



n2pdf Server Task Developer manual



n2pdf ...PDF your Notes

Version 4.0



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n2pdf Server Task Online Help

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1 n2pdf Server Task Online Help



Version 4.0

This online help provides a basic technological overview of the n2pdf Server Task and how to use it.

The first part, "[Technical Details](#)", is designed for the Notes administrator for assistance in setting up the Server Task and the corresponding databases. The "[Job Document](#)" section describes the conversion jobs. This part is intended for the administrator and the user.

For

... additional information or product updates, please visit the [n2pdf website](#).

... assistance during integration please contact [n2pdf Support](#).

Use the "Search" command in the "Help" menu to get assistance on a specific issue or subject.

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Dated: 20.09.2010

2 Introduction

The n2pdf Server Task is an application for converting Notes data into the PDF format. It is possible to transfer single documents, the overall view or databases into PDF files, taking the Notes-specific elements into account. Format-specific settings (e. g. encryption) can be used for the creation of the PDF files.

The application can be started as a stand-alone program ([Client Mode](#)) or loaded as a "plug-in" ([Server Mode](#)) on a Domino Server.

The application is supplied with all necessary information in the form configuration

documents (Notes documents) and a job database (Notes database). Based on this information, the Notes contents are then converted into PDF documents.

Conversions can either be scheduled, or done as one-off jobs. These jobs can be created by administrators or users, depending on the how the access to the configuration database is set.

The conversions are performed by individual "converter instances" (threads). This means that several jobs can be executed at once. Thus the application can be adapted to existing hardware (e.g. number of processors).

A connection to an "attachment converter" allows file attachments to be processed too (converted, imported or embedded).

The n2pdf Server Task is [licensed](#) as an independent application.

The [n2pdf website](#) or [n2pdf Support](#) are available for further information.

2.1 Licensing

A separate license must be obtained for the n2pdf Server Task. The form of the licensing corresponds to the mode of use for the application (on the Domino Server or Notes client) and the number of converter instances used. A [registration key](#) is supplied during the licensing.

Two forms of licensing are available:

(1) Licensing as a Domino Server task ([Server Mode](#))

This licensing is always a "per server license". The n2pdf Server Task is loaded as a server task on the Domino Server (Server Mode). The registration key is based on the canonical [name of the Domino server](#) and constitutes a "per server license" (also see the license agreement in the program group). It does not matter how many users are accessing the Domino Server or how many applications, databases or Job Documents you are processing in Server Mode.

(2) Licensing as a client task ([Client Mode](#))

The licensing of the server task for use on a notes client (Client Mode) is "per computer". The n2pdf Server Task is started as a "stand-alone" program on a

computer with installed Notes Client. The registration key is based on the canonical [name of the user ID](#) which is used in the installed client. It does not matter how many databases, applications or Job Documents you are processing with the n2pdf Server Task in Client Mode.

OEM License

The n2pdf Server Task is also available as an OEM license for marketing with another standard application (e.g. for archiving) or hardware. The standard license is a computer- or server-linked license for the end customer for his own use. If you want to develop a standard application or market n2pdf Server Task with an existing solution, you need an OEM license. Coupling with a hardware solution is also possible, and this too requires an OEM license.

To purchase or receive information on OEM licenses please send an E-mail to sales@n2pdf.com or call +49 661 25100-0.

2.2 Notes name

A [license](#) for the n2pdf Server Task (Server or Client Mode) is always tied to a Notes name (server or user name). In order to have a valid license key (issue of a [registration key](#)), the Notes server name is needed for Server Mode licensing, and the Notes user name for Client Mode licensing. The names must be given in the canonical format (with the identifiers CN, OU, O and C).

Examples:

CN=Joe Bloggs/O=Company/C=DE

CN=Mail Server/O=Company/C=DE

Find Notes name?

The name (user or server name) is shown in the main window of the program "n2pdf Registration" (n2pdfReg.Exe). By means of the button to the left of the name, this name is copied to the Windows clipboard and may then be pasted e.g. into an E-mail.

2.3 Registration Key

For installation (or subsequent activation), a [registration key](#) is needed (regardless of whether it is a [demo](#) or [full version](#)). When purchasing the [full version](#), you receive this registration key in the form of a license certificate.

During the installation you have to enter your [Notes name](#) and the registration key in the installation program. The registration key is stored in the [configuration file](#).

Registration Key Components

The key consists of a total of 22 characters organized as follows:

Example: NS - 40 - 01234567890ABCEF

NS	Product identification
-	Hyphen
40	Version number
-	Hyphen
01234567890ABCEF	Registration information



Please check for accuracy when entering the key. The characters are not case sensitive.

2.4 Full version

When purchasing a full version you must decide on a type of [licensing](#). A full version is always tied to a [Notes name](#). The number of converter instances available as maximum is specified.

When purchasing a full version you receive a license certificate with the license details and the [registration key](#). The registration key lets you unlock an installed version without re-installing.

Order full version

Send an E-mail to sales@n2pdf.de with the subject line "n2pdf – Order", or use the PDF order form. An E-mail order must contain at least the following information:

- Number of licenses
- For an update, the serial number or the [registration key](#) of the previous version
- Notes user name or server name (depending on the [type of licensing](#)) in the canonical format (with the identifiers CN, OU, O and C)
- The complete address including the name and e-mail address of the contact

2.5 Demo version

A demo license is available for n2pdf Server Task. This demo license can run for 30 days. A maximum of 5 converter instances can be activated in the demo version. If a greater number is needed for test purposes, you can request more using our [Support](#) service.

A [registration key](#) is also needed for the demo license. You will find it on the download page when downloading the product, or in the document content when receiving it by E-mail.

There are no functional restrictions in the demo version compared to the full version. There is a watermark in the upper left margin of the created PDF files. This watermark is not present in the [full version](#).

A demo version is not restricted to the [Notes name](#) and can thus be used on the [Notes client or the Domino Server](#).

Unlock demo version

Once you have bought a full version, you can use the "n2pdf product registration" program (you will find the icon in the program group) to unlock the demo version. There is no need to re-install it.

2.6 Prices

You can find the current price list for the n2pdf Server Task on the website www.n2pdf.com.

2.7 Website

The website provides further documentation, updates and the most recent information about the product. You can visit the website at the following address: www.n2pdf.de

2.8 Support

The support service offers assistance in solving any problems that might arise while using the application. You can reach the support service via the following media:

By telephone at:	+49 661 25100-0
By fax at:	+49 661 25100-25
Via Internet E-mail at:	support@n2pdf.de
On our website at:	www.n2pdf.de

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StarOffice, OpenOffice, and Java are registered trademarks of [Oracle Corporation](#).

Archives are processed on the basis of the 7-Zip program. 7-Zip is licensed under the GNU GPL license. You can find the current version and the source code for 7-Zip at www.7-zip.org.

Parts of the graphics import function were implemented with the [Vampyre Imaging Library](#). This library was published under the [Mozilla Public License](#) (MPL) and the use of this library is governed strictly by the regulations of the MPL V 1.1. Additional information about the MPL can be found on the MPL website.

TIFF support was implemented with the [LibTIFF](#) library. This library is available for free. For more information, go to the following website: <http://www.libtiff.org/misc.html>.

Parts of the web service connection feature were implemented with the [Synapse](#) library (copyright by Lukas Gebauer). This is a freeware and open-source library licensed under a modified "[BSD-style license](#)."

2.10 Symbols and Marking

The Help function is designed to make work as easy as possible for you. Because of this, clearly-marked elements are placed throughout its sections. These specially emphasized help symbols and their corresponding meaning are as follows:



Caution!

Warns of operating errors and describes what you have to do in order to avoid them.



Help in case of a problem

Describes possible problems and helps fix them.



Note

Provides important information and, if necessary, the steps that you should take in the manner described.



Tip

Shows alternative methods and provides additional information.

3 Technical Details

The technical aspects of the n2pdf Server Task are explained in this part of the documentation. You'll find some advice on [how to work](#) with the Server Task, and on the [operating mode](#). There is also some information about the [installation](#) and the supported [operating systems](#), and about [configuration](#). Finally, you will find information about the [constants](#) and about dealing with [attachments](#).

