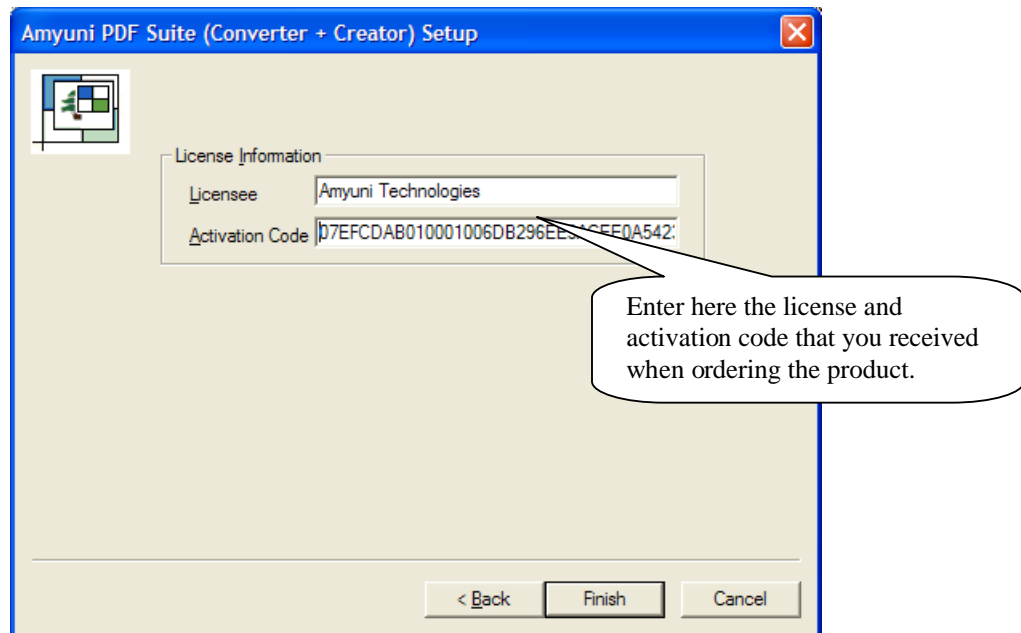
Installation Step 1



Installation Step 2



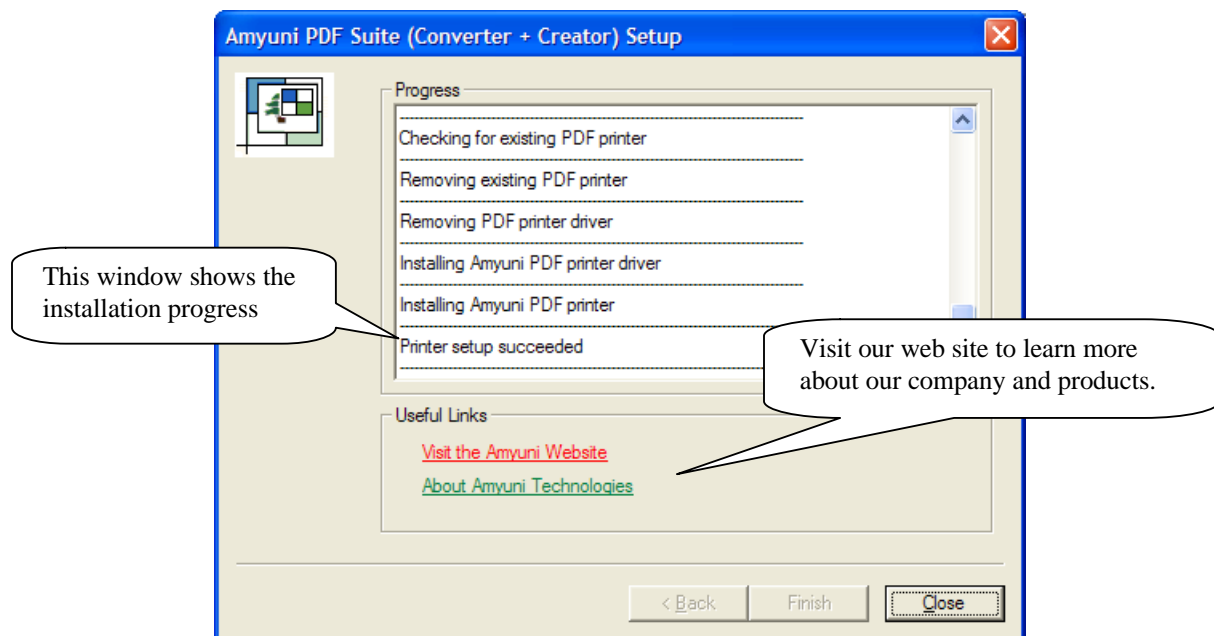
Installation Step 3



This step is skipped when installing the evaluation version.

It is recommended that you copy and paste the activation code that was sent to you as typing it without any errors can be a very long procedure.

