

# How to Use SimpleSigner

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## Using StepOver SimpleSigner to sign a PDF/A File

Order	Required	Parameter	Usage
1.	Yes	Filename of the document to sign	c:\Users\max\Desktop\Testfile.pdf
2.	Yes	X1 coordinate	200
3.	Yes	Y1 coordinate	200
4.	Yes	X2 coordintate	400
5.	Yes	Y2 coordinate	400
6.	Yes	Number of the page where the signature shold be added Default: 1	you can give the direct page number or use '-' prefix to start from the end of the document -1 last page; -2 the page before the last page; etc.
7.	Optional	1 = Add a stamp with name, reason and the actual date below the signature Default = 0	
8.	Optional	Reason for signing	"I agree with the content of the documet"
9.	Optional	Name of the signer	"Max Power"
10.	Optional	Save File with attribtue write protected	default = true
<b><i>Other Parameters like TextOut, noconfirm, viewpdf...have to placed after the required parameter</i></b>			

The Parameters 2-5 (X1, Y1, X2, Y2) indicate the left upper and the lower right coordinates of a rectangle on the given page. The visible signature will be added into the coordinates of the rectangle

The parameters can be handed to SimpleSigner from a customer applicatione.g. a batch-file. it is highly recommended that you set every parameter into quotation marks because spaces in a parameter (e.g. filename) will be interpreted as a new parameter.

A sample could look like this:

**SimpleSigner.exe "C:\users\max\testfile.pdf" 200 200 400 400 -1 1 "I agree with the content of the document" "Max Power" true**

## Using StepOver SimpleSigner to save an image of the signature as .bmp or .jpg

Order	Parameter	Usage
1.	Filename where the image shold be saved (File extensioncould be *.bmp *.jpg or *.jpeg)	"C:\Users\Max\Desktop\MySignature.jpg"
2.	X = width of the image	150
3.	Y = height of the image	100
<b><i>Other Parameters like TextOut, AutoSaveSig...have to placed after the Y Parameter</i></b>		

A sample could look like this:

**SimpleSigner.exe "C:\users\max\My Signature.jpeg" 200 100**

## Additional parameter

the following parameter have to ba at the end at the starting parameter described above

Paramter	Usage
TextOut-	<p>This parameter shows a line of text on the screen of the signature device.</p> <p>The output text has to be entered directly after the TextOut- Parameter, e.g.:  <b>TextOut-Text</b></p> <p>Be careful with spaces:  If you are going to use spaces you will have to place the parameters in quotation marks.  <b>"TextOut-Written text"</b></p> <p>Texts with a number of lines:  You can enter a number of consecutive TextOut- parameters. The first parameter appears on the first line, the second on the second line, etc:  <b>"TextOut-this text will appear first," "TextOut-this other one will follow "</b></p> <p>Spaces:  If you only handle the TextOut parameter (followed by a space) a space will appear on the pad screen.  <b>"TextOut-1. line," TextOut- "TextOut-3. line."</b></p> <p>In combination with the parameters for creating a JPEG from a signature, the startup parameters could be as follows:  <b>SimpleSigner.exe "C:\Test\Test.jpg" 250 100 "TextOut-Please sign now"</b></p>
Timeout-	<p><i>If SimpleSigner is started to make a signature:</i></p> <p>This parameter indicates the number of seconds after which signing will automatically close. Should the signing not have started after the time indicated, the program will close itself.  When signing has been started, the clock will cancel itself and the program will act as it would do without this parameter.</p> <p>The number of seconds has to be entered after the parameter, for example:  <b>"TimeOut-15"</b>  In this case 15 seconds would be counted.</p> <p>In combination with the parameters for creating a JPEG from a signature, the startup parameters could be as follows:  <b>SimpleSigner.exe "C:\Test\Test it.jpg" 250 100 TimeOut-20</b></p> <p><i>If SimpleSigner is started to seal a document:</i></p> <p>The parameter indicates how long the notification window with <i>Sealing succeeded</i> or <i>Sealing failed</i> message should be shown. If <i>TimeOut -0</i> is specified, notification window is not shown. Nevertheless, exit code and CancelLog is set correctly.</p> <p>Default value is 5 seconds.</p>
AutoSaveSig-	<p>This parameter saves the signature automatically two seconds after signing is completed.  <b>SimpleSigner.exe "C:\Test\Test.jpg" 250 100 "AutoSaveSig-2"</b></p> <p>To give the user more than two seconds, the number which appears after the AutoSaveSig- parameter can be changed.  <b>SimpleSigner.exe "C:\Test\Test.jpg" 250 100 "AutoSaveSig-5"</b>  In this last example, the signature will be saved 5 seconds after the signing process on the pad ends.</p> <p><i>Note: This Parameter is not working with TCP Client (Serversonet), because TCP Client has an own Parameter for this function. You can find more Informations about this Functions in the Manual of TCP Client.</i></p>
CancelLog-	<p><i>If SimpleSigner is started to make a signature:</i></p> <p>If cancelled this creates a file in the meta directory with the text "Signature cancelled".</p> <p><i>If SimpleSigner is started to seal a document:</i></p> <p>String "Sealed=true" or "Sealed=false" is written to the log file.  The name of the file is entered after the CancelLog parameter. If a file name is not given, the file will be given the default name "CancelLog.ret".</p> <p>Example:  <b>SimpleSigner.exe "C:\Test\Test.jpg" 250 100 "AutoSaveSig-5" "CancelLog-Cancel.txt"</b></p>
Stretch	Zooms signature image to occupy the whole signature field.

