

# Neevia PDFsign/encrypt

user's manual  
version 4.2

<http://neeviaPDF.com/PDFsign>

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## Introduction

Neevia PDFsign/encrypt is a software tool that can be used to digitally sign and/or encrypt PDF files. The main purpose of a digital signature is to uniquely identify the signer of a PDF document and guarantee the integrity of the content.

A digital signature is defined as a data structure associated with a document or other set of data that uniquely identifies the person or organization that is signing, or authorizing the contents of the data and ensures the integrity of the signed data.

PDFsign comes as a command line tool, graphic interface application, COM object and .NET assembly.

Supported platforms are: Windows 2003, Vista, 7, 2008, 2012, 8, 10, 2016, 2019 - 32 and 64 bit.

With Neevia PDFsign/encrypt you can:

- Digitally sign PDF file(s).
- Time-stamp PDF file(s).
- Encrypt PDF file(s).
- Certify PDF file(s).
- Set document information (Title, Author, etc).

## Installing and Uninstalling Neevia PDFsign/encrypt

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### To install Neevia PDFsign/encrypt:

download and save the [http://neeviaPDF.com/prods/PDFsign\\_setup.exe](http://neeviaPDF.com/prods/PDFsign_setup.exe) file onto your hard drive. After downloading the file, double-click on it and follow the instructions. The installation procedure automatically detects your operating system, copies the needed files into your system directory and installs Neevia PDFsign/encrypt.

#### Unattended installation:

To perform an unattended (silent) installation launch the PDFsign/encrypt installer with **/sp /very silent /norestart** command line switches. Here is the full list of supported switches:

#### **/SP**

Disables the "This will install... Do you wish to continue?" prompt at the beginning of Setup.

#### **/SILENT, /VERYSILENT**

Instructs Setup to be silent or very silent. When Setup is silent the wizard and the background window are not displayed but the installation progress window is. When Setup is very silent the installation progress window is not displayed. Everything else is normal so for example error messages during installation are displayed and the startup prompt is (if you haven't disabled it with '/SP' command line option explained above). If a restart is necessary and the **'/NORESTART'** command is not used (see below) and Setup is silent, it will display a "Reboot now?" dialog. If it's very silent it will reboot without asking.

#### **/NOCANCEL**

Prevents the user from canceling during the installation process, by disabling the Cancel button and ignoring clicks on the close button. Useful along with /SILENT.

#### **/NORESTART**

Instructs Setup not to reboot even if it's necessary.

#### **/DIR="x:\dirname"**

Overrides the default directory name displayed on the Select Destination Directory wizard page. A fully qualified pathname must be specified.

#### **/GROUP="folder name"**

Overrides the default folder name displayed on the Select Start Menu Folder wizard page.

#### **/user="username", /company="company name", /serial="serial number"**

Use these switches to pass the registration info (username, company name and serial number) to the installer.



**To remove Neevia PDFsign/encrypt from your computer:**

1. Select **Settings -> Control Panel** from the Start menu.
2. In the Control Panel click **Add/Remove programs** and select **Neevia PDFsign/encrypt** from the applications list.
3. Click the **Add/Remove** button to remove the program. A confirmation prompt is displayed.

**Unattended uninstall:**

To perform an unattended (silent) uninstall, launch **unins000.exe** from the folder where the application has been installed with **/verysilent /norestart** command line switches. Here is the full list of supported switches:

**/SILENT, /VERYSILENT**

When specified, the uninstaller will not ask the user for startup confirmation or display a message stating that uninstall is complete. Shared files that are no longer in use are deleted automatically without prompting. Any critical error messages will still be shown on the screen. When '/VERYSILENT' is specified, the uninstall progress window is not displayed. If a restart is necessary and the '/NORESTART' command isn't used (see below) and '/VERYSILENT' is specified, the uninstaller will reboot without asking.

**/NORESTART**

Instructs the uninstaller not to reboot even if it's necessary.

**How to register Neevia PDFsign/encrypt.**

After you downloaded the product run the installer and at the end of the process enter your registration info. If you do not have a serial number and simply want to test the product select Evaluate Product then click Finish. To register via the graphic interface right click on PDFsign.exe select **Run as administrator**, click About -> Register -> copy and paste your licensing info.

## PDFsign/encrypt command line interface (CLsign.exe)

**Usage:** CLsign.exe <inputfile> <outputfile> [options]

<inputfile> PDF file to sign/encrypt  
 <outputfile> Output PDF file. If left blank then it will be the same as the input file.

### Supported Options

**-u** <password> Open password to input PDF file

**-ver** <value> 2,...,7. Output PDF file version

**-lin** Linearizes output PDF file

**-certsubject** <subject> Locates and load certificate by subject from the local certificate store.

**-certfile** <file> Loads certificate from specified file.

**-certpwd** <pwd> Master password to the certificate.

**-noextracerts** Include only the signing certificate

**-replacesign** <name> Replaces existing signature in PDF file.

**-location** <value> Your location information.

**-reason** <value> Reason for signing this document.

**-contactinfo** <value> Your contact information.

**-signfield** <name> Name of existing signature field to sign.

**-signpage** <page> Page(s) to place signature on (use **0** to place on last page).

**-invisible** Signature is not displayed in the output PDF - it is only viewable in document's signature pane.

Example:

```
CLsign.exe c:\in.pdf c:\out.pdf -certfile c:\cert.pfx -certpwd passwd -invisible
```

**-x** <value> Where on the X axis to place signature.

**-y** <value> Where on the Y axis to place signature.

**-width** <value> Width of rectangle containing signature.

**-height** <value> Height of rectangle containing signature.

**-units** <value> Measurement units to use for -x, -y, -width, -height parameters.  
 Possible values:  
**0** points (Default)  
**1** inches  
**2** centimeters  
**3** millimeters

**-certify** Certify document

**-certifyperms** <val> Specifies the types of changes that are permitted for the document to remain certified. Possible values:  
**0** - Disallow any changes to the document;  
**1** - Only allow form fields fill-in;  
**2** - Only allow commenting and form fields fill-in;

<b>-timestamp</b>	Time stamp signature
<b>-timeserverurl</b> <url>	Time server address (time server has to be TS RFC-3161 compatible)
<b>-timeserveruser</b> <val>	Time server user name (if time server requires authentication)
<b>-timeserverpwd</b> <val>	Time server password (if time server requires authentication)
<b>-viewtype</b>	Specifies what to display in the signature's graphic box 0 - no image; 1 - show signer's name; 2 - show image from file;
<b>-signimage</b> <value>	Image file to associate with signature (when -viewtype 2)
<b>-textboxpos</b>	Text box position in signature field. Possible values: 0 - text box on the left; 1 - text box on the right (default);
<b>-textcolor</b>	Text color in signature field (web format)
<b>-hidename</b>	Hides certificate name in signature field
<b>-hidelabels</b>	Hides field labels
<b>-hidelocation</b>	Hides location info in signature field
<b>-hidereason</b>	Hides reason for signing in signature field
<b>-hidedate</b>	Hides signature date in signature field
<b>-hidedistname</b>	Hides distinguished name in signature field
<b>-customtext</b> <value>	Adds custom text to signature field

## Encryption settings

- owner** <value> Owner password to use for encrypting output PDF file
- user** <value> User password to use for encrypting output PDF file
- rc4** Uses 128 bits RC4 encryption for encrypting output file
- aes** Uses 128 bits AES encryption for encrypting output file
- aes256** Uses 256 bits AES encryption for encrypting output file
- aes256v2** Uses 256 bits AES R6 encryption
- onlyattach** Encrypts only attachments
- nometa** Does not encrypt PDF Metadata
- perms** <value> PDF security permissions to use for encrypting output file flags:
  - p - document printing is denied
  - c - changing the document is denied
  - s - selection and copying of text and graphics is denied
  - a - adding or changing annotations or form fields is deniedThe following flags are defined for 128 bits encryption:
  - i - disables editing of form fields
  - e - disables extraction of text and graphics
  - d - disables document assembly
  - q - disables high quality printing