Installation Step 4

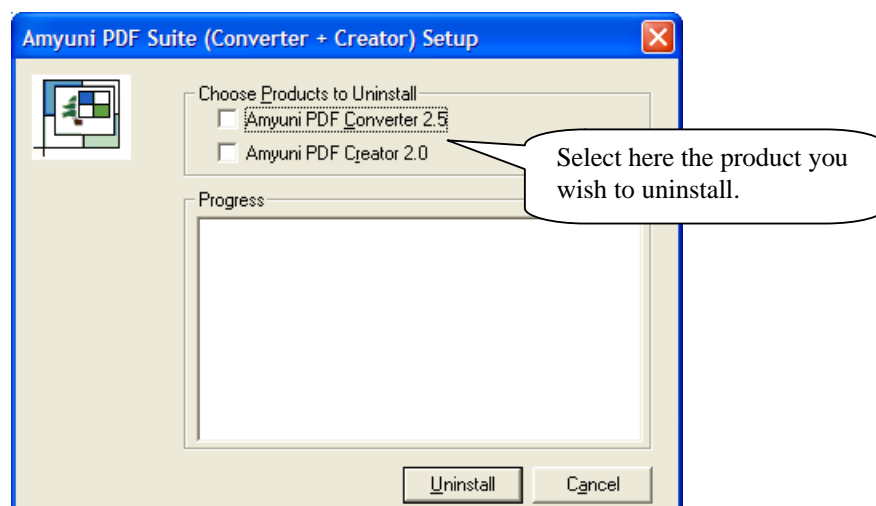


If the setup fails, a log file is created either in your system's temporary folder, or the folder where you had copied the pdfdrv.exe file. The log file is needed by our support team to diagnose any problem occurring during installation.

The last setup screen also invites you to visit our web site where you can download some free utilities that can be used with the Amyuni PDF Converter product.

Uninstalling the Amyuni PDF Converter

You can partially or completely uninstall the product from the "Control Panel", "Add/Remove Programs" option. The following screen will appear:

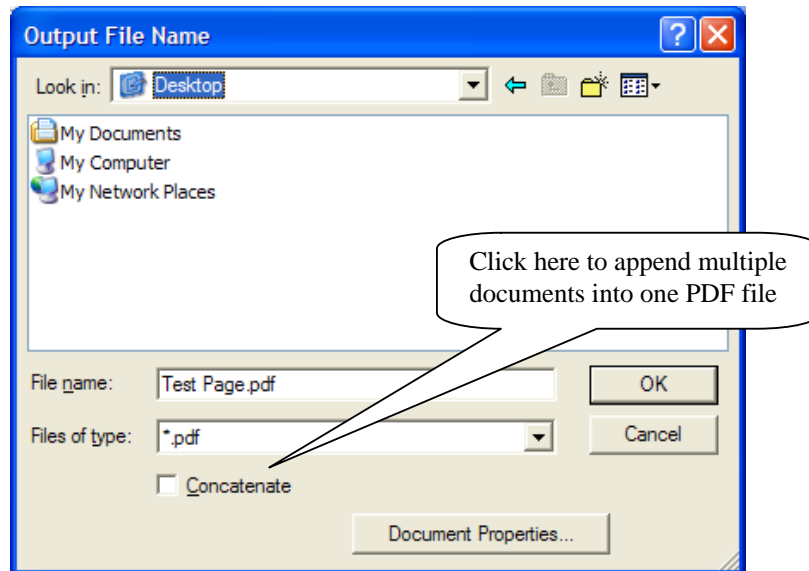


Usage

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 100% PDF 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.

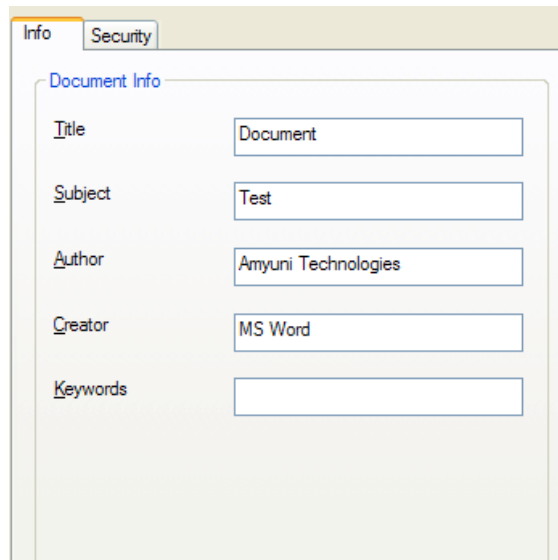
Various options are available to automate the naming of the output file with or without user interaction. These options are described later in the manual on page 19 under the ‘**Property Page 4: Destination**’ section.

Document Properties

The “Document Properties” button of the “Output File Name” window enables the user to enter various information related to the specific document that is being converted to PDF.