3.1 Functional description

The n2pdf Server Task works with two databases. These two databases are stored in the data directory during an installation, in the form of Notes design templates ("n2pdfInbox.ntf" and "n2pdfJobs.ntf"). When the Server Task is first started, these

two templates are used to create corresponding databases (.nsf). The Server Task uses these two created databases for processing the [PDF jobs](#). The Server Task cannot work without these two databases.



n2pdf InBox

Like the Domino mail router, the Server Task works like an InBox. It constantly monitors the database "n2pdfInbox.nsf". When a job appears in this database, the Server Task takes this job and creates the PDF file(s) from it. The Job Documents are normal Notes documents, which have a particular structure. This document contains all the information the Server Task needs to create the PDF file. The information is stored in the Job Documents using fields with defined names. Each of these fields begins with the prefix "\$N2PDF" and is therefore easily distinguished from other Notes fields. It makes no difference to the Server Task whether the job document is a scheduled or a one-off job. It takes each job document that appears (according to the priority sorting of the database) and processes it according to the settings in the document. A document can reach this database in various ways:

- via the database "n2pdfJobs.nsf" (one-off or scheduled job)
- by defining the database as a mail-in database (Notes address book)
- through agents/scripts in other databases which create documents directly in this database

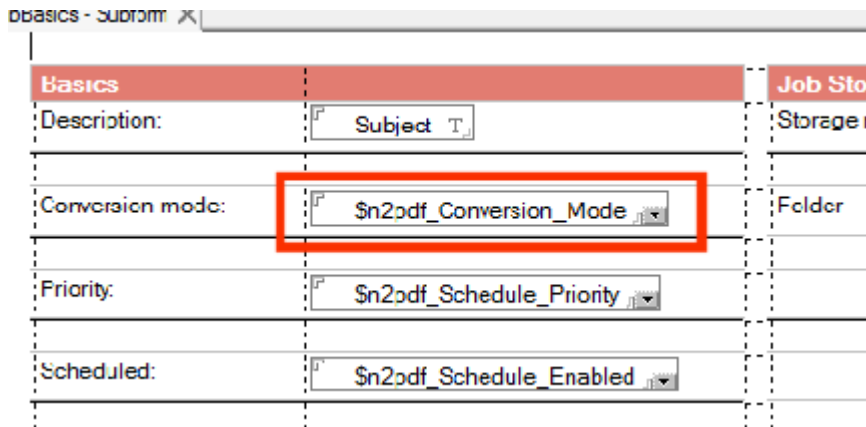


n2pdf Jobs

This database handles two tasks for the Server Task. On the one hand, the jobs that have to be executed periodically are stored in this database: the Server Task monitors this database, and starts jobs when their time interval dictates that they have to be run. On the other hand, the database offers the option of defining one-off jobs and starting them. When a job is started (whether scheduled or one-off), the job

document is always copied from this database into the Inbox database. Only there the job is processed by the Server Task.

The database contains (sub-)forms with Notes fields which have the prefix "\$N2PDF". These fields are "recognized" by the Server Task, and interpreted according to the information.



Basics		Job Stor
Description:	<input type="text" value="Subject"/>	Storage r
Conversion mode:	<input type="text" value="\$n2pdf_Conversion_Mode"/>	Folder
Priority:	<input type="text" value="\$n2pdf_Schedule_Priority"/>	
Scheduled:	<input type="text" value="\$n2pdf_Schedule_Enabled"/>	

The database "n2pdfJobs.nsf" offers the simplest option (e.g. for users) for creating jobs for the Server Task. However, it is always possible to create the jobs directly in "n2pdfInbox.nsf". To do this, simply generate a document there with exactly the same field names as in this database. In this way you can arrange the generation of jobs from your own database.

3.2 Client or Server Mode

You can use the n2pdf Server Task in two modes:

- Client Mode
- Server Mode

There is technically no difference between the two modes in terms of functional scope or capacity. However, the two modes allow you to adapt the use of the n2pdf Server Task to your infrastructure.

Client Mode

In this mode you start the n2pdf Server Task as a stand-alone application directly from the program group. The application runs as an independent Windows application. An installed [Notes client](#) is needed for execution. The n2pdf Server Task is installed in this Notes directory and uses the Notes connection there (e.g. ID of the

Notes client or selected working environment).

This operating mode is suitable for the following cases:

- Your Notes servers run on "non-windows" operating systems and/or you have no Windows server in use.
- You have high (service) requirements (continuous load) for the PDF creation and need the computing power / hardware exclusively for this (dedicated server for PDF creation).
- You also use the external conversion server "[webPDF Server](#)" and want to run both applications on the same machine (optimal performance).

Server Mode

In Server Mode the n2pdf Server Task is loaded as an "add-in" on the [Domino Server](#) ("load n2pdf"). It works as a server task on the Domino Server and also with its ID and settings. A Domino Server on a Windows operating system is required.

This operating mode is suitable for the following cases:

- You are using a Windows based Domino Server.
- You have free (hardware) resources on the server and/or only normal load (no continuous load) for the PDF creation.

3.3 Operating System and Notes Version

Operating system

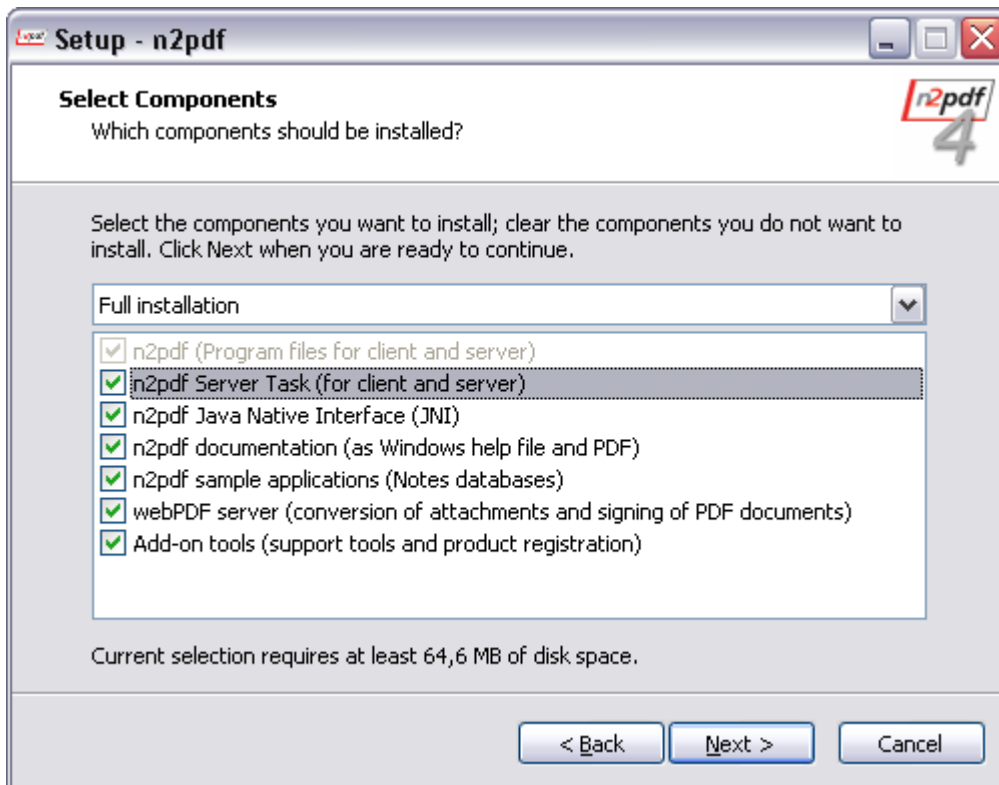
The n2pdf Server Task runs only on Windows operating systems. In [Server Mode](#) it can be used on the server operating systems Windows 2003 and Windows 2008, in [Client Mode](#) on Windows XP, Windows Vista and Windows 7.

Notes Version

In Server Mode the n2pdf Server Task can be used with Version 6.0 or higher of the Domino Server(32bit/ 64bit), in Client Mode with the Notes Client(32bit only) Version 6.0 or higher. n2pdf Server Task has been tested in both modes up to and including Version 8.x.

3.4 Installation

For an automatic installation, execute the n2pdf installation program. The n2pdf installation program lets you install the various product parts of n2pdf. This documentation describes the program module "n2pdf Server Task", which you can choose in the dialog that follows.



The installation program then automatically configures and installs the required files.

For an installation on the client ([Client Mode](#)), all necessary files are stored in the directory of the Lotus Notes client. It makes no difference if you are using a local or shared installation.

For an installation on the server ([Server Mode](#)), all necessary files are stored in the directory of the Domino Server.

You can find a list of all files, e.g. for a manual installation, in the "[List of files](#)".

3.5 Configuration file

The general configuration of the n2pdf Server Task takes place in the "nn2pdf.ini" file. This file is created during installation in the Notes or Domino directory.

Two sections can be present in this INI file:

- [RegKey]
- [Server]

"[RegKey]" section

The [license](#), i.e. the [registration key](#), is stored in this section.

Key=

The registration key is stored in this entry.

"[Server]" section

All settings for the Server Task are stored in this section.

MaxThreads=

With this value you can set the max. number of converter instances used. Please note that the max. value for this setting is the max. value of the [licensing](#). For example, if you have licensed five converter instances, this is the max. value for this setting. However, a lower value is possible.

LogLevel=

With this setting you decide the scope of the messages which appear on the console. Enter a value here between 0 and 3 (default: 2):

0 = no messages

1 = only error messages will be displayed

2 = error messages and short status messages (standard mode)

3 = detailed display of error and status messages

Interval=

This value specifies the time interval (default: 500 ms) at which the Server Task looks for new jobs. It is specified in milliseconds (minimum: 100 ms).

SchedulerInterval=

This value specifies the time interval (default: 2000 ms) at which the scheduler of the Server Task looks for scheduled jobs. It is specified in milliseconds (minimum: 1000 ms).

CompactInbox=

If this value is set to 1 (default), the "Inbox" of the Server Task is packed each night at 02:00. No conversion is possible during this time, because all converter instances are put on hold.

Language=

Set the language number for the message display:

7 = German

9 = English

The default value is determined by the operating system settings. Default language is English.