## Example:

```
CLsign.exe c:\in.pdf c:\out.pdf -owner test -aes256 -perms pcs
```

## Document Info settings

- title** <value> Sets output PDF file title to <value>
- author** <value> Sets output PDF file author to <value>
- creator** <value> Sets output PDF file creator to <value>
- subject** <value> Sets output PDF file subject to <value>
- keywords** <value> Sets output PDF file keywords to <value>

## Example:

```
CLsign.exe c:\in.pdf c:\out.pdf -title "Daily Report"
```

**-openmagn** <value> Sets open magnification (in %) for output PDF file

- 0 - Default
- 1 - Actual size
- 2 - Fit Page
- 3 - Fit Width
- 4 - Fit Height
- 5 - Fit Visible

**-openpage** <value> Sets open page for output PDF file

Example:

```
CLsign.exe c:\in.pdf c:\out.pdf -openmagn 50 -openpage 1
```

**-pm** <value> Specifies how output file should be displayed when opened in PDF viewer.

Possible values:

- 0 - Default view
- 1 - Page only
- 2 - Outlines (bookmarks) visible
- 3 - Thumbnail images visible
- 4 - Optional content group panel visible
- 5 - Attachments panel visible
- 6 - Full screen mode

**-pl** <value> Specifies page layout to use when output file is opened in PDF viewer.

Possible values:

- 1 - Display one page at a time (default)
- 2 - Display the pages in one column
- 3 - Display the pages in two columns, with odd numbered pages on the left
- 4 - Display the pages in two columns, with odd numbered pages on the right
- 5 - Display the pages two at a time, with odd numbered pages on the left
- 6 - Display the pages two at a time, with odd numbered pages on the right

Example:

```
CLsign.exe c:\in.pdf c:\out.pdf -pm 2 -pl 1
```

**-hidemenubar** Specifies if PDF viewer should hide menu bar when output file is displayed

**-hidetoolbar** Specifies if PDF viewer should hide toolbar when output file is displayed

**-hidewindowui** Specifies if PDF viewer should hide user interface elements when output file is displayed

**-fitwindow** Specifies if PDF viewer should resize the document window to fit the size of the first displayed page

**-centerwindow** Specifies if PDF viewer should position the document window in the center of the screen

Example:

```
CLsign.exe c:\in.pdf c:\out.pdf -hidetoolbar -hidemenubar
```

## Using the COM interface to sign/encrypt PDF files

### Class ID

**PDFsign.Neevia**

#### Example:

**Visual Basic:** `Set NVsign = CreateObject("PDFsign.Neevia")`

**Delphi:** `NVsign := CreateOLEObject("PDFsign.Neevia")`

## Using the .NET assembly to sign/encrypt PDF files

To use the PDFsign .NET interface for signing PDF files, in Visual Studio go Project -> Add Reference -> .NET and select **PDFsignNET** from the list. After this:

**Visual Basic:** `Dim NVsign As New PDFsign.Neevia`

**Visual C#:** `PDFsign.Neevia NVsign = new PDFsign.Neevia();`

### **Properties:**

#### **version**

Returns the PDFsign version.

#### **Syntax**

`value = NVsign.version`

Data Type: String

#### **replaceSignature**

Replaces an existing signature in the PDF file.

#### **Syntax**

`NVsign.replaceSignature = value`

Data Type: String

#### **certificateFile**

Specifies the file to load the certificate from.

#### **Syntax**

`NVsign.certificateFile = value`

Data Type: String

#### **certificateSubject**

Locates and loads certificate by subject.

#### **Syntax**

`NVsign.certificateSubject = value`

Data Type: String

#### **certificateSerialNumber**

Locates and loads certificate by serial number.

#### **Syntax**

`NVsign.certificateSerialNumber = value`

Data Type: String

**certificateSHA1Hash**

Locates and loads certificate by its SHA1 hash.

**Syntax**

**NVsign.certificateSHA1Hash = value**

Data Type: String

**certificatePassword**

Master password to the certificate.

**Syntax**

**NVsign.certificatePassword = value**

Data Type: String

**Location**

Specifies your location info (ex: city name).

**Syntax**

**NVsign.Location = value**

Data Type: String

**Reason**

Specifies the reason for signing this document.

**Syntax**

**NVsign.Reason = value**

Data Type: String

**contactInfo**

Specifies your contact info (ex: phone number).

**Syntax**

**NVsign.contactInfo = value**

Data Type: String

**PlaceOnPage**

Specifies the page to place signature on (use 0 to place signature on last page).

**Syntax**

**NVsign.PlaceOnPage = value**

Data Type: Integer

**X**

X-coordinate of signature.

**Syntax**

**NVsign.X = value**

Data Type: Float

**Y**

Y-coordinate of signature.

**Syntax**

**NVsign.Y = value**

Data Type: Float

**Width**

Width of the rectangle containing signature.

**Syntax**

**NVsign.Width = value**

Data Type: Float

**Height**

Height of the rectangle containing signature.

**Syntax**

**NVsign.Height = value**

Data Type: Float

**Units**

Measurement units to use for X, Y, Width and Height parameters.

Possible values: **0** - points (default), **1** - inches, **2** - centimeters, **3** - millimeters

**Syntax**

**NVsign.Units = value**

Data Type: Integer

**Certify**

Specifies whether to certify the output PDF file.

Possible values: **true**, **false** (Default value: false)

**Syntax**

**NVsign.Certify = value**

Data Type: Boolean

**certifyPermissions**

Specifies the types of changes that are permitted for the document to remain certified.

Possible values: **0** - Disallow any changes to the document;

**1** - Only allow form fields fill-in;

**2** - Only allow commenting and form fields fill-in;

**Syntax**

**NVsign.certifyPermissions = value**

Data Type: Integer

**timeStamp**

Specifies whether to time-stamp the signature.

Possible values: **true**, **false** (Default value: false)

**Syntax**

**NVsign.timeStamp = value**

Data Type: Boolean

**timeServerURL**

Specifies the time server url (time server has to be RFC 3161 compatible).

**Syntax**

**NVsign.timeServerURL = value**

Data Type: String



**timeServerUser**

Time server user name (if time server requires authentication)

**Syntax**

**NVsign.timeServerUser = value**

Data Type: String

**timeServerPassword**

Time server password (if time server requires authentication)

**Syntax**

**NVsign.timeServerPassword = value**

Data Type: String

**viewType**

Specifies what to display in the signature's graphic box.

Possible values: **0** - no graphic, **1** - show signer's name, **2** - show image from file;

**Syntax**

**NVsign.viewType = value**

Data Type: Integer

**Image**

Specifies the image file to associate with signature (when ViewType = 2).

**Syntax**

**NVsign.Image = value**

Data Type: String

**textBoxAlign**

Specifies how to align the text box in signature field.

Possible values: **0** - left, **1** – right (default)

**Syntax**

**NVsign.textAlign = value**

Data Type: Integer

**textColor**

Specifies the Text color in signature field (web format).

**Syntax**

**NVsign.textColor = value**

Data Type: String

**customText**

Specifies custom text to add to the signature field.

**Syntax**

**NVsign.customText = value**

Data Type: String

**showLocation**

Specifies whether to show location info in signature field.

Possible values: **true**, **false** (Default value: true)

**Syntax**

**NVsign.showLocation = value**

Data Type: Boolean

**showReason**

Specifies whether to show reason for signing in signature field.