Info

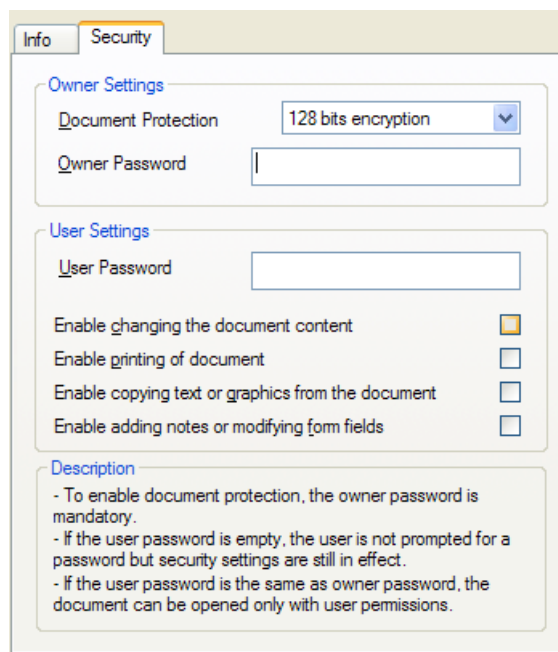
Users can enter detailed information pertaining to the PDF document being generated such as Title, Subject, Author, Creator and Keywords.



The screenshot shows the 'Info' tab of a dialog box with two sub-tabs: 'Info' and 'Security'. The 'Info' sub-tab is active, displaying a section titled 'Document Info'. This section contains five labeled text input fields: 'Title' (containing 'Document'), 'Subject' (containing 'Test'), 'Author' (containing 'Amyuni Technologies'), 'Creator' (containing 'MS Word'), and 'Keywords' (which is empty).

Security

The general security and encryption details for the document are displayed in this section of the Properties box. A detailed description for this window can be found on page 25: **“Property Page 6: Security”**.

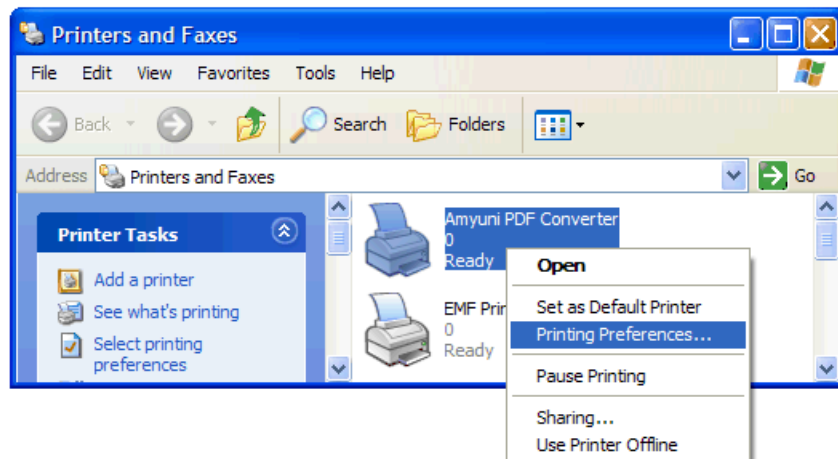


The screenshot shows the 'Security' tab of the same dialog box. It contains two main sections: 'Owner Settings' and 'User Settings'. The 'Owner Settings' section has a 'Document Protection' dropdown menu set to '128 bits encryption' and an empty 'Owner Password' text field. The 'User Settings' section has an empty 'User Password' text field and four checkboxes, all of which are unchecked: 'Enable changing the document content', 'Enable printing of document', 'Enable copying text or graphics from the document', and 'Enable adding notes or modifying form fields'. Below these settings is a 'Description' section with three bullet points explaining the security requirements and the effect of the user password.

Configuration

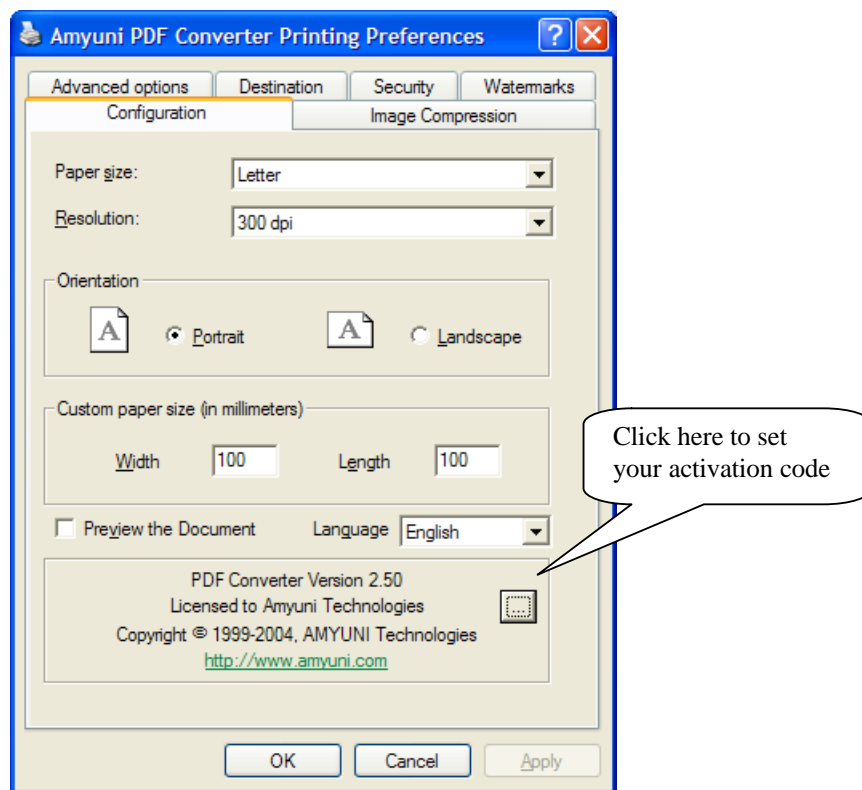
Information presented here only applies to the end-user version of the PDF Converter. The developer version does not have any user interface; all printer configuration should be done programmatically as explained in the developer documentation and technical notes. The information presented here will 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/2003.