FontSize-	<p>Specifies font size for signature device's LCD.</p> <p>Example:  <b>SimpleSigner.exe "C:\Test\Test.jpg" 250 100 "TextOut-Please sign now" "fontsize-12"</b></p> <p>or</p> <p><b>SimpleSigner.exe "C:\Test\Test.jpg" 250 100 "TextOut-Please sign now" "fontsize-24"</b></p>
Res-	<p>This parameter allows you to override the signature image size and use a different value than size of signature window. By default the signature image (bmp or jpeg) is created with the same size (X1 by Y1). The <i>res-</i> parameter allows to create images of arbitrary size.</p> <p>Example:  <b>SimpleSigner.exe "signature.bmp" 200 150 res-1024x768</b></p>
noconfirm	Hides document hash confirmation dialog
viewpdf	<p>View document on device before signing, actual signing started after click on green sign button on device's LCD.  <b>This Button is only available on the naturaSign Pad Colour and Brilliance Pad</b></p> <p>Sample:  <b>SimpleSigner.exe "C:\Mustermann.pdf" 200 200 400 350 1 0 False viewpdf</b></p>
viewpdf-	<p>View defined page of document on device before signing, actual signing started after click on green sign button on device's LCD.  <b>This Button is only available on the naturaSign Pad Colour and Brilliance Pad</b></p> <p>negative values are pages from the end, positive from beginning of document.</p> <p>Sample: (view page 2 from mustermann.pdf)  <b>SimpleSigner.exe "C:\Mustermann.pdf" 200 200 400 350 1 0 False viewpdf-2</b></p>
signondoc	<p>This signature mode shows the document background during the signature on the device</p> <p>Sample:  <b>SimpleSigner.exe "C:\Mustermann.pdf" 200 200 400 350 1 0 False signondoc</b></p>
foreground-	<p>To change the background image for the default signmode. The format must be BMP and the Size 640x310.</p> <p>Sample:  <b>SimpleSigner.exe "C:\Test\Test.jpg" 250 100 "foreground-C:\Test\Image.bmp"</b></p>
mouse	enables the Mouse as drawing device for the simplesigner. The mouse counts as Tablet PC, therefor the TabletPC Extension is required.
winSize-	<p>This parameter allows to configure the Windows Size of the SimpleSigner and was added for the usage with TabletPC to increase the signing area.</p> <p>Sample:  <b>SimpleSigner.exe "C:\Test\Test.jpg" 250 100 winSize-500x200</b></p>
hidegui	<p>With this Parameter the SimpleSigner Windows is not showed anymore, only the Pad Search Dialog will be visible.</p> <p>Sample:  <b>SimpleSigner.exe "C:\Test\Test.jpg" 250 100 autosavesig-3 hidegui</b></p>

By default the SimpleSigner is managing the button behavior from the device, the Parameter `buttonconfig` allows to change the default behavior, for example to disable specific Buttons.

buttonconfig-	<p>The Parameter contains values for the ButtonID, Mode, Status and Colour for a single or for multiple buttons. The HashDialog is not effected from this Parameter and only effects the ColourDevices (ColourPad, Comfort, Flawless and Brilliance). To disable the Hashdialog use "noconfirm" Parameter.</p> <p>Syntax:  <i>-ButtonOptions-ButtonID-Mode-Status-Colour:ButtonID-Mode-Status-Colour:...</i></p> <p>Arguments:  <i>ButtonID</i></p> <p>200: Zoom into Page  201: Zoom out of Page</p>
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- 202: Next Page or Signature
- 203: Previous Page or Signature
- 204: Start Sign from Pad
- 205: Rotate Display (left / right hand mode)
- 206: OK
- 207: Repeat
- 208: Cancel

#### *ModeType*

- 0: default signature mode (Flags in Background)
- 5: Document view mode
- 6: sign in document mode

#### *Enabled / Visable*

- 0: disable
- 1: enable

#### *Color*

BGR color of the button, 32 Bit (TColor type in Delphi):

Bit 31 - 24 : 00h (all zero)

Bit 23 - 16 : Intensity of **Blue**

Bit 15 - 08 : Intensity of **Green**

Bit 07 - 00 : Intensity of **Red**

The value 00FF0000 represents full-intensity, pure **blue**.

The value 0000FF00 is full intensity pure **green**.

The value 000000FF is pure **red**.

The value 00000000 is black.

The value 00FFFFFF is white.