Possible values: **true**, **false** (Default value: true)

**Syntax**

**NVsign.showReason = value**

Data Type: Boolean

**showDate**

Specifies whether to show signing date in signature field.

Possible values: **true**, **false** (Default value: true)

**Syntax**

**NVsign.showDate = value**

Data Type: Boolean

**showDistinguishedName**

Specifies whether to show distinguished name in signature field.

Possible values: **true**, **false** (Default value: false)

**Syntax**

**NVsign.showDistinguishedName = value**

Data Type: Boolean

**showLabels**

Specifies whether to show text labels in signature field.

Possible values: **true**, **false** (Default value: true)

**Syntax**

**NVsign.showLabels = value**

Data Type: Boolean

## ***PDF Encryption related properties***

### **PDFEncrypt**

Specifies whether the output PDF file should be encrypted.

Possible values: **true**, **false** (Default value: false)

#### **Syntax**

**NVsign.PDFEncrypt = value**

Data Type: Boolean

### **PDFEncryptMetaData**

Specifies whether the metadata in the output PDF file should be encrypted.

Possible values: **true**, **false** (Default value: true)

#### **Syntax**

**NVsign.PDFEncrypt = value**

Data Type: Boolean

*Note: Will have effect only if PDFEncrypt = true.*

### **PDFEncryptionType**

Specifies the encryption algorithm

Possible values: **"rc4"** (high - 128 bits RC4 encryption - Acrobat 5-and-later compatible)  
**"aes"** (high - 128 bits AES encryption - Acrobat 6-and-later compatible)  
**"aes256"** (high - 256 bits AES encryption - Acrobat 9-and-later compatible)  
**"aes256v2"** (high - 256 bits AES R6 encryption - Acrobat X-and-later compatible)

#### **Syntax**

**NVsign.PDFEncryptionType = value**

Data Type: String

*Note: Will have effect only if PDFEncrypt = true.*

### **PDFUserPassword**

Sets the user password in the output document. Users will be asked to enter this password before Acrobat Reader allows them to view the document.

#### **Syntax**

**NVsign.PDFUserPassword = value**

Data Type: String

*Note: Will have effect only if PDFEncrypt = true.*

### **PDFOwnerPassword**

Sets the output document owner password. This option will force the user of the PDF to enter a password before Acrobat Reader allows them to change the user password and security permissions.

#### **Syntax**

**NVsign.PDFOwnerPassword = value**

Data Type: String

*Note: Will have effect only if PDFEncrypt = true.*

**PDFPermissions**

PDF security permissions to use for encrypting output file. Possible values:

- p - document printing is denied
- c - changing the document is denied
- s - selection and copying of text and graphics is denied
- a - adding or changing annotations or form fields is denied

The following flags are defined for 128 bits encryptions:

- i - disables editing of form fields
- e - disables extraction of text and graphics
- d - disables document assembly
- q - disables high quality printing

**Syntax**

**NVsign.PDFPermissions = value**

Data Type: String

Example:

**NVsign.PDFPermissions = "pcsa"**

***PDF Initial View & Metadata related properties*****DocumentTitle**

Sets the output document Title field.

**Syntax**

**NVsign.DocumentTitle = value**

Data Type: String

**DocumentSubject**

Sets the output document Subject field.

**Syntax**

**NVsign.DocumentSubject = value**

Data Type: String

**DocumentAuthor**

Sets the output document author field.

**Syntax**

**NVsign.DocumentAuthor = value**

Data Type: String

**DocumentKeywords**

Sets the output document keywords field.

**Syntax**

**NVsign.DocumentKeywords = value**

Data Type: String

### PageMode

Specifies how output file should be displayed when opened in PDF viewer.

Possible values:

- 0 - Default view
- 1 - Page only
- 2 - Outlines (bookmarks) visible
- 3 - Thumbnail images visible
- 4 - Optional content group panel visible
- 5 - Attachments panel visible
- 6 - Full screen mode

#### Syntax

**NVsign.PageMode = value**

Data Type: Long

### PageLayout

Specifies page layout to use when output file is opened in PDF viewer.

Possible values:

- 1 - Displays one page at a time (default)
- 2 - Displays the pages in one column
- 3 - Displays the pages in two columns, with odd numbered pages on the left
- 4 - Displays the pages in two columns, with odd numbered pages on the right
- 5 - Displays the pages two at a time, with odd numbered pages on the left
- 6 - Displays the pages two at a time, with odd numbered pages on the right

#### Syntax

**NVsign.PageLayout = value**

Data Type: Long

### OpenMagnification

Specifies the open magnification (in %) for output PDF file. Default value: 100

#### Syntax

**NVsign.OpenMagnification = value**

Data Type: Long

### OpenAtPage

Specifies the open page for output PDF file. Default value: 1 (first page)

#### Syntax

**NVsign.OpenAtPage = value**

Data Type: Long

### FitWindow

Specifies whether the PDF viewer should resize the document's window to fit the size of the first displayed page.

Possible values: **true, false**

#### Syntax

**NVsign.FitWindow = value**

Data Type: Boolean

**CenterWindow**

Specifies whether the PDF viewer should position the document's window in the center of the screen.

Possible values: **true, false**

**Syntax**

**NVsign.CenterWindow = value**

Data Type: Boolean

**HideMenuBar**

Specifies whether Acrobat Reader should hide the menu bar when displaying the output PDF document.

Possible values: **true, false**

**Syntax**

**NVsign.HideMenuBar = value**

Data Type: Boolean

**HideToolbar**

Specifies whether Acrobat Reader should hide the toolbar when displaying the output PDF document.

Possible values: **true, false**

**Syntax**

**NVsign.HideToolbar = value**

Data Type: Boolean

**HideWindowUI**

Specifies whether Acrobat Reader should hide the user interface when displaying the output PDF document.

Possible values: **true, false**

**Syntax**

**NVsign.HideWindowUI = value**

Data Type: Boolean

## Methods

### SignPDF

Signs the specified PDF file.

#### Syntax

```
Res = NVsign.SignPDF( fileToSign, outputFile )
```

#### Parameters

**fileToSign** - input PDF file (PDF file to sign).

**outputFile** - output PDF file name.

#### Example

```
Res = NVsign.SignPDF("c:\in.pdf", "c:\out.pdf")
```

#### Remarks

Res<>0 on error

### CertificateExists

Checks if a specified certificate exists in the local machine store.

#### Syntax

```
Res = NVsign.EncryptPDF( certSubject )
```

#### Parameters

**certSubject** – certificate subject.

#### Example

```
Res = NVsign.CertificateExists("Test cert")
```

### CreateCertificate

Creates a self-signed certificate.

#### Syntax

```
Res = NVsign.CreateCertificate( certFile, CommonName, Org, OrgUnit, City, State, Country, Email, DaysCertIsValid, Passwd )
```

#### Parameters

**certFile** - (string) - output certificate file.

**CommonName** - (string) - The common name of the certificate.

**Org** - (string) - The organization (company name).

**OrgUnit** - (string) - The organizational unit (ex: accounting dept.).

**City** - (string) - The city.

**State** - (string) - The state.

**Country** - (string) - The country.

**Email** - (string) - The email address.

**DaysCertIsValid** - (long) - The number of days the certificate is valid from current date.

**Passwd** - (string) - The password to use for the certificate's private key.

#### Remarks

Res<>0 on error

#### Example

```
Res = NVsign.CreateCertificate("c:\cert.pfx", "neeviaPDF", "Neevia Tech", "PDFsign", "Fort  
Lauderdale", "FL", "US", "support@neeviaPDF.com", 720, "test")
```

**ImportCertificate**

Imports a certificate from file into the local store.