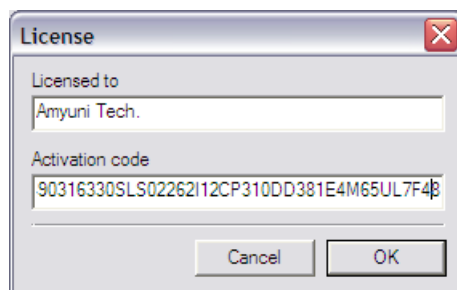
The printer properties are divided into seven property pages that are detailed in the coming sections.

Property Page 1: Configuration



Activation Code

If the printer is already installed on your system, you may need to enter the licensing information and activation code that was provided to you 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

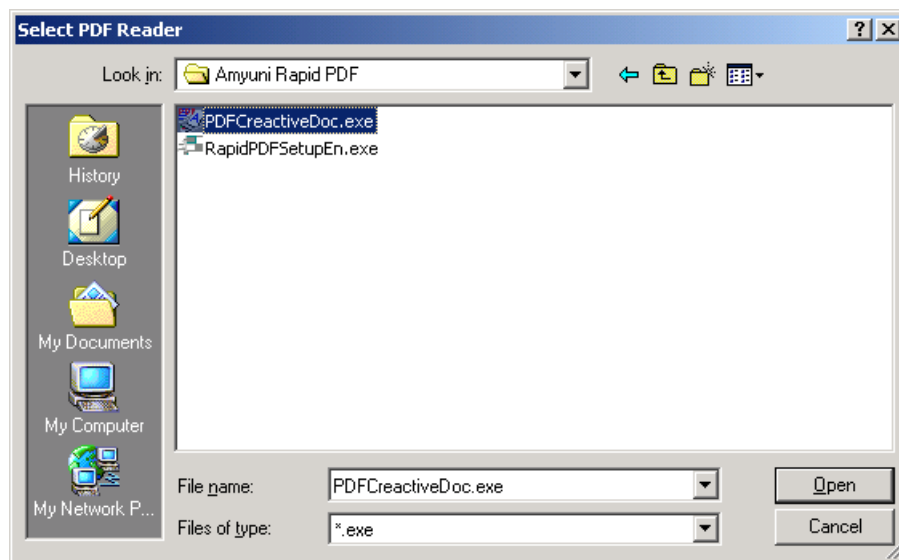
Users can define here a custom paper size that they often use for their documents. Custom paper size applies when the 'Custom' option is selected in the Paper size selection box. The default values for custom paper sizes are 100 mm width and length.

Language

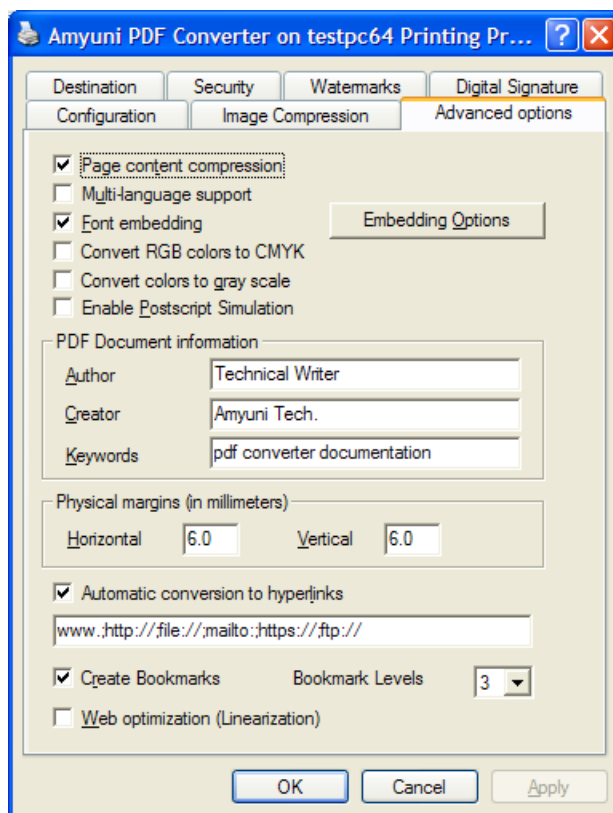
A default language is supplied by the product activation code. The user can also specify the language used in the user interface from one of three options: English, French and German. Other languages are being added and will be available in the future.