CommandLineMode= (Client Mode only)

Set this value to 1 (default: 0) if the application should be terminated automatically after all jobs of the application are executed. The n2pdf Server Task starts, processes all currently pending jobs, and terminates immediately.

WaitOnError= (Client Mode only)

Set this value to 1 (default: 0), if the application should wait for a keystroke on completion. If an error occurred during the processing of jobs and the application comes to an end, the application waits for a keystroke. This enables you to read the error message. The use of this parameter is only meaningful in conjunction with "*CommandLineMode=1*".

3.6 Constants

Constants are a special type of [variable](#), and are based on the same working principle. The difference is that they have permanent names and their content is automatically computed by n2pdf, which means it cannot be set from outside. Constants are inserted where placeholders are found in the PDF.

Example for a constant in a RichText field

Page [ACTPG] of [SUMPg]



You cannot use any names for [variables](#) that are already assigned to constants.

The following constants can be used in the [body field](#) and in [headers and footers](#):

[ACTPG]	Current page number	1
[SUMPGE]	Number of pages	10
[DATETIME]	Current date and time	28.11.2003 16:21:40
[DATES]	Current date in short form	28.11.2003
[DATEL]	Current date in long form	Friday, 28 November 2003
[TIMES]	Current time in short form	16:21
[TIMEL]	Current time in long form	16:21:40
[DAYS]	Current day without preceding zero	5
[DAYL]	Current day with preceding zero	05
[DAYNAMES]	Current day name in short form	Fr
[DAYNAMEL]	Current day name in long form	Friday
[MONTHS]	Current month without preceding zero	5
[MONTHL]	Current month with preceding zero	05
[MONTHNAMES]	Current month name in short form	Nov
[MONTHNAMEL]	Current month name in long form	November
[YEARS]	Current two-digit year	03
[YEARL]	Current four-digit year	2003
[CWS]	Current calendar week without preceding zero	8
[CWL]	Current calendar week with preceding zero	08
[HOURS]	Current hour without preceding zero	4
[HOURL]	Current hour with preceding zero	04
[MINUTES]	Current minute without preceding zero	6
[MINUTEL]	Current minute with preceding zero	06
[SECONDS]	Current second without preceding zero	9
[SECONDL]	Current second with preceding zero	09
[CRLF]	Line break	
[NEWPG]	Page break	



Please keep in mind that some values for the constants depend on the system's regional settings, which means that in certain circumstances they may produce different results.

3.7 Attachments

The n2pdf Server Task can process attachments that are stored in the Notes documents. It is possible to [embed](#) these attachments in the created PDF file, to [convert](#) the attachments themselves into PDF documents or to [import](#) the attachments as content. When converting attachments the Server Task uses the [webPDF Server](#) for the conversion. The attachments in the Notes documents can also be present in [packed](#) form.

3.7.1 Embedding file attachments

The n2pdf Server Task can also transfer attachments from documents to be processed into the PDF file to be created. These attachments are left in the original format and inserted (embedded) in the PDF file as an attachment.

Various settings can be used to determine e.g. whether the file is embedded at the original position or attached at the end of the PDF file. The display form, e.g. original program symbol or PDF icon, can also be specified.



Please note that when PDF/A is activated, embedding is not possible because of the specification.

3.7.2 Importing file attachments

The n2pdf Server Task has a range of small integrated import filters for image formats. These can be used to read various formats and import them into the PDF format. The various file formats are processed "natively", i.e. the original application is not needed. You can see the supported formats in the table below. These file formats can be transferred directly into the contents of the PDF file.

Detailed information about the supported formats (versions) can be found in the document "[Supported formats](#)".



Please be aware that these import filters do not provide 100 % of the capability of the original target applications. Thus there may be variances in the display, in the import capabilities and/or the supported features of the file format in question. It is also possible that certain features of the original file format are not supported at all.

Format description	File extension
JPEG	*.JPG; *.JPEG
Portable network graphic images	*.PNG
TIFF images	*.TIF; *.TIFF
GFI fax images	*.FAX
Truevision images	*.TGA
ZSoft Paintbrush images	*.PCX
Kodak Photo-CD images	*.PCD
CompuServe images	*.GIF
Standard Windows bitmap images	*.BMP
Photoshop images	*.PSD
Paintshop Pro images	*.PSP
Windows Enhanced Meta File	*.EMF; *.WMF



All file formats must not be encoded. Otherwise it is possible that they cannot be properly converted or imported.

3.7.2.1 Supported formats

The following contains detailed information about the supported file formats.

Please note: The import filters are native filters, which means they work without the original target application. Therefore variations in the display are possible in the PDF file, as well a loss of information compared to the original application.

JPEG (*.jpg; *.jpeg)

byte orders: little endian, big endian

sample sizes: 8 bits per sample

color spaces: grayscale, RGB

compression formats: baseline (standard), baseline optimized (progressive)

Portable network graphic images (*.png)

byte order: big endian

sample sizes: 1, 2, 4, 8, 16 bits per sample

color spaces: indexed, grayscale (alpha), RGB(A)

compression format: LZ77

specials: supported chunks: IHDR, IDAT, IEND, PLTE, gAMA, tRNS, bKGD

transparency support partially for RGB, which is stored as 32 bits format

TIFF images (*.tif; *.tiff)

byte orders: little endian, big endian

sample sizes: 1, 2, 4, 8, 16 bits per sample

color spaces: indexed, grayscale, RGB(A), CMYK, L*a*b*

compression formats: uncompressed, packed bits, LZW, CCITT T.4 (raw and modified fax group 3, possibly word aligned), ThunderScan, Deflate, new style JPEG

GFI fax images (*.fax)

sample size: 1 bit per sample

color space: indexed

compression format: CCITT T.4 (raw and modified fax group 3)

Truevision images (*.tga)

byte order: little endian

sample sizes: 5, 8 bits per sample

color spaces: gray scale, indexed, 15 bits RGB (555), 24 bits RGB(A)(888)

compression formats: uncompressed, RLE

ZSoft Paintbrush images (*.pcx)

byte order: little endian

sample sizes: 1, 2, 4, 8 bits per sample

color spaces: gray scale, indexed, RGB

compression formats: uncompressed, RLE

Kodak Photo-CD images (*.pcd)

byte order: little endian

samples size: 8 bits per sample

color space: YCbCr

compression: PCD Huffmann

specials: sizes: all resolutions, from 192 x 128 up to 6144 x 4096 (64 Base

vaporware)

rotated: clockwise and counter-clockwise

CompuServe images (*.gif)

byte order: little endian

sample sizes: 1, 4, 8 bits per sample

color spaces: indexed

compression format: LZW

special:interlaced, non-interlaced

Standard Windows bitmap images (*.bmp)

byte order: little endian

sample sizes: 1, 4, 8 bits per sample

color spaces: indexed, RGB(A)

compression formats: uncompressed, RLE

specials: OS/2 bitmap format

Photoshop images (*.psd, *.pdd)

byte order: big endian

sample sizes: 1, 8, 16 bits per sample

color spaces: indexed, RGB, CMYK, CIE L*a*b*

compression formats: uncompressed, packed bits

special: duo tone

Paintshop Pro images (*.psp)

byte order: little endian

sample sizes: 1, 4, 8 bits per sample

color spaces: indexed, gray scale, RGB

compression formats: uncompressed, LZ77

Windows Enhanced Meta File (*.emf; *.wmf)

Windows Metafile (WMF) and Enhanced Metafile (EMF) are the native file formats used by Microsoft Windows

device-independent graphic exchange format

16 bit and 32 bit versions

3.7.3 Converting file attachments

n2pdf Server Task uses the "webPDF Server" when converting file attachments. It has an interface for this converter and can use it to process a greater number of file formats "natively".

The use of the external converter is recommended if you want to process a large volume of attachments and have many different file formats. The external converter is especially preferable for obtaining a more exact conversion of the file formats. When using it, the quality of the result is practically identical to that of the original application.



The conversion via these filters is always a conversion of the complete attachment to the PDF and an "amend" to the end of the PDF file. The import of the content ([import mode](#)) is not possible via this filter.



Please note that a separate [license](#) is required in order to use the interface and in order to use webPDF server itself.

webPDF Server is a platform-independent, Java-and-server-based web service that converts over 100 file formats into the [PDF format](#). Thanks to the integration of OpenOffice.org, the different file formats will be converted into the PDF format without any installation or use of the original applications.

webPDF is implemented as an Apache Tomcat-based web service. This means that services are available (in the form of Java web services) to all users within your company. The clearly defined (API) interfaces and the J2EE architecture make it possible to use the service in your own applications. Thanks to the predefined interface the converter is integrated into the n2pdf Server Task. In addition, the web service can be used on any J2EE server (e.g., Sun J2EE Application Server, Apache Tomcat, etc.).

Using webPDF means that you will not need any additional third-party products in order to convert your documents. PDFs are converted "natively" for each PDF (at no charge, of course). webPDF is provided as an out-of-the-box solution (e.g., as a Windows service or Linux daemon).

Any application in your company that can communicate with a web service –

regardless of whether it is a standard application or a proprietary application– can access the converter and use its functionality.