**Syntax**

```
Res = NVsign.ImportCertificate( certFile, Passwd )
```

**Parameters**

**certFile** - certificate file to import.

**Passwd** - certificate's private key password.

**Example**

```
Res = NVsign.ImportCertificate("c:\in.pfx", "test")
```

**Remarks**

Res<>0 on error

**EncryptPDF**

Encrypts the specified PDF file.

**Syntax**

```
Res = NVsign.EncryptPDF( fileToEncrypt, outputFile )
```

**Parameters**

**fileToEncrypt** - input PDF file (PDF file to encrypt).

**outputFile** - output PDF file name.

**Example**

```
Res = NVsign.EncryptPDF("c:\in.pdf", "c:\out.pdf")
```

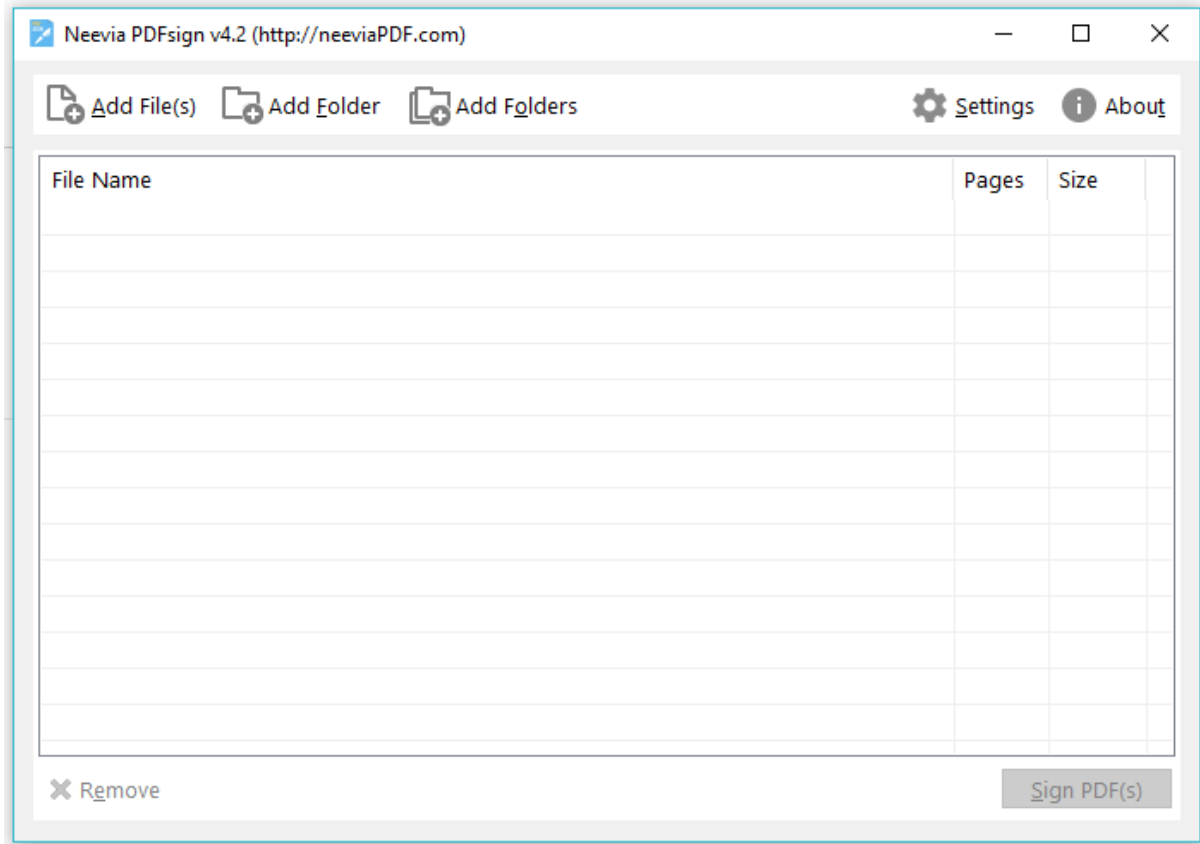
**Remarks**

Res<>0 on error



## Using the graphic interface to sign PDF files

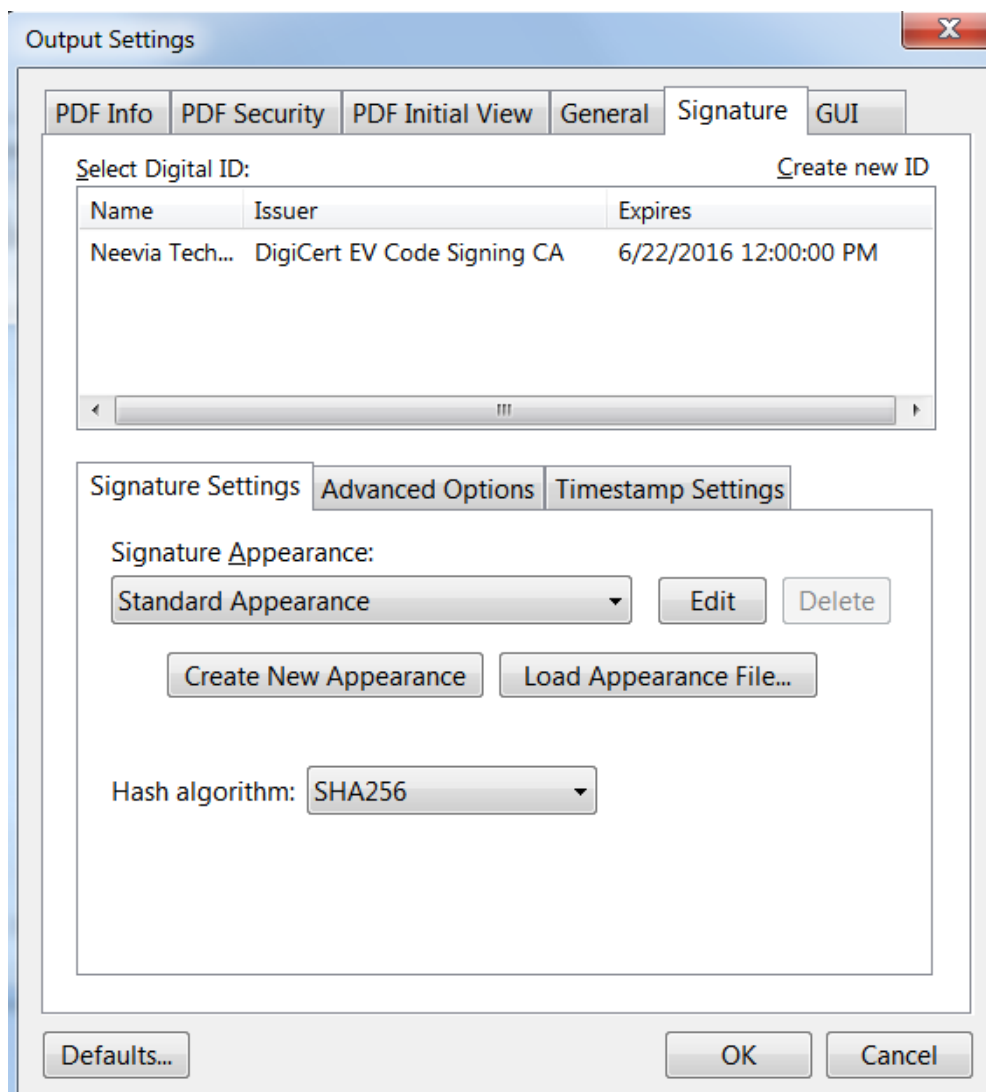
In order to digitally sign PDF files using the graphic interface you need to execute PDFsign.exe located, by default, under C:\program files (x86)\neeviaPDF.com\PDFsign\apps.