Preview the Document

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

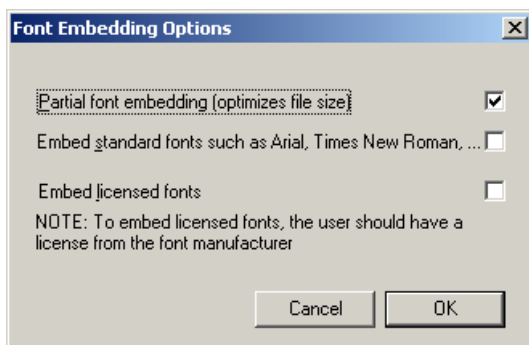
When this option is checked, the PDF Converter will also convert characters that are not in the western-european and US character sets (e.g.: eastern-european and far-eastern characters). The conversion in this case is however less efficient and files tend to be larger in size. Font embedding is recommended 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 TrueType® and Type1 (Postscript) 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.

Convert RGB colors to CMYK

On or Off. When activated, all colors in the PDF document are converted to CMYK colors. CMYK colors are usually for printing documents on color printers. To obtain more accurate CMYK conversion, a color profile can be attached to the PDF Converter printer. This is explained in the technical notes on our web site or by going through the Microsoft Windows documentation.

Convert colors to grayscale

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

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.

Automatic conversion to hyperlinks

When this option is checked, any text that has the format of a hyperlink will be converted to real hyperlink inside the PDF file. The PDF Converter will look for text that starts with any of the strings that are defined in the edit field. By default, the PDF Converter will look for all text starting with “www.”, “http://”, “file://”, “mailto:”, “https://”, or “ftp://”.

Create bookmarks

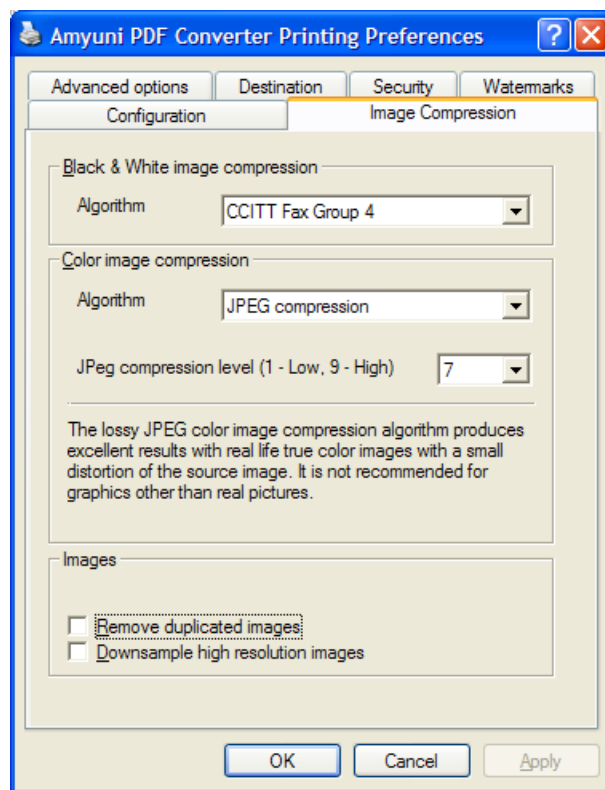
When this option is checked, the PDF Converter will automatically create PDF bookmarks for the document. The user can specify up to 5 bookmark levels of nested bookmarks. The bookmarks are created depending on the font sizes for all text objects found in the document.

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



The PDF Converter implements a number of image compression algorithms for both colour and black and white images.

CCITT Fax Group 4

This algorithm is recommended to reduce the size of black and white images. Image quality is not affected by this type of compression but file size can be greatly reduced.

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.

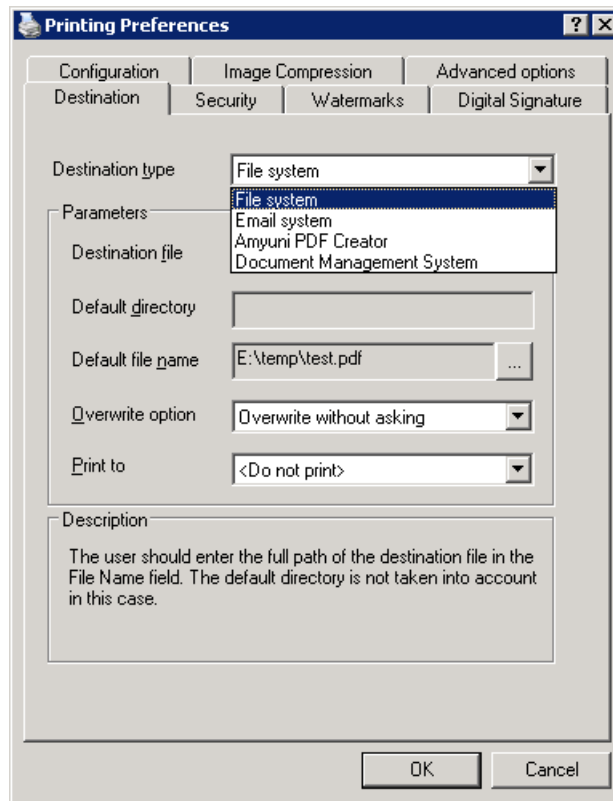
Remove duplicate images

If the same image that is repeated multiple times inside a document, and this option is checked, the image will exist only once in the PDF document, hence reducing the PDF file size. Setting this option will slow down the conversion speed depending on the number of images in the document.