Additional info can be found on the website: <http://www.webPDF.de>

3.7.3.1 Supported formats

n2pdf Server Task is able to process file attachments in the various file formats by means of various filters, i.e. the original application is then not required.

The table below shows the supported formats and the allowable operations.



Please note that these "Filters" do not possess 100 % of the performance capabilities of the initial application. Thus there may be variances in the display, in the import capabilities and/or the supported features of the file format in question. It is also possible that certain features of the original file format are not supported at all.

Format description	File extension	Import mode	Convert mode	Embed Mode*
		n2pdf	webPDF	n2pdf
Microsoft Word	*.DOC		X	X
Microsoft Excel	*.XLS		X	X
Microsoft RTF	*.RTF		X	X
Adobe PDF	*.PDF		X	X
ASCII	*.TXT		X	X
JPEG	*.JPG; *. JPEG	X	X	X
Portable network graphic images	*.PNG	X	X	X
TIFF images	*.TIF; *. TIFF	X	X	X
Truevision images	*.TGA	X	X	X
ZSoft Paintbrush images	*.PCX	X	X	X
CompuServe images	*.GIF	X	X	X

Standard Windows bitmap images	*.BMP	X	X	X
Photoshop images	*.PSD	X	X	X
Windows Enhanced Meta File	*.EMF; *. WMF	X	X	X
OpenDocument Text	*.odt		X	X
StarOffice 6.0/7 text document	*.sxw		X	X
Microsoft Word 97/2000/XP/6.0/95	*.doc		X	X
Rich Text Format	*.rtf		X	X
StarWriter 3.0 - 5.0	*.sdw		X	X
Text/ encoded Text	*.txt		X	X
HTML document (StarOffice Writer)	*.html; *. htm		X	X
Ami Pro 1.x-3.1	*.sam		X	X
AportisDoc (Palm)	*pdb		X	X
CTOS DEF	*.doc		X	X
Claris Works	*.cwk		X	X
DCA Revisable Form Text	*.doc		X	X
DCA with Display Write 5	*.doc		X	X
DCA/FFT-Final Form Text	*.doc		X	X
DEC DX	*.doc		X	X
DEC WPS-PLUS	*.doc		X	X
DataGeneral CEO Write	*.doc		X	X
DisplayWrite 2.0-5.x	*.doc		X	X
DocBook	*.xml		X	X
EBCDIC	*.doc		X	X
Enable	*.wpf		X	X
Frame Maker MIF 3.0/4.0/5.0	*.mit		X	X
Frame Work III/IV	*.fw3; *. fw4		X	X
HP AdvanceWrite Plus	*.hpp		X	X
ICL Office Power 6/7	*.doc		X	X

Interleaf/ Interleaf 5-6	*.doc		X	X
Legacy Winstar onGO	*.nvo		X	X
Lotus Manuscript	*.doc		X	X
MASS 11 Rel. 8.0-8.3/8.5-9.0	*.doc		X	X
Microsoft MacWord 3.0/4.0/5.x	*.doc		X	X
Microsoft WinWord 1.x/2.x/5	*.doc		X	X
Microsoft Word 2003 XML	*.xml		X	X
Microsoft Word 3.x-6.x	*.txt		X	X
Microsoft Works 2.0 DOS	*.wks		X	X
Microsoft Works 3.0 Win	*.wps		X	X
Microsoft Works 4.0 Mac	*.wks		X	X
Mac Write 4.x 5.0	*.doc		X	X
Mac Write II	*.doc		X	X
Mac Write Pro	*.doc		X	X
MultiMate 3.3/4/ Adv.3.6/Adv. II 3.7	*.doc		X	X
NAVY DIF	*.doc		X	X
OfficeWriter 4.0/5.0/6.x	*.wp		X	X
PFS First Choice 1.0/2.0/3.0	*.doc		X	X
PFS Write	*.doc		X	X
Peach Text	*.doc		X	X
Pocket Word	*psw		X	X
PFS Professional Write 1.0/2.x/Plus	*.doc		X	X
Q&A Write 1.0-4.0	*.gw		X	X
Rapid File 1.0/1.2	*.doc		X	X
Samna Word IV-IV Plus	*.sw4		X	X
StarWriter 1.0/2.0/DOS	*.sdw; *.txt		X	X
Total Word	*.doc		X	X
Uniplex V7-V8/ onGO	*.doc		X	X

VolksWriter 3 and 4/ Deluxe	*.doc		X	X
WITA	*.doc		X	X
Wang II SWP	*.doc		X	X
Win Write 3.x	*.wri		X	X
WiziWord 3.0	*.doc		X	X
WordPerfect Document	*.wpd		X	X
WordPerfect (Win) 5.1- 5.2/6.0 - 7.0	*.wpd		X	X
WordPerfect 4.1/4.2/5.0/5.1/6.0/6.1	*.wpd		X	X
WordPerfect Mac 1/2/3	*.wpd		X	X
WordStar (Win) 1.X-2.0	*.wsd		X	X
WordStar 2000 Rel. 3.0/3.5	*.ws		X	X
WordStar 3.3x/3.45/4.0/5.0/5.5/6 .0/7.0	*.wsd		X	X
WriteNow 3.0 (Macintosh)	*.doc		X	X
Writing Assistant	*.doc		X	X
XEROX XIF 5.0/6.0	*.xif		X	X
XyWrite (Win) 1.0/III/ III+/IV/Sig.	*.xyw		X	X
Ichitaro 8/9/10/11	*.jtd		X	X
Hangul WP 97	*.hwp		X	X
WPS 2000/Office 1.0	*.wps		X	X
OpenDocument spreadsheet document	*.ods		X	X
StarOffice 6.0/7 spreadsheet document	*.sxc		X	X
Data Interchange Format	*.dif		X	X
dBASE	*.dbf		X	X
Microsoft Excel 97/2000/XP/4.x - 5.0	*.xls		X	X
RichText Format (StarOffice Calc)	*.rtf		X	X

StarCalc 3.0-5.0/1.0	*.sdc		X	X
SYLK	*.slk		X	X
Text CSV	*.csv		X	X
HTML document (StarOffice Calc)	*.html; *. htm		X	X
Lotus 1-2-3	*.wk1; *. wks; *.123		X	X
Microsoft Excel 2003 XML	*.xml		X	X
Website query (StarOffice Calc)	*.html; *. htm		X	X
Pocket Excel	*.pxl		X	X
OpenDocument presentation	*.odp		X	X
StarOffice 6.0/7 presentation	*sxi		X	X
Microsoft PowerPoint 97/2000/XP	*ppt; *.pps		X	X
StarOffice 6.0/7 drawing	StarOffice Impress		X	X
3.0/5.0 (StarImpress)	*.sda; *. sdd		X	X
StarImpress 4.0 / 5.0	*.sdd; *. sdp		X	X
CGM - Computer Graphics Metafile	*.cgm		X	X
OpenDocument drawing (Impress)	*.odg		X	X
DXF - AutoCAD Interchange Format	*.dxf		X	X
EPS - Encapsulated PostScript	*.eps		X	X
MET - OS/2 Metafile	*.mel		X	X
PCT - Mac Pict	*.pct		X	X
SGF - StarWriter Graphics Format	*.sgf		X	X
SGV - StarDraw 2.0/3.0/5.0	*.sgv; *. sda; *.sdd		X	X

SVM - StarView Metafile	*.svm		X	X
PBM - Portable Bitmap	*.pbm		X	X
PGM - Portable Graymap	*.pgm		X	X
PPM - Portable Pixelmap	*.ppm		X	X
RAS - Sun Raster Image	*.ras		X	X
XBM - X Bitmap	*.xbm		X	X
XPM -X PixMap	*.xpm		X	X
Text (StarWriter/Web)	*.txt		X	X
Text Encoded (StarOffice Writer/Web)	*.txt		X	X
OpenDocument Global Document	*.odm		X	X
StarOffice 6.0/7 Global Document	*.sxd		X	X
StarWriter 4.0/5.0 Global Documents	*.sdl		X	X
OpenDocument Database	*.odb		X	X
OpenDocument Formula	*.odf		X	X
StarOffice 6.0/7 Formula	*.sxd		X	X
StarMath 2.0 - 5.0	*.smf		X	X
MathML 1.01	*.mml		X	X

* Embed mode support all file formats.



All file formats (such as PDF) must not be encoded. Otherwise it is possible that they cannot be properly converted or imported.

3.7.4 Compressed attachments

The n2pdf Server Task can also process compressed attachments when processing attachments. You don't need a separate program for this. A packed file is automatically detected and the files it contains are included in the conversion process. SFX (self extracting) attachments can also be processed for some archive formats.

The table below contains all supported archive formats.

- ARJ (*.arj), ARJ SFX
- CAB (*.cab)
- GZIP (*.gz)
- JAR (*.jar), JAR SFX
- LHA (*.lha), LHA SFX, LZH (*.lzh), LZH SFX
- RAR (*.rar), RAR SFX
- TAR (*.tar)
- ZIP (*.zip), ZIP SFX
- 7Z (*.7z), 7z SFX

4 Job Document

In this part of the Help file, the individual elements of a job for the n2pdf Server Task are described.