Click **Add files** to select the PDF files to be digitally signed. In case you would like to sign all PDF files in a folder simply click **Add folder**, navigate to the destination folder then click OK. For multiple folders click **Add folders**.

## Output Settings

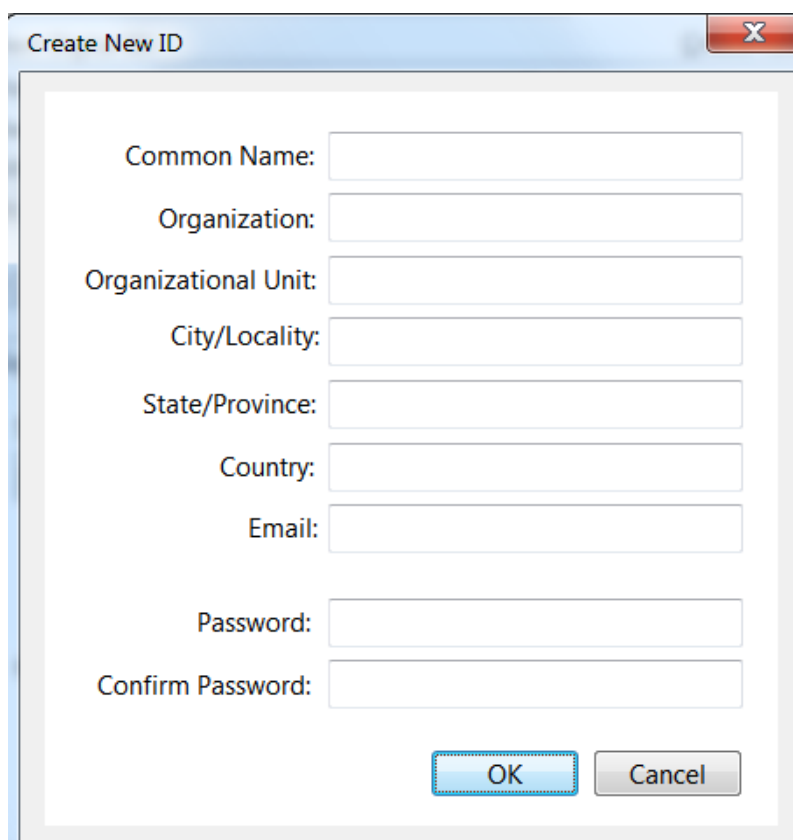
Before signing PDF files you need to specify the output settings. To do that click on the **Settings** button. The interface below will be displayed.



## Signature Settings

In this window you'll see all the certificates installed on your computer and have to select the one you want to use to digitally sign your PDF files. If nothing is listed in the Digital ID box that means no certificate is installed and you either need to install one or if you do not want to do that use the **Create new ID** button to create a new digital certificate.

When **Create new ID** is clicked the window below will be displayed.



The image shows a 'Create New ID' dialog box with the following fields:

- Common Name:
- Organization:
- Organizational Unit:
- City/Locality:
- State/Province:
- Country:
- Email:
- Password:
- Confirm Password:

Buttons: OK, Cancel

This allows you to create a public key certificate that you can use for digitally signing PDF files. Unlike the certificates issued by certain certification authorities the one generated by PDFsign is not pre-trusted by Adobe Reader/Acrobat. You will have to manually add it to the trusted identities via the signature in your PDF document.

To do that:

- open the PDF containing the user's self-signed signature.
- click the signature in the document to check whether it's valid.
- click *Signature Properties*, and then click *Show Certificate*.
- in the *Certificate Viewer* dialog box, click the *Details* tab and note the MD5 digest and SHA1 digest values (fingerprint) in case you want to contact the certificate's originator to confirm that the values are correct. The certificate should be trusted only if the values are correct.
- after you verify that the certificate information is correct, click the *Trust* tab, click *Add To Trusted Identities*, click OK, specify trust options, and click OK

The fields in the above window are known as the certificate's *Distinguished Name* which is used to uniquely identify the signing entity. Each field is explained below:

**Common name:** the name that distinguishes the certificate best, and ties it to your organization. For example in the case of an SSL web server certificate you need to enter your exact host and domain name that you wish to secure (www.yourdomainname.com). This may also be the root server or intranet name for your organization. Do not include the "http://" or "https://" prefixes in your common name. Do not enter your personal name in this field.

**Organization:** the name under which your business is legally registered. The listed organization must be the legal registrant of the domain name in the certificate request. If you are a small business/sole

proprietor you need to enter the certificate requestor's name in the "Organization" field, and the DBA (doing business as) name in the "Organizational Unit" field.

**Organizational Unit:** (optional) - use this field to differentiate between divisions within an organization (for example: "Engineering" or "Human Resources"). If applicable, you may enter the DBA (doing business as) name in this field.

**City/Locality:** the full name of the city/locality in which your organization is registered/located. Do not abbreviate.

**State/Province:** name of state, province, region, territory where your organization is located. Please enter the full name. Do not abbreviate.

**Country Code:** the two-letter International Organization for Standardization (ISO-) format country code for the country in which your organization is legally registered.

**Password:** in this field you must to enter the password that will protect the access to your private key. Use a password of at least eight characters.

### **Advanced Options**

In this section you can specify the *reason for signing* a PDF document , *location* and *contact information*.

Reason for signing a document contains the following by default:

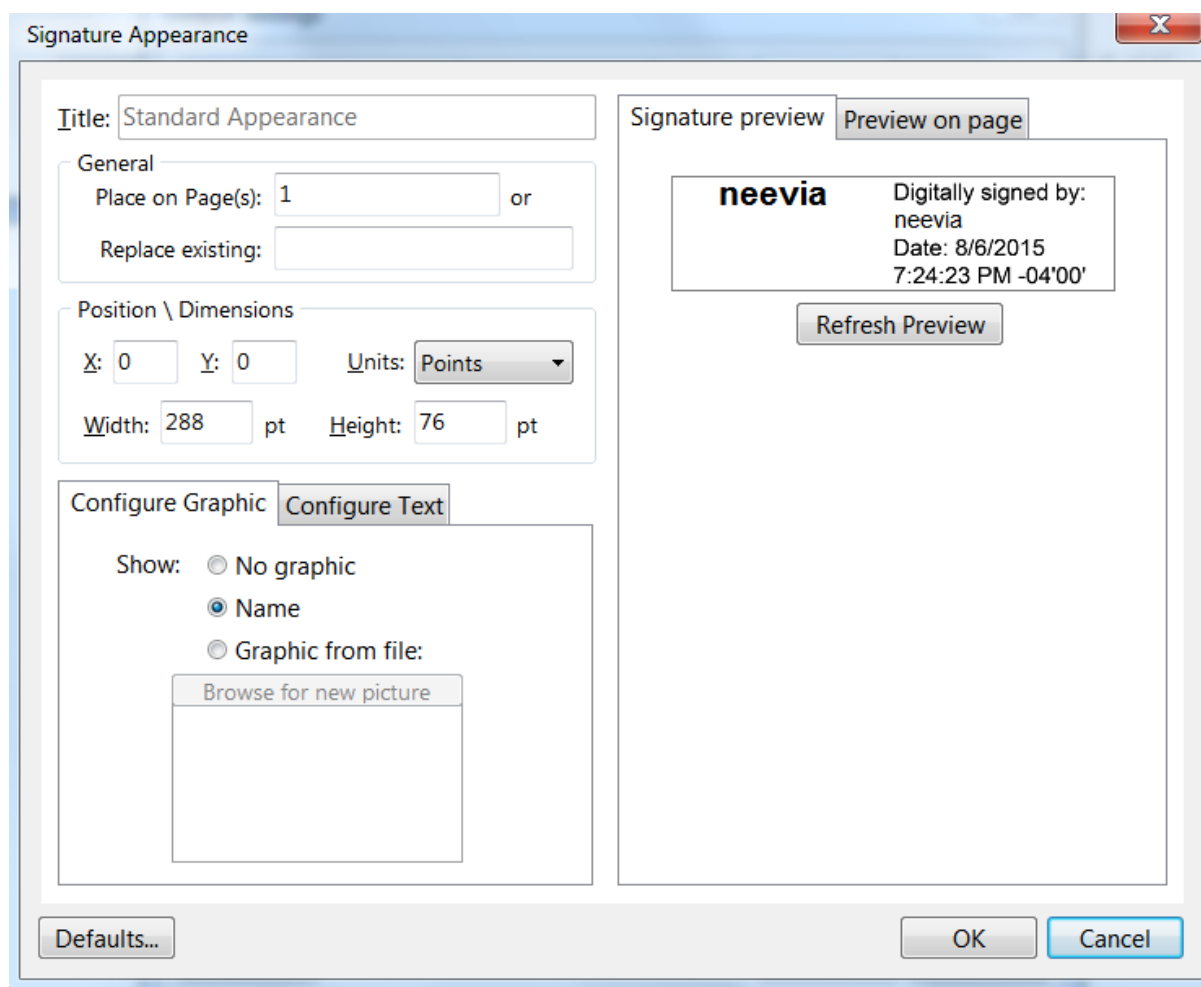
- this document is ready for review;
- I am the author of this document;
- I have reviewed this document;
- I am approving this document;
- this document is ready for review;
- this document is ready for approval;
- document is certified;
- document is released;
- I have reviewed specified portions of this document;