Downsample high resolution images

Images used in a document can sometimes be at a much higher resolution than the printer resolution. Downsampling reduces the PDF file size by adjusting the image resolution to the printer's resolution.

Property Page 4: Destination



Destination type

The PDF file that is created during the conversion can be sent to 4 different destinations depending on the user's selection. The PDF file can be :

- 1 – Saved to the local or network drive
- 2 – Sent by email transparently or using the end-user's email software
- 3 – Sent directly to the Amyuni PDF Creator viewer
- 4 – Saved into the end-user's document management system (DMS)

Destination 1: 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

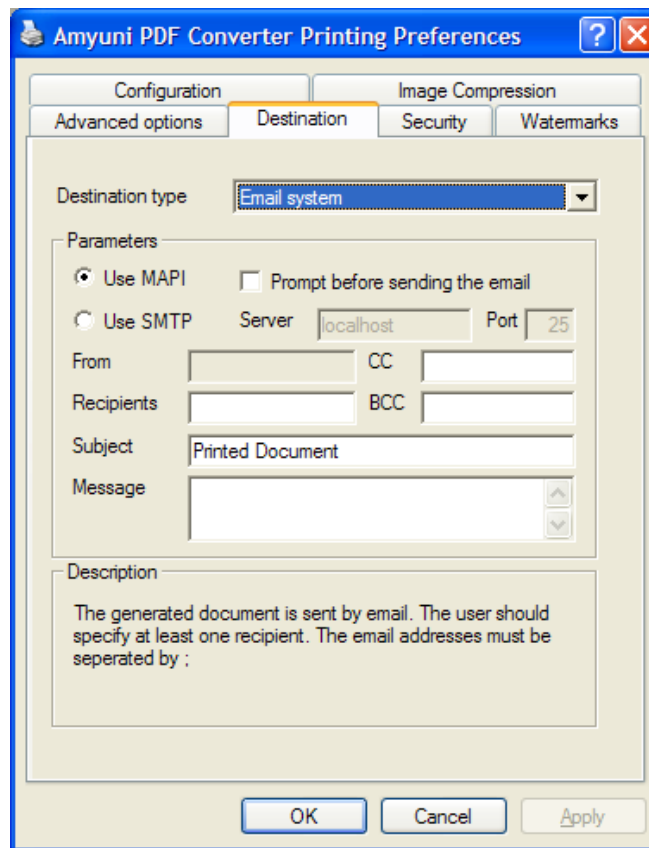
An incremental ID number is appended to the name of the file that the user gives through the user interface, or through the DefaultFileName function call. This is true whether the file existed or not. Ex: if the user or programmer enters test.pdf as file name, the resulting file will be named testN.pdf,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

Print to

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

If a printer is selected, or the <Default Printer> option selected, the PDF document will be printed to a regular printer after the conversion to PDF is finished.

Destination 2: 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 (;).

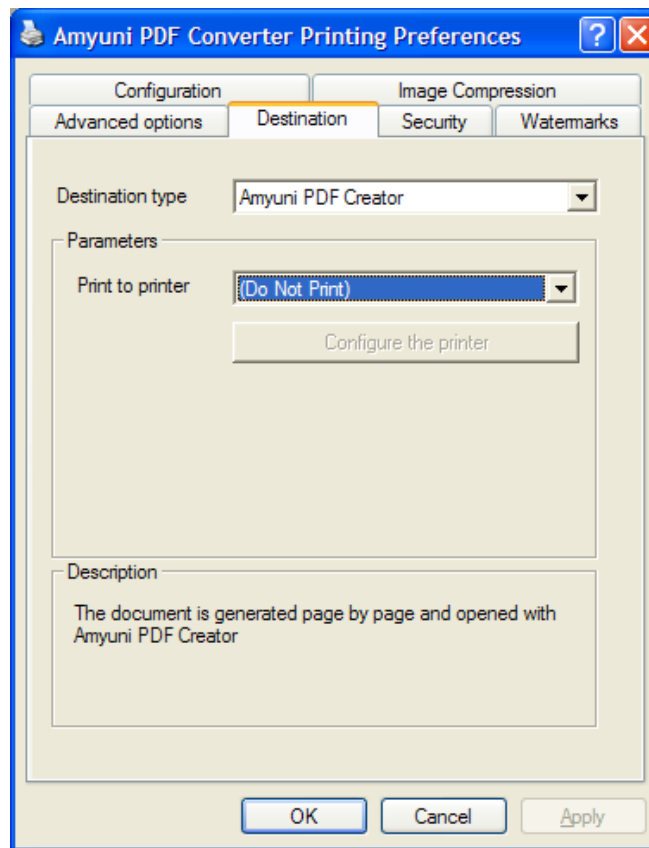
BCC, CC

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.