The default used color values are:

Blue = 00FF0000

Green = 00369000

Yellow = 0038CCF0

Red = 001A00E2

White = 00FFFFFF

Grey = 00B5B5B5

Sample:

**SimpleSigner.exe "C:\Mustermann.pdf" 200 200 400 350 1 0 False signondoc "buttonconfig-205-0-0-0:205-5-0-0"**

(disable the Rotation Button for DocumentView und defaultSignmode)

**SimpleSigner.exe "C:\Mustermann.pdf" 200 200 400 350 1 0 False signondoc "buttonconfig-206-6-0-0:207-6-0-0:208-6-0-0"**

(disable the OK / Repeat / Cancel button inside the SignInDocument Mode)

## Zoom/Placement Options

The following options allows to modify the default settings of the SignInDoc mode

zoomsigx- zoomsigy-	<p>Parameter force the to show the signature fields in a specific size (mm) on the pad display. You can either use zoomsigx for forcing the width or zoomsigy for forcing the height</p> <p>Sample:</p> <p><b>SimpleSigner.exe "C:\document.pdf" 200 200 400 350 1 0 False signondoc zoomsigx-100</b> (signature field has a width of 100mm, the height depends of the Y coordinates)</p> <p><b>SimpleSigner.exe "C:\document.pdf" 200 200 400 350 1 0 False signondoc zoomsigy-50</b> (signature field has a height of 50mm, the width depends of the X coordinates)</p>
possigx- possigy-	<p>Parameter to define the placement based on the bottom/left corner of the signature pad. The 2 Parameter can be combined and the value is in mm.</p> <p>Sample:</p> <p><b>SimpleSigner.exe "C:\document.pdf" 200 200 400 350 1 0 False signondoc possigx-30 possigy-50</b> (signature field is placed 3cm right into right and 5cm into top, from bottom/left)</p>
areasig-	<p>Parameter to set how much percent of display should be filled with the signature field. For duraSign Pad 10.0 the zoomsig and possig have to be set 0.</p> <p>Sample:</p> <p><b>SimpleSigner.exe "C:\document.pdf" 200 200 400 350 1 0 False signondoc zoomsigx-0 zoomsigy-0 possigx-0 possigy-0 areasig-50</b> (50% signature field for duraSign Pad 10.0)</p>

rectsigl- rectsigt- rectsigr- rectsigb-	<p>Parameters which allow the restrict the signing area were you can draw the signature</p> <p>Sample:</p> <p><b>SimpleSigner.exe "C:\document.pdf" 200 200 400 350 1 0 False rectsigl-49 rectsigr-895 rectsigt-303 rectsigb-534</b> (defines the signature area by the duraSign Pad 10.0 to the grey area)</p>
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## Encryption Setting

StepOver Signature Pads with Firmware 7.x or higher support bigger encryption keys for the biometric and the digital signature. The Pads have at least 3 sets of encryption Keys. The First (ID=0) has keys with the length of 2048 which was the standard of the pads until 2020. The new Firmware supports biodata encryption with a key of 4096 and the digital signature (only without "noconfirm" parameter) of 3072. The default by a Pad with Firmware 7.x is the set with the highest Encryption set (ID=2), by older devices there is only 1 set which is automatically used.

Company	ID	Name	DigitalSig Keypair	Biometric Key
StepOver GmbH	0	StepOver cryptoldv1	2048	2048
	1	StepOver 2048/4096	2048	4096
	2	StepOver 3072/4096	3072	4096
StepOver International	0	StepOver cryptoldv1	2048	2048
	1	StepOver Int 2048/4096	2048	4096
	2	StepOver Int 3072/4096	3072	4096

cryptoid-<ID>	<p>Define the encryption set by the ID.</p> <p>Sample:</p> <p><b>SimpleSigner.exe "C:\document.pdf" 200 200 400 350 1 0 False "cryptoid-1"</b></p>
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cryptoid-<Name>	Define the encryption set by the Name.  Sample: <b>SimpleSigner.exe "C:\document.pdf" 200 200 400 350 1 0 False "cryptoid-StepOver 2048/4096"</b>
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## Returnvalue

Value	Description
2	TCP/IP Connection Timeout
1	successfull
-1	Abort with Cancel button (inside SimpleSigner or on the device)
-2	Error occured, no info about cause.
-3	Error while embedding the signature into the PDF
-4	Timeserver access error (NOT IMPLEMENTED YET.SHOULD NEVER OCCURE)
-5	unhandled application crash (Exception) occured
-12	temp file hash is incorrect
-20	document is not loaded. not existing or not accessible
-21	document erroneous (biodata string or container defect)
-22	document is sealed oder hash is encrypted with unknown key
-26	the signatureimage is wrong (max 5 pixel signature or max 50 biodata frames embedded)
-28	failure in imagestream from pad
-29	signature field is to small, height and width needs to be higher an 20
-30	image could not be saved
-300	SimpleSigner,eSignatureOffice,WebSign,SecureSign is already running

## eCalculation of the PDF coordinates

The top/left has the value 0/0 and for the calculation you can yuse the following formula:

A4= 8.27 x 11.69 inch with 72points/inch = 595x842 points

1 point = 0.0352777778 centimeters

1point = 0.0138888889 inch

Example: 5cm are 142 points (5cm / 0.0352777778 = 141,7323)