You can define your own reason for signing a document by editing any of the options above.

Once you are done with this a signature appearance needs to be defined by clicking on the **New** button in the **Signature Appearance** section. If you do not want to do that the standard appearance will be used.

In case you would like to make your signature invisible instead of *Standard Appearance* select **Invisible** then click **New** to create the digital signature.

To modify the default settings click **Edit**. The window below will be displayed:



In the **General** section you can specify on which page to place the signature. If zero (0) is entered your signature will be automatically placed on the last page.

In case the PDF document already contains a digital signature field that you want to use, type its name in the **Replace existing** textbox.

**Position:** here you can enter the X and Y values in points that determine where on the selected page(s) your signature is placed. If you use positive values the coordinate system origin will be in the upper left corner. In case negative values are used the coordinate system origin will be in the lower right corner.

**Dimensions:** allows you to enter the width and height of the rectangle that will contain your signature. In this section you can also specify the units of measurement you want to use: points, inches, centimeters, millimeters.

**Configure graphic:** it allows you to associate a picture with your digital signature which can be a scanned image of your handwritten signature or any image you want. Check **Graphic from file** then *Browse for new picture* to select your desired image. In case you do not want any picture associated with your signature simply select **No graphic**. Should you check **Name** instead of an image the signer name will be used.

**Configure Text:** in this section you can define the text color for your digital signature and select what fields to show.

The following are available:

- name
- location
- date
- labels
- reason
- DN name

Except for Labels and DN name the rest of the fields are self-explanatory.

**DN name:** shows the user attributes defined in your digital ID. It may also include name, organization and country.

**Labels:** when you check this option you see all available labels like *Digitally signed by, Date, Location, Reason*. After this click on the down arrow for **Text box position** to select how to align the text in the rectangle containing your signature. It can be on the right or left.

At all times during the process of defining your signature you can see how it will look like in the two preview sections:

**Signature preview:** this, as the name suggests displays a preview of your signature.

**Preview on page:** shows where exactly on page your signature is placed.

Click *Refresh preview* to see the last change(s) made.

**Certify Signature:** this is a signature that certifies a PDF document and can be applied only if the PDF was never signed. This type of signature allows for the following changes:

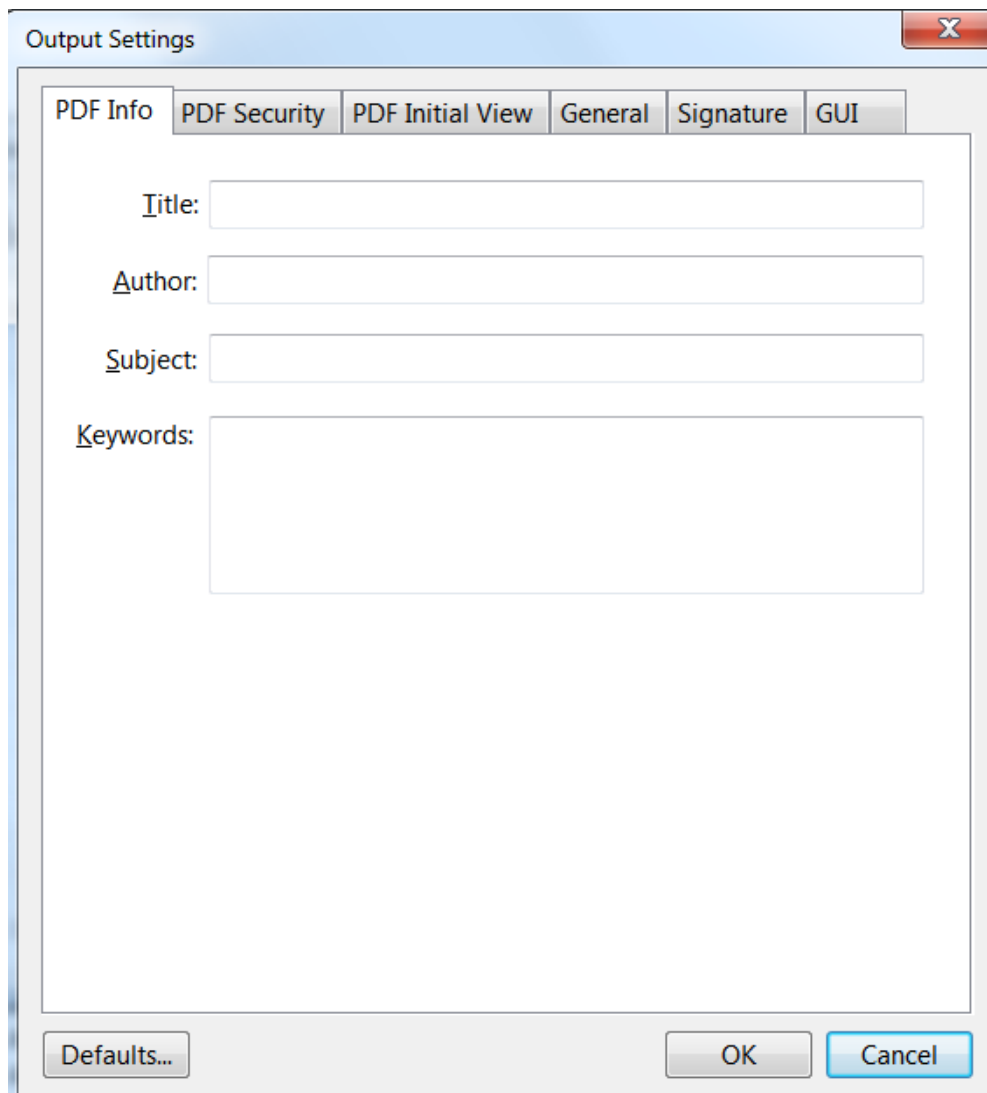
- disallow any change to the document;
- only allow form fill-in;
- only allow commenting and form fill-in;

If any other changes than the ones specified above are made to a PDF when the file is certified, the certifying signature becomes invalid.

**Time-stamp signature:** the main purpose of a time stamp is to reduce the chance of an invalid signature by helping to prove that nothing was changed after the signature was applied. In order to apply a time stamp you need to have an account with a 3rd party time stamping authority and enter your credentials (user name and password) along with the server Internet address in the corresponding textboxes.