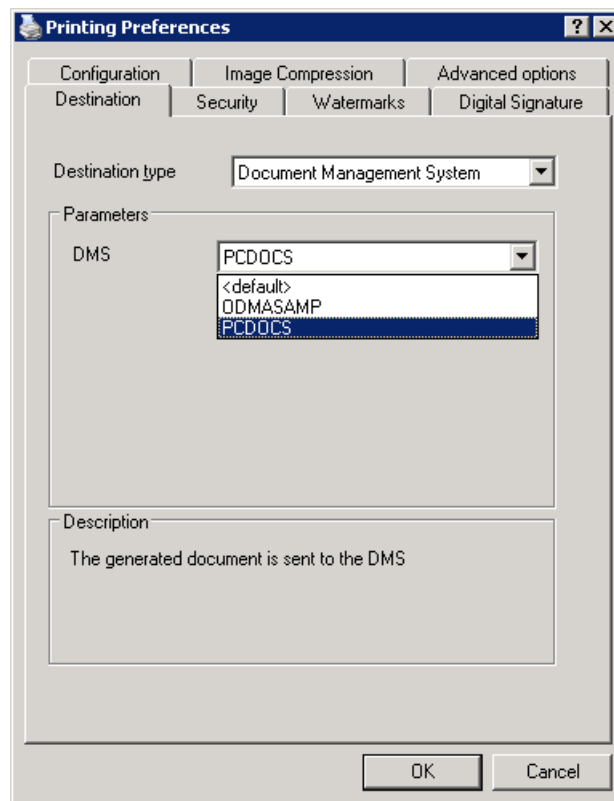
Destination 3: Amyuni PDF Creator



Setting the destination to the Amyuni PDF Creator will launch the Amyuni viewer as soon as the document starts printing. This is useful to start viewing or modifying the resulting PDF without saving it first to a file then opening it with the viewer.

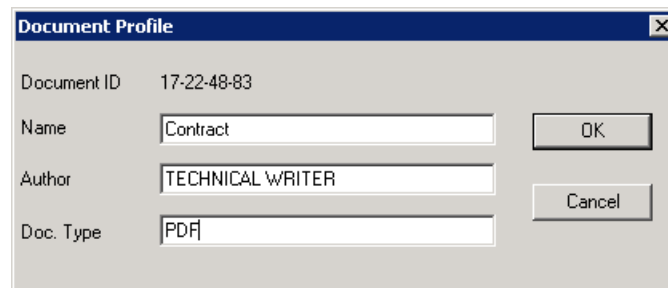
The “Print to printer” option will instruct the Amyuni PDF Creator to start immediately printing the PDF document to the selected printer. In this case the document is converted to PDF and printed simultaneously to a regular printer.

Destination 4: Document Management System

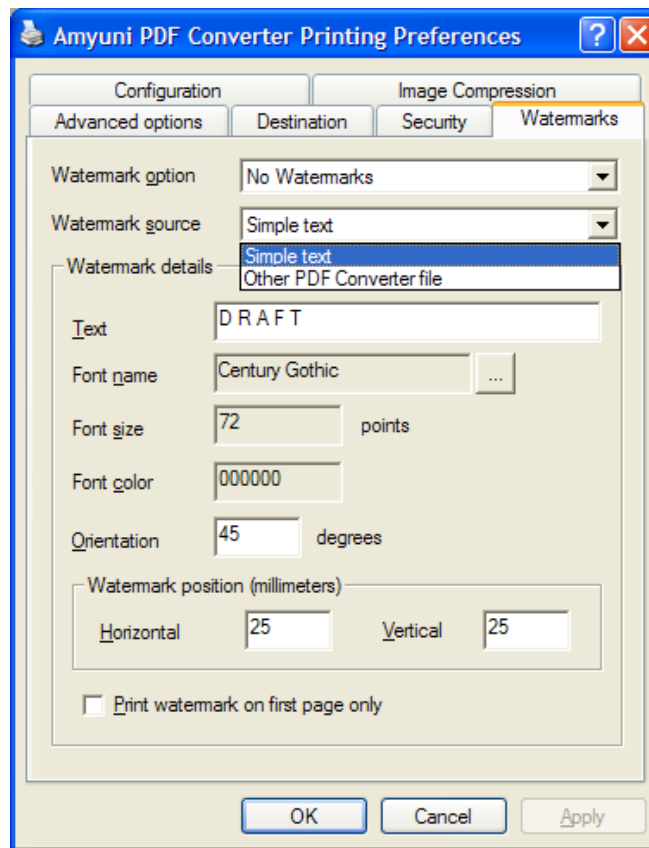


Users who have a document management system (DMS) installed on their system can save the resulting PDF directly into their DMS file storage system. When selecting the “Document Management System” as file destination, the user will see the list of installed DMSs. In most cases, there’s only one DMS installed or one of the DMSs is designated as the default one. Selecting “<default>” will result in the document to be sent to the default DMS, if any.