A Job Document is a normal Notes document which is created in a particular database (see "[Functional description](#)") and contains all necessary information for the Server Task. The information is stored in the Job Documents using fields with pre-defined names. Each of these fields begins with the prefix "\$N2PDF" and is therefore easily distinguished from other Notes fields.

The Job Documents are managed in the database "n2pdf Jobs". A Job Document of this kind can be created there using the relevant Notes form. You will find information below about the individual "tabs" of the Job Document, and the options that can be set.

- [Content](#)
- [Basics](#)
- [Data source](#)
- [Schedule](#)
- [Return](#)
- [Page setup](#)
- [PDF Settings](#)
- [Format settings](#)
- [Attachments](#)
- [Variables](#)
- [Administration](#)

4.1 Body

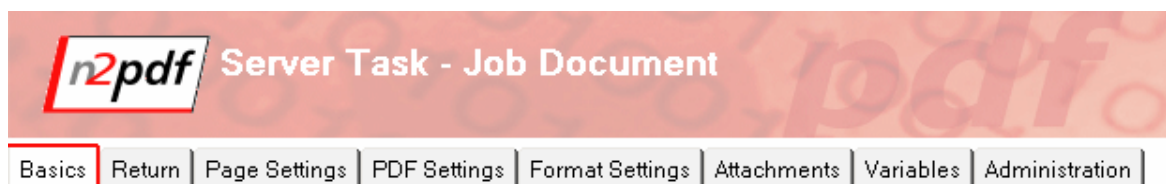
The "Body" field of the Job Document holds the content that should be converted into the PDF file. The settings in the "[Basics](#)" tab (see "Conversion mode") determine whether this content is converted alone or together with other documents into the PDF file. If it is specified there that only the Job Document is converted, then the field represents the only content for the PDF file. If conversion from another database is specified in the "Basics" tab (see "[Data source](#)"), the use of the content depends on further options.

The "Body" field can hold RichText, unformatted text, [constants](#) or [attachments](#) ([supported formats](#)).



The presentation and position of the contents can be controlled using options, which are explained on the subsequent pages.

4.2 Basics



Basics

Description:

Freely selectable description of the new Job Document to be created.

Conversion mode:

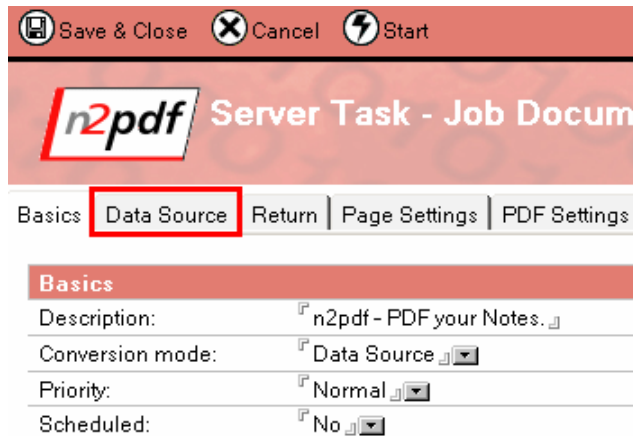
The n2pdf Server Task distinguishes two different conversion forms:

- Job Document

With this setting, the field "[Body](#)" is converted into a PDF file with all selected settings. This is the simplest way to create a PDF file quickly and easily. All you have to do is to put the text to be converted (or the [attachments](#)) into the Body field, and the conversion starts.

- Data source

With this setting you can specify a database from which the content for the PDF file is taken. After the selection "Data source", a further tab "[Data source](#)" appears in the Job Document. There you can select the database and the documents which should form the basis of the PDF content.



The screenshot shows the 'n2pdf Server Task - Job Document' dialog box with the 'Data Source' tab selected. The 'Basics' section contains the following settings:

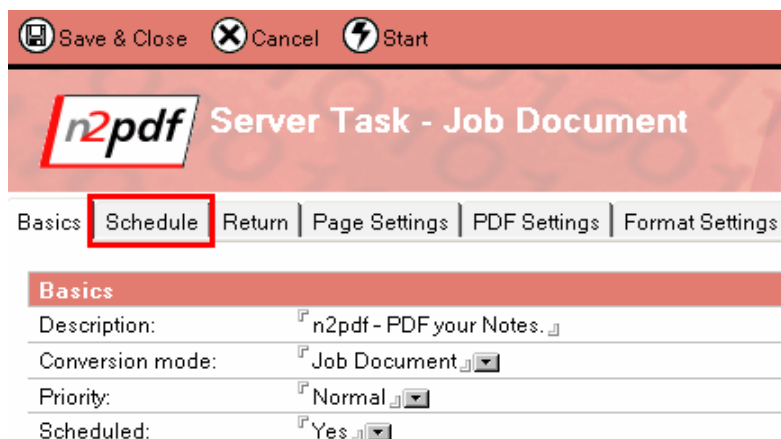
Basics	
Description:	<input type="text" value="n2pdf - PDF your Notes."/>
Conversion mode:	<input type="text" value="Data Source"/>
Priority:	<input type="text" value="Normal"/>
Scheduled:	<input type="text" value="No"/>

Priority:

The n2pdf Server Task distinguishes between five different priorities for processing the jobs in the "n2pdf InBox". If you want the job being created to be given preference in processing, choose a higher priority here. Default: Normal

Schedule activated:

If you set this option to "Yes", you are able to schedule the job. A further tab, "[Schedule](#)", appears. You can make detailed settings for the schedule in this tab.



The screenshot shows the 'n2pdf Server Task - Job Document' dialog box with the 'Schedule' tab selected. The 'Basics' section contains the following settings:

Basics	
Description:	<input type="text" value="n2pdf - PDF your Notes."/>
Conversion mode:	<input type="text" value="Job Document"/>
Priority:	<input type="text" value="Normal"/>
Scheduled:	<input type="text" value="Yes"/>

PDF File Name

Single PDF file:

Set this option to yes if you want to receive just one PDF file for all content to be converted. If you set this option to "No" and you convert a series of Notes documents (see Conversion mode above), then you receive an individual PDF file for each document.

Filename mode:

You can influence the format of the filename for the PDF files with the settings below.

The following options are available:

- Random unique number

Creates a unique random filename

- Static file name with number

Creates a filename from a freely selectable static value and the placeholder for consecutive numbering

Example: n2pdf[%d].pdf

- Document universal ID

Creates the filename from the universal document ID (UNID) of the document to be converted

Job Storage

Storage mode:

With this setting you decide whether the job should be stored in a separate view of the "n2pdf InBox" after the PDF file is created. Deactivate storage of the job with "Delete job".



Jobs executed with errors are always stored, regardless of the chosen settings.

Job settings

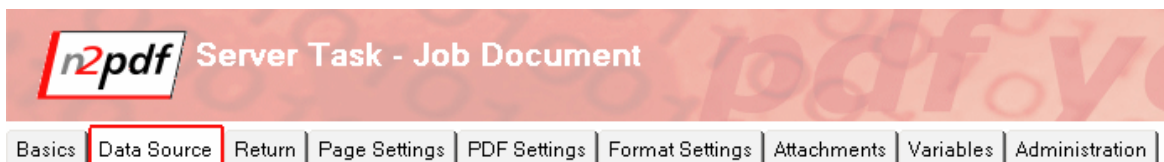
The settings in this area are only meaningful if the option "Job Document" was chosen for the conversion mode.

Use form for conversion:

If the option is set to "Yes", you can choose a Notes form name (second field in this area), which should be laid over the content of the "Body" field for the conversion. This enables you to define a layout for the created PDF file, for example. If the value is set to "No", only the content of the "Body" field is converted.

The two forms "Memo" and "\$n2pdf" are defined in the selection field. You can find these forms in the "n2pdf Inbox". There you can adapt the masks to meet your own requirements.

4.3 Data source



The following options are only available after selection of "Data source" for the "Conversion mode" entry in the "[Basics](#)" tab.

Basics

In the "Basics" section, you must use "Select database" to select the database and view which contains the documents that are to be the basis of your conversion. The number of documents can be further restricted with the search filters (see below).

As additional information, the ReplicID of the chosen database is stored.

You can optionally restrict below whether the entire content of the documents is always taken, or only individual fields. If the entry remains blank, the complete documents are converted. Multiple fields are separated from each other by ";".

Select Database	CN=LUNA/O=SVD
File name:	n2pdf_ServerTask.nsf
Replica ID:	C1257323:004517CA
View	Flowers
Field name(s): (empty = document)	『 』


Database options

In this section you can use the option "Use ReplicID for opening the database" to specify whether the n2pdf Server Task should search for a replica of the database if the original database is not available.

The following option determines whether the Server Task should search for a replica of the database in the failover cluster, if the primary server cannot be addressed.

Content options


The following options of the "Content options" section have a direct influence on the appearance of the PDF file.

If single file, page break Yes 
between each document:

With this option you decide whether a page break should be inserted between each new document. For this to work, the option "Single PDF file" must be activated in the "[Basics](#)" tab.

Use document content: Yes 

If you deactivate this option, only the file attachments of the documents are converted. In the "[Attachments](#)" tab you can decide which file attachments (e.g. from which fields) are taken.