## PDF Information

It allows you to specify Title, Author, Subject and Keywords for the signed file.



## PDF Security

To encrypt the output PDF file, check **Encrypt Document** then select the encryption level from the Compatibility drop down box. There are 6 options:

- a. Acrobat 3.0 and later (PDF 1.2) enables 40 bit RC4 encryption (weak - not recommended)
- b. Acrobat 5.0 and later (PDF 1.4) enables 128 bit RC4 encryption
- c. Acrobat 6.0 and later (PDF 1.5) enables 128 bit RC4 encryption
- d. Acrobat 7.0 and later (PDF 1.6) enables 128 bit AES encryption
- e. Acrobat 9.0 and later (PDF 1.7) enables 256 bit AES encryption
- f. Acrobat X and later (PDF 1.7 ext3) enables 256 bit AES R6 encryption

### Encrypt All Document Contents

When you select this option both the document and document metadata will be encrypted. Search engines will not be able to access the document metadata when this option is used.

**Encrypt All Document Contents Except Metadata**

This is valid for Acrobat 6 and later. Only the contents of a PDF document will be encrypted. Metadata remains fully accessible for search engines.

**Require a Password to Open the Document**

This allows you to set a password for opening the encrypted PDF.

**Change Permissions Password**

This password prevents users from changing the permission settings. The user can view the file in Acrobat Reader but must enter the specified Permissions password in order to change the file's Security and Permissions settings.

**Permissions**

**Printing Allowed** - Specifies the level of printing that users are allowed for the PDF document.

Possible values:

**None** - Disables printing.

**Low Resolution (150 dpi)** - Users can print but the resolution will not be higher than 150-dpi.

Each page is printed as a bitmap image which may cause files to print at a slower speed. To make this option available set the Compatibility option to Acrobat 5 (PDF 1.4) or later.

**High Resolution** - Allows users to print at any resolution. PostScript and other printers that come with high-quality printing features can be used.

**Changes Allowed** - Enables the editing actions that are allowed in the PDF document. Possible values:

**None** - when selected none of the changes listed in Changes Allowed drop down box, such as filling in form fields and adding comments are permitted.

**Inserting, Deleting, And Rotating Pages** - allows users to insert, delete, and rotate pages. Also bookmarks and thumbnails creation are permitted. This option works only for high (128-bit RC4, AES or AES256) encryption.

**Filling in Form Fields and Signing Existing Signature Fields** - when selected users can fill in forms and add digital signatures. Adding comments or creating form fields is not permitted. This option works only for high (128-bit RC4, AES or AES256) encryption.

**Commenting, Filling In Form Fields and Signing Existing Signature Fields** - users are allowed to add comments, digital signatures and fill in forms. Moving page objects or create form fields is not permitted.

**Page Layout, Filling in Form Fields and Signing** - users can insert, rotate or delete pages and create bookmarks or thumbnail images, fill out forms, and add digital signatures. Creating form fields is not permitted. This option works only for low (40-bit RC4) encryption.

**Any Except Extracting Pages** - allows users to edit the document, create and fill in form fields, add comments and digital signatures.

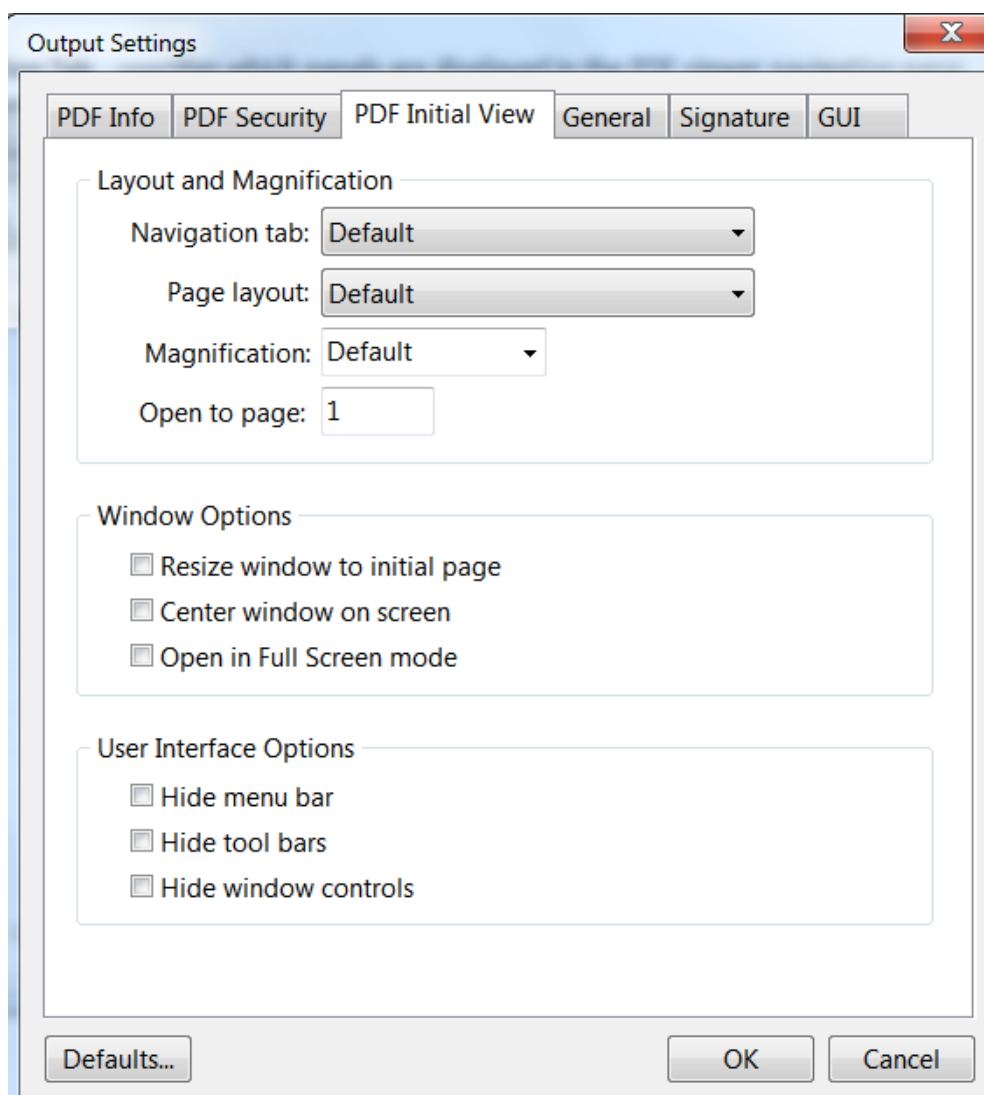
**Enable Copying of Text, Images, and Other Content** - allows users to select and copy the contents of a PDF.

**Enable Text Access For Screen Reader Devices For The Visually Impaired** - when selected visually impaired users can read the document with screen readers. It doesn't allow users to copy or extract the document's contents. This option works only for high (128-bit RC4, AES or AES256) encryption.



## PDF Initial View

In this window you can set the PDF Initial View options:



**Navigation Tab** - specifies which panels are displayed in the PDF viewer navigation pane.

**Page Layout** - specifies how document pages are arranged.

**Magnification** - use this to select at what zoom level the document will appear when opened.

**Open To Page** - specifies the page that appears when the PDF document opens.

**Window Options** - these options allow you to specify how the PDF viewer window adjusts in the screen area when a PDF document is opened.

**Resize Window To Initial Page** - adjusts the document window to fit snugly around the opening page, taking into account the options that you selected under Document Options.