When the DMS destination type is selected and a valid DMS is installed on the PC, the user will not see the standard PDF Converter “Save As” dialog-box, but another DMS specific dialog-box that will ask the user for information specific to their account. Example :



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.

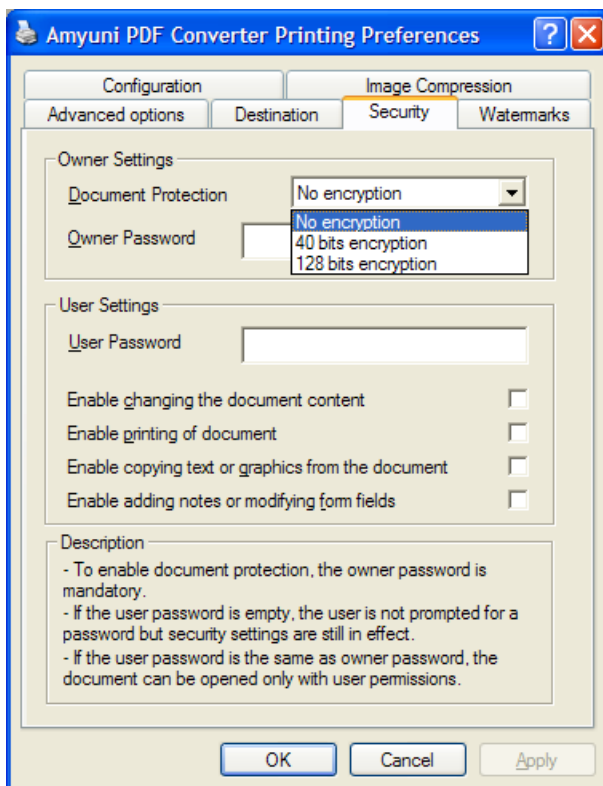
The other fields in this dialog-box define the various text properties used for drawing the watermark, or the file name for the other PDF file if that option was chosen.

Print watermark on first page only

When this option is checked, the watermark will appear only on the first page of the document.

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.

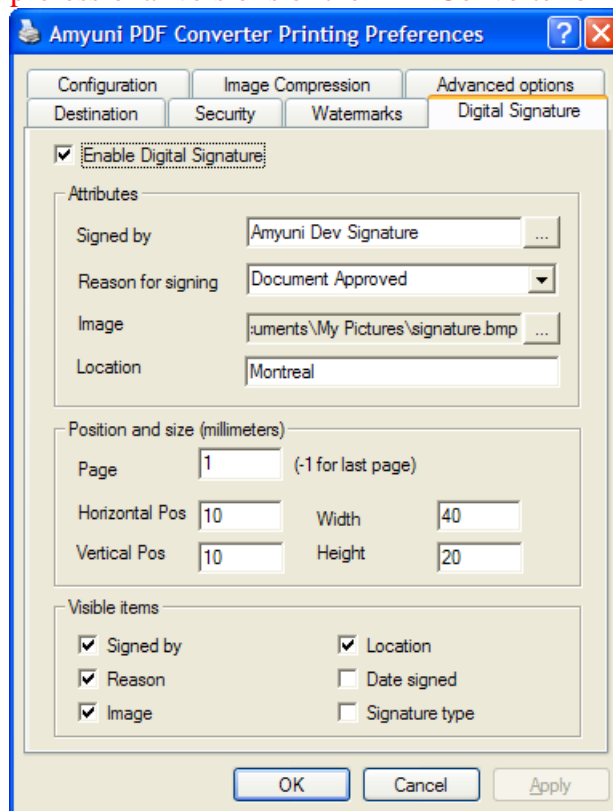
User settings

- 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.

Property Page 7: Digital Signature

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



Enable Digital Signature

Check this option to add a digital signature to the PDF document.

Signed by

This is the name of the digital certificate that is installed on the user's system. Usually it bears the same name as the person using the system. On any system, the user can have more than one digital signature installed from which he/she should choose one. The user can browse for available signatures by pressing the "..." button. Every digital certificate can have one or more "Intended Purpose". The user should select a certificate whose purpose is to sign documents among other purposes. Certificates whose only purpose is "Encrypting File System" cannot be used to sign PDF documents.

Reason for signing

The user should enter here the reason for signing the document, for example "Agreed" or "Certified".

Image

An image can optionally be associated with the digital signature. Click on the "..." button to select an image.

Location

The user can optionally specify where he or she was located when the document was signed.

Position and size

These fields specify on which page and the location on the page where the signature will be placed. Setting all the position parameters to 0 will create an invisible signature which can be used to simply authenticate the document's author.

Visible items

The user can chose to display or hide parts of the signature. Example the image can be either hidden or displayed, same for the reason, the date, ...

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.com/forum/index.php>

Posting questions to our technical support staff:

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

We also provide some additional tools that can be downloaded free of charge and used with the PDF Converter product. These tools are available at:

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