Use job content: Don't use content 

In addition to the contents of the selected documents (whole document or individual fields), you can add the contents of the "[Body](#)" field in the Job Document to the PDF file. There are three options for the positioning of the content:

Don't use content	No processing
At the beginning	The content is placed at the beginning of the PDF file (e.g. as cover page)
At the end	The content is placed at the end of the PDF file

Repeat job content for each document:

This option subdivides an activated "Use job content" option. You can decide whether the content is placed before each new document (e.g. as a "header" in front of a document) or if it only appears once (e.g. for a cover page).

Search filter

You can use the search filter to restrict the number of documents used. The search filter offers four different options:

None	No filtering of the documents in the selected view, i.e. all documents are taken
Documents	If this filter type is selected, you have the option to selectively choose individual documents manually. Only the chosen documents are converted.
View	With this filter you can define a filter for the first three columns of the view. Enter the values by which the view should be filtered (e.g. "Auto" or "1450"). Please note that the columns of the view must be sorted, and make sure you select the correct data types.
FullText	Only the documents that yielded a match in the "full-text search query" are selected and converted. With a further option you can also differentiate whether the search relates to the complete database or only to the current view.

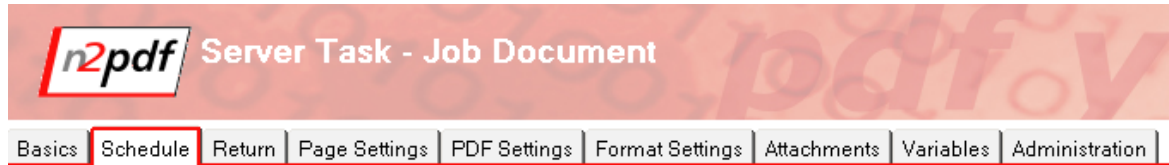
Data modification

All documents that are included in the PDF creation (and possibly were reduced by the search filter) can be changed using a Notes formula (macro language). You can differentiate between two different formulas, one for successful PDF creation and one for errors. With these formulas, individual fields in a document can be set or deleted, for example.

Formula to be executed on success:	Enter a formula to be executed when the PDF file was successfully created.
Formula to be executed on failure:	Enter here a formula to be executed when the PDF file was

not successfully created.

4.4 Schedule



All the following options are only available after activating the "Schedule" entry in the "[Basics](#)" tab.

Basics

Use the "Scheduler type" button to choose the type of schedule. The n2pdf Server Task distinguishes between two types of schedule:

- **Interval**
The job is executed periodically on the specified days and in the defined periods.
- **Once a day**
The job is executed once daily on the specified days and at the defined time.

Other settings are available, depending on the selected action.

Execution on the following days

Choose the days on which the schedule is active.

Daily start time and end time of the execution

Enter in the two fields the period (time) when the job is active and should be executed. If the "Schedule type" is set to "Once daily", you can only set the start time of the execution.

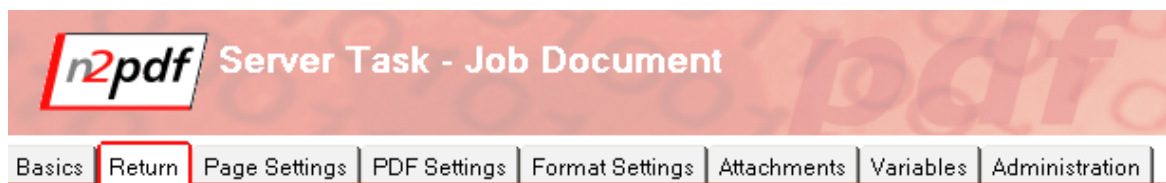
Interval

The option "Interval in seconds" allows you to specify the time intervals at which the action should be executed recurrently within the chosen time window (for "Schedule type" "Interval").



In contrast to the agents in Lotus Notes, shorter intervals can be set in the Server Task, since it does not start the Notes agents in the backend, but uses its own software to execute time-controlled actions.

4.5 Return



In the "Return" tab, you specify how and in what form the created PDF file should be returned.

Basics

"Return mode" distinguishes between

- E-mail and
Return of the PDF file as an attachment in an email. Further settings are possible for the contents and form of the E-mail.
- File system
Storage of the PDF file on the file system in a defined directory


Depending on the chosen mode, different settings are made available:

Return "E-mail"

Under the option "Used address", you can choose between the address of the user who ordered the conversion (option "Sender address") and a static address (option "Static address"), to which the converted PDF file should always be sent.

E-Mail

This section is only available if "E-mail" was selected for return mode.

Reply address	Use the Notes standard dialog to select the user to whom a response to the E-mail should be sent.
Subject	Enter the subject text here.  You can define placeholders that are replaced when the E-mail is sent. See Variables for details.
Display mode for file	Here you can choose the display format for the file attachment in the E-mail. You can choose between display as an icon (option "Symbol") or as a clickable text link (option "Text link").
Body	Enter the contents text ("body") of the E-mail here. This text appears before the attachment in the E-mail.

Return "File system"

If this option is set, the created PDF file is stored in the file system. You have the following options for selecting the directory:

- Temporary directory

By default the directory defined in the computer's "Temp" environment variables is used as temporary directory.

- Static directory

With this setting, you can choose a directory with the dialog "Directory to store files" or enter one directly.



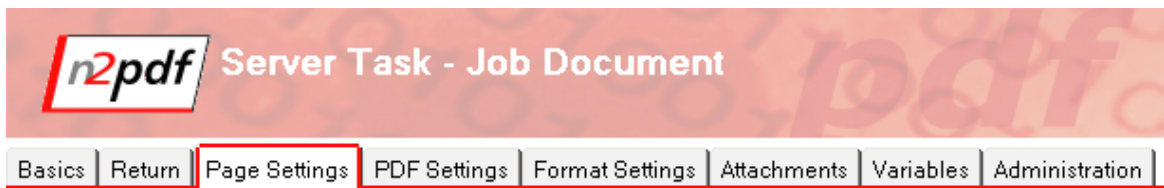
When entering a static directory, you can use the UNC form ([Uniform Naming Convention](#)). In this way it is possible to store the file in the shared folder of a remote computer, for example.



Please ensure that the user has appropriate rights to this directory.

In the "File system" return mode, you have the option to store the created PDF file with the "read-only" flag.

4.6 Page Settings



Basics

In the "Paper format" option, you decide whether you want to create a PDF file based on a standard paper format or a user-defined paper format.

The "Paper orientation" option sets the orientation of the page. Portrait or landscape format can be selected.

"Paper metrics" lets you select the units to be used for interpreting data such as the page size or margins.

Size

Depending on the paper format selected under "Basics", you can define the paper size with this option.

With the standard paper formats you can choose from the following formats:

- A3
- A4
- A5
- A6
- LETTER
- LEGAL
- EXECUTIVE

A user-defined format allows you to set the paper size to your own wishes by entering the values directly.

Header and Footer

The n2pdf Server Task supports the creation of headers and footers for the PDF file. A header or footer can consist of plain text or RichText contents. If "Use header" or "Use footer" is activated, the respective RichText fields appear in the lower area of the Job Document.

You can then position their content.

Header

n2pdf Tutorial
Page [ActPg] of [SumPg]

Body

Footer

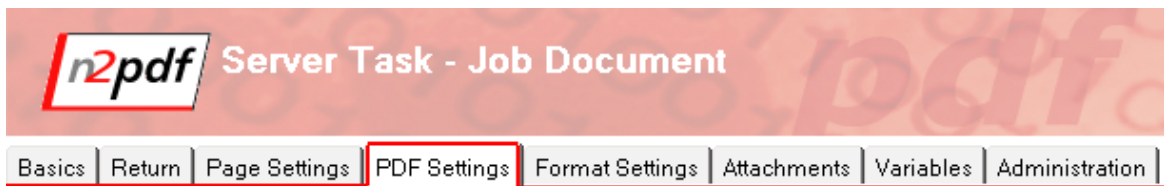
(C) [YEARL] SoftVision Development GmbH, Fulda, Germany
[DATEL] [TIMEL]

Margins

In this section you can set the page margins.

Top	Margin of the main text relative to the top of the page
Bottom	Margin of the main text relative to the bottom of the page
Left	Left margin of the page
Right	Right margin of the page
Header	Margin of the header to the top of the page
Footer	Margin of the footer to the bottom of the page

4.7 PDF Settings




There are a whole range of settings for the PDF format itself in addition to those for the PDF file's content (e.g. contents, header, footer). The n2pdf Server Task supports a number of these settings, such as the security functions, PDF file descriptions and font embedding.

All these settings can be specified in the "PDF Settings" tab. Below is a short description of the possible settings.