**Center Window On Screen** - instructs the PDF viewer to position the window in the center of the screen area.

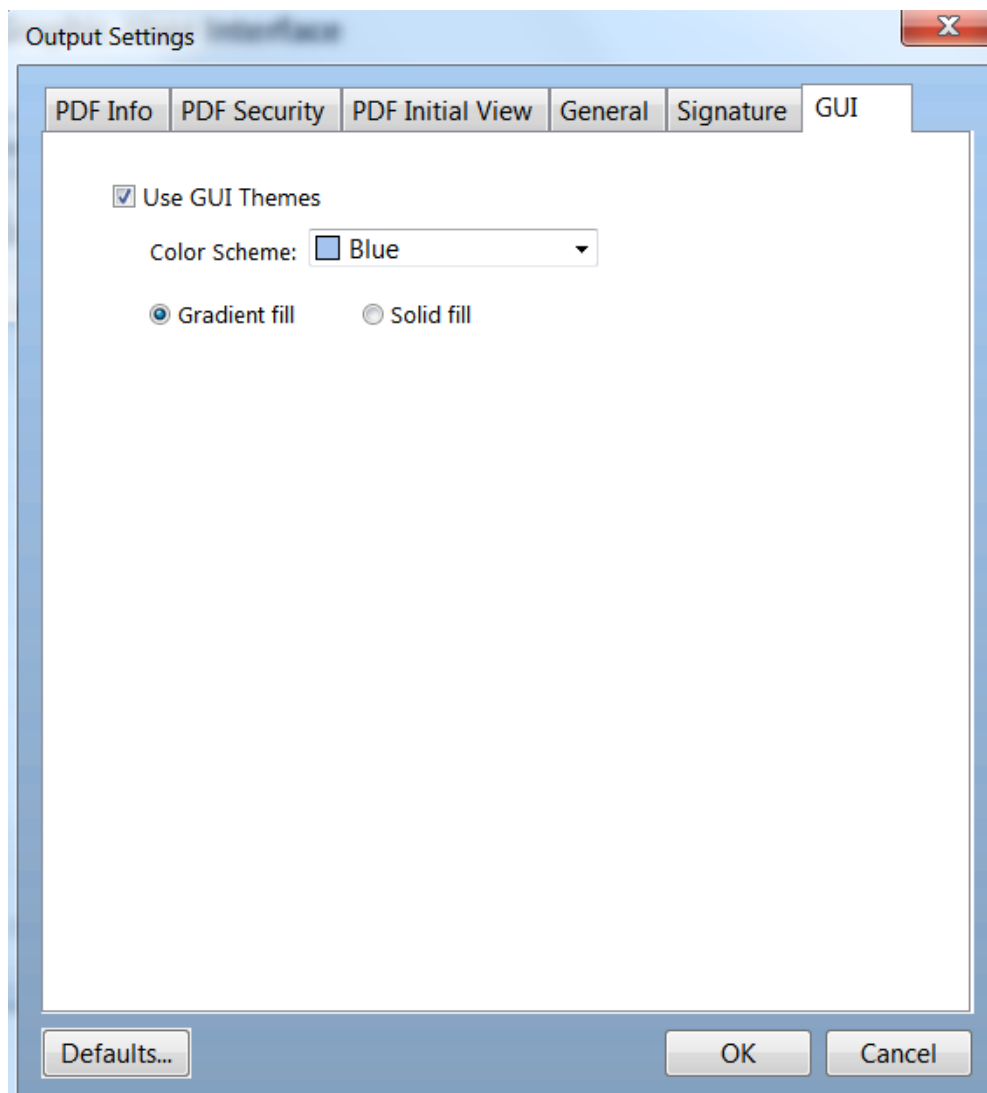
**Open In Full Screen Mode** - maximizes the document window and displays the document without the menu bar, toolbar, or window controls.

### User Interface Options

These options allow you to specify which parts of the PDF viewer interface - the menu bar, the toolbars, and the window controls - are hidden.

*Note: take into account that if you hide the menu bar and toolbars users cannot apply commands and select tools unless they know the keyboard shortcuts.*

## GUI - Graphic User Interface



In this window you can select the Graphic User Interface themes. Check Use GUI Themes to enable the Color Scheme. Once that is enabled check either Gradient fill or Solid fill to specify how the color will be displayed.

## CODE SAMPLES

For a full and updated list of PDFsign/encrypt code samples please visit <http://neeviaPDF.com/support/examples/pdfsign/>

### Example 1vb. Sign a PDF file with an invisible signature (Visual Basic)

```
Dim NVsign : Set NVsign = CreateObject("PDFsign.Neevia")
NVsign.CertificateSubject = "Test certificate"
NVsign.CertificatePassword = "password"

NVsign.Reason = "I am the creator of this document"
NVsign.Invisible = true

Dim retVal : retVal = NVsign.SignPDF("c:\in.pdf","c:\out.pdf")
If retVal <> 0 Then
    MsgBox("Error code=" & CStr(retVal))
Else
    MsgBox("Done")
End If
```

### Example 1delphi. Sign a PDF file with an invisible signature (Delphi)

```
uses ComObj;
.....

procedure TForm1.Button1Click(Sender: TObject);
var
    NVsign : Variant;
    retVal : Integer;
begin
    NVsign := CreateOleObject('PDFsign.Neevia');

    NVsign.CertificateSubject := 'Test certificate';
    NVsign.CertificatePassword := 'password';

    NVsign.Reason := 'I am the creator of this document';

    NVsign.Invisible := true;

    retVal := NVsign.SignPDF('c:\in.pdf', 'c:\out.pdf');
    if retVal <> 0 then
        Application.MessageBox(PChar('Error code=' + IntToStr(retVal)),'',0)
    else
        Application.MessageBox('Done','',0);
    end;
```

## Example 2vb. Sign and timestamp a PDF file (Visual Basic)

```
Dim NVsign : Set NVsign = CreateObject("PDFsign.Neevia")

NVsign.CertificateFile = "c:\cert.pfx"
NVsign.CertificatePassword = "pwd"

NVsign.TimeStamp = true
NVsign.TimeServerURL = "http://tsa.neeviaPDF.com/tsa"

NVSign.Units = 1
NVsign.X = 0
NVSign.Y = 0
NVSign.Width = 6
NVSign.Height = 2

NVSign.ViewType = 1

NVSign.Reason = "I am the creator of this document"
NVSign.TextColor = "#0000FF"

Dim retVal : retVal = NVsign.SignPDF("c:\in.pdf", "c:\out.pdf")
If retVal <> 0 Then
    MsgBox("Error code=" & CStr(retVal))
Else
    MsgBox("Done")
End If
```

## Example 2delphi. Sign and timestamp a PDF file (Delphi)

```
uses ComObj;
.....

procedure TForm1.Button1Click(Sender: TObject);
var
    NVsign : Variant;
    retVal : Integer;
begin
    NVsign := CreateOleObject('PDFsign.Neevia');

    NVsign.CertificateFile := 'c:\cert.pfx';
    NVsign.CertificatePassword := 'pwd';

    NVsign.TimeStamp := true;
    NVsign.TimeServerURL := 'http://tsa.neeviaPDF.com/tsa';

    NVsign.X := 0;
    NVSign.Y := 0;
    NVSign.Width := 6;
    NVSign.Height := 2;
    NVSign.Units := 1;
```

```
NVSign.ViewType := 2;  
NVSign.Image := 'c:\stamp.jpg';  
  
NVSign.Reason := 'I am the creator of this document';  
NVSign.TextColor := '#0000FF';  
  
retVal := NVsign.SignPDF('c:\in.pdf', 'c:\out.pdf');  
if retVal <> 0 then  
  Application.MessageBox(PChar('Error code=' + IntToStr(retVal)),'',0)  
else  
  Application.MessageBox('Done','',0);  
end;
```