Basics

Compression	This option lets you activate/deactivate compression of the PDF file.	
Font mode	This selection determines in what form the font types are integrated into the PDF file.	
	Use TrueType fonts (no embedding)	Use TrueType fonts, but do not embed the font.
	Embed 14Base Type 1 fonts	Do not use TrueType fonts. When this mode is activated you can only use the following fonts: Arial, Courier New and Times New Roman.
	Full True Type embedding	Embed used TrueType fonts.
	Embed symbol and use True Type fonts	Embed only the symbol TrueType fonts (WingDings etc.).
	Embed used characters	Embeds only parts of the fonts. Only characters which are actually used are embedded.
	Embed chars used by codepage	Embeds only parts of the fonts. Only the characters which are used according to

	the current code page are embedded. Keep in mind that the embedding is based on the code page on which the PDF file is created.
JPEG quality level	With this option you can set the ratio of JPEG quality and level of compression.
Convert links	This selection decides whether hyperlinks in the PDF are clickable or not.
Convert E-mail links	This selection decides whether E-mail links in the PDF are clickable or not.
Convert jump links	This selection decides whether "jump links" in the PDF are clickable or not.  You can find a precise description of the function in the n2pdf Help, in the section "User-defined links".
Convert file links	This selection decides whether links to files in the PDF are clickable or not.
Convert hotspot links	Use this selection to control whether elements that are defined in Notes as "hotspots" are included in the PDF file as clickable links.
Create outline	This option lets you specify whether the outline should be created in the PDF file.
Create thumbnails	You can use this option to force the creation of thumbnails, meaning that you do not have to rely on the relevant "PDF reader" to create them itself.

Display mode

In the "Display mode" you specify the mode and the zoom range in which the PDF reader is opened.

Page mode

None	The last reader settings are used.
Full screen	Reader is launched in full screen mode.
Thumbnails	Reader is launched with opened thumbnails.
Outline	Reader is launched with opened outline.

Zoom mode

None	The last reader settings are used.
Fit horizontal	The page is visible horizontally in its entirety.
Fit vertical	The page is visible vertically in its entirety.
Fit page	The page is visible in its entirety.

File info

You can fill the info area of the PDF file using the following options. Enter the content that should appear there.

Job Document

Title:	☞ n2pdf - PDF your Notes. ☐
Subject:	☞ Server based PDF creation with n2pdf server task ☐
Author:	☞ SoftVision Development GmbH, Fulda, Germany ☐
Keywords:	☞ n2pdf, PDF, server ☐
Producer:	☞ n2pdf Server Task ☐

PDF file

Document Properties

Description Security Fonts Initial View Custom Advanced

Description

File: ~7685963.PDF

Title: n2pdf - PDF your Notes.

Author: "SoftVision Development GmbH, Fulda, Deutschland"

Subject: Server-basierte PDF-Erstellung mit dem n2pdf Server Task

Keywords: n2pdf, PDF, Server

Created: 17.08.2007 09:13:09

Modified: 17.08.2007 09:13:09

Application: n2pdf Server Task

Security



A random password is generated if you activate an encryption mode and do not set an owner password. If this happens you will be unable to edit the file later, since you will not know what the password is. If you want to make sure that you can edit the file later, you must set an owner password.

Below are all possible security settings which are used by the PDF format and which you can set in the n2pdf Server Task.



These settings are only effective when encryption is activated at the same time.



A few settings are dependent on other security settings, and can only be used together. You can find the interaction of the individual security options in the [Acrobat SDK](#). In Version 8 of the SDK, the description is in the document "pdf_reference.pdf" in Chapter "3.5.2 - Standard Security Handler". "TABLE 3.20 User access permission" should be noted especially.

Encryption

Encryption settings for the PDF file are set using this option.

None	Do not use encryption
40BIT	Use 40 bit encryption
128BIT	Use 128 bit encryption

Owner password

This option sets the owner password, which protects access to the PDF file for editing and enables the file to be encrypted.

User password

This option sets the user password, which is queried for a read access to the PDF file.

Security settings

Printing	Allow or prohibit printing of the PDF file
Changing the document	Allow or prohibit making changes to the PDF file
Document assembly	Compilation of content
Content copying	Allow or prohibit the copying or extraction of content from the PDF file
Content copying for accessibility	Output help for the content
Commenting	Allow or prohibit the editing of form fields and comments
Filling of form fields	Filling in and signing of form fields

PDF/A

PDF/A is an ISO-standardized version of the "Portable Document Format" (PDF). PDF/A (A = Archiving) is a subset of the PDF options, specifically for the requirements of long-term archiving and accessibility, and also for reproduction on mobile devices such as PDAs. This standard is a subset of PDF 1.4 and is specified under ISO 19005-1:2005.

To create a PDF file which meets the requirements of PDF/A, the option "PDF/A activated" must simply be set to Yes.



Please note that the activation of the PDF/A conformity causes some settings to be automatically deactivated. This relates e.g. to the font mode or encryption of the file. It can also cause e.g. a marked change to the size of the PDF file.

A further option is the "Language code" according to [ISO 639-1](#), which uniquely identifies the language used. This consists of two characters, e.g. "fr" for France or "de" for Germany.

Watermark

Watermark mode

Use this option to control the embedding of a graphic, which is in the background of the PDF file as a watermark. You can choose between the Image Resource and the External File name.

In the next option, choose the graphic to be placed in the background of the PDF file.



Please note that if a filename is given, the file must be within access for the Server Task. If you specify an image resource, this must be present in the "n2pdf Inbox" ("watermark.jpg" is stored there as standard).

In the next option you can specify the position on the page where you want the watermark to appear. The following positions may be chosen:

Top-left

Top left corner

Top-center

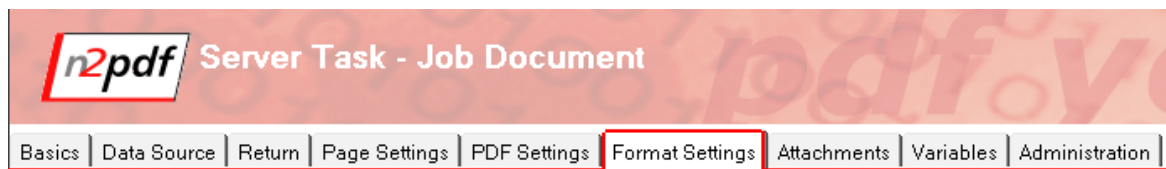
Centered on top edge

Top-right	Top right corner
Left-center	Centered on left edge
Right-center	Centered on right edge
Bottom-left	Bottom left corner
Bottom-center	Centered on bottom edge
Bottom-right	Bottom right corner
Center	In the center of the page



Only graphics in JPEG format are supported for use as watermarks at the present time!

4.8 Format Settings




General properties for text elements can be set in the "Format Settings" tab. This allows the control of text breaks in tables or paragraphs, for example. The settings are separated into those for paragraph configuration (Paragraphs) and those for table configuration (Tables).

Paragraphs

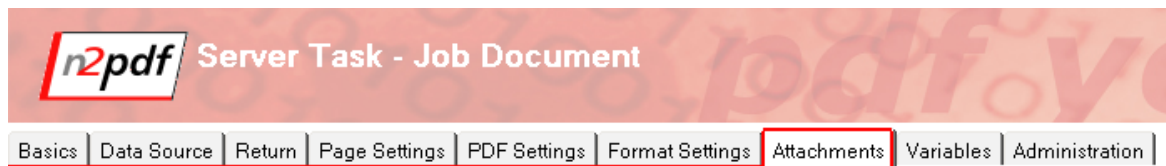
Ignore "Keep paragraph on one page"	This option allows you to specify whether the "keep paragraph on one page" setting is to be ignored or whether this text property is to be taken into account for the text formatting.
Ignore "Keep paragraph with next paragraph"	This option allows you to specify whether the "keep paragraph with next paragraph" setting is to be ignored or whether this text property is to be taken into account for the text formatting.
Avoid "Widows"	This option allows you to specify that a paragraph is to be pushed to a new page if only a single line of the paragraph will fit on the current page.

Avoid "Orphans"	This option allows you to specify that an entire paragraph is to be pushed to a new page if only a single line of the paragraph would be displayed on a new page.
Delete trailing space at the end of the document	This option allows you to avoid unwanted page breaks or empty pages at the end of a document. If this option is activated, there is a check for an unnecessary page or line break on the last page of a document. If an empty last page is thereby created, n2pdf deletes that unwanted empty page.

Tables

Don't break tables	This option allows you to say whether tables may be broken by page breaks, or if tables should always be displayed completely on a page (provided a page is large enough to display a table).
Don't break table rows	This option allows you to say whether table rows may be broken by page breaks, or if table rows should always be displayed completely on a page (provided a page is large enough to display a table row).
Remove table offset when using fields inside a table	<p>If a RichText field to be converted is in a table, the table offset is added to the offset of the RichText field in the export. This may have an unwanted effect on the output. The table offset is removed if this option is activated.</p> <p> This function will only work if a single rich text field is being exported. During the export of an entire Notes document, this option has no effect.</p>
Expand last column to page width	<p>This option allows you to decide whether tables are to be displayed in the width they were defined in, or if the Server Task should adapt the table width to the actual width of the page.</p> <p>If Notes contains a table with "fixed width", then it is possible that the sum of the width of all columns may be larger than the actual page width in the PDF. In this case, the table would be wider than the page. If you activate this option, the n2pdf Server Task will scale the table to fit the page. This may change the optical layout of the created PDF document.</p>

4.9 Attachments



n2pdf is capable of working with complete Notes documents, individual fields, unformatted ASCII texts and with file attachments.

Basics

Process attachments

There are four different ways n2pdf can handle existing file attachments:

- no handling of attachments (option "None")
- the attachment is embedded in the PDF (option "Embed")
- the content of the attachment is converted (as PDF) and appended to the end (option "Convert")
- the attachment is inserted as content into the PDF (option "import")

No import filter or converter is needed to "[embed](#)" a file attachment. This can be done with any file format.

For the direct [import](#) option, an import filter is necessary. The n2pdf Server Task has integrated import filters for attachment handling.

For the [conversion](#) of file attachments, the n2pdf Server Task uses the webPDF Server - PDF Converter.



An additional license is needed for the use of the webPDF Server - PDF Converter.

Field names to take attachments from

The following option allows you to specify one or more fields (separated by ";"), from which the attachments may be taken. No entry in this field means that all attachments in the documents to be converted are used.

Hide attachment icons

This option defines whether the icons for Notes file attachments should be visible or hidden. Notes saves a small graphic in the associated RichText field for every attachment in the document. The n2pdf Server Task can also export this graphic. This parameter turns off the export of these graphics.

Wrap mode between attachments

This gives you a control option for the output of the file attachments being converted.

You can choose:

- No line wrap
- Page break before
- Page break after
- Line break before
- Line break after

Abort job, if unknown file format was found

In the following option the Server Task allows you to stop the job, if the an unknown data format was found during the attachment processing.

If importing or embedding attachments, try to import at original position

With the final option in the "Basics" section, you can say whether n2pdf should try to display the file attachments at the same position as in the original document. When the option is deactivated, n2pdf will output the file at the end of the document.

Images

With the following options you can influence the display of graphics.



The options are only applied to graphics which were added to the PDF file as content, i.e. were added as visible.

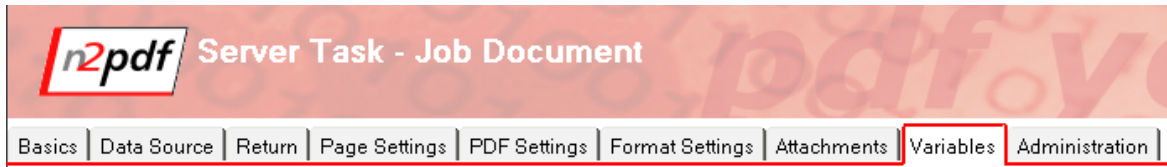
Resize images

- Keep original image size.
- Fit image into page size.
- Fit image and keep aspect ratio.

Image size

The next two options can be used to define the maximum height and width of your images. If you leave the value blank, no adjustments are made.

4.10 Variables



Besides the basic principle of the n2pdf Server Task (the assembly of the PDF file from Notes documents or RichText fields), it is also possible to define the contents of Notes fields (which are not RichText fields) as variables, and integrate these into the content of the PDF file. You can use such a variable in the "[Body](#)" field or in the headers and footers (see "[Page Settings](#)") of the Job Document. A variable always has the name of the Notes field and is enclosed in square brackets (e.g.: [Server]).

The options for the variables are described below, with an example for the definition of a variable:

Basics

The option "Use variables" activates the function of variable generation and replacement.

In the following option "Notes field names", enter the names of the Notes fields that you want provided as variables. If you need multiple variables, separate them with a semicolon (;). The field names entered here are at the same time the names of the variables (enclosed in square brackets) that you can position in the content or in the header and footer.

E-mail addresses

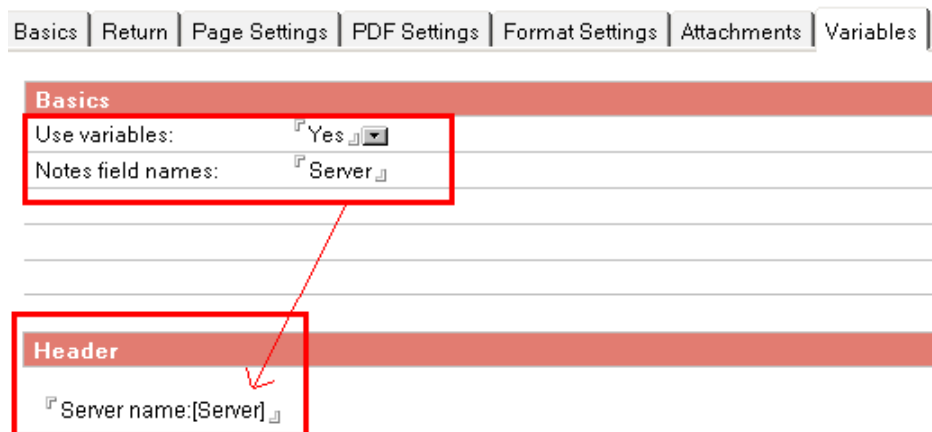
The fields which contain Notes names represent a special feature in the Notes fields. These fields can also be used as variables. You have a few more options here for formatting the content.

Notes field names	Field names that contain Notes names and are to be made available as variables.
Abbreviate user name	All names are output in short form, i.e. elements such as "CN=" or "/O=" are removed.

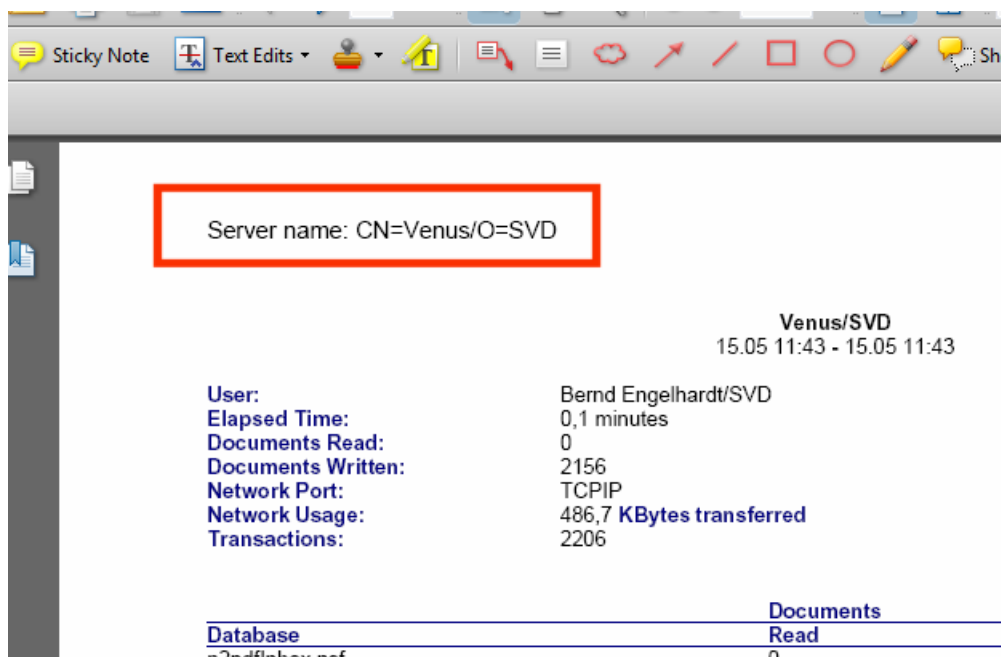
Expand group names	If a group name is present in a field, the group is expanded into the individual Notes names (from the address book).
New line for each entry	If there are several names in a field, the names are divided by a line break in the output.

Example of the definition of a variable with the [sample database](#)

In the "[Data source](#)" tab, the sample database was set with the view "Log". In the "Variables" tab, set "Use variables" to "Yes". The definition of variables is then activated. In the field "Notes field names", enter the name of the Notes field "Server". Each document in the log file documents has a field named "Server". As a result of the entry in the Job Document, the content of the field is supplied as a variable. You can then use this variable e.g. in the header of the document.



If you now create the PDF file, the name of the server will appear in the header on each page of the PDF document.



4.11 Administration



Basic settings for the Job Document are made in the "Administration" tab.

Basics

"Document author" defines the possible editor of the Job Document. Under "Standard E-mail address", an address is entered which is always used when no E-mail address is specified for the Server Task for the conversion. You should enter an address here which is generally valid.

Error handling

The option "Send E-mail on error" lets you decide whether a status report should be sent to the E-mail address stored in the following option in the event of an error.

5 Appendix

In the appendix to this document you can find additional information on

- [Errors](#)
- [List of Files](#)
- [Demo data](#)

5.1 Errors

If errors occur in the conversion of Job Documents, they appear as messages on the server console and are also written to the server's "Log.nsf". The cause of these displayed errors is often an incomplete or erroneous definition of the Job Document. Frequent reasons are e.g. the lack of selection of a database or the documents, and

errors in the definition of formulas or of the search filter. Always begin by checking your Job Document for completeness and errors in the definition.

When an error message appears, you always find an error number with the message. This error number helps our [support](#) to find the cause of the error more quickly. If you cannot resolve the error, please make a note of the error number and contact our support.

5.2 List of Files

A manual installation requires that the different files be copied into specific directories. The following listing shows which file belongs in which directory.

Legend:

xx = Language number

NOTES = Notes Client or Domino Server directory (where NNOTES.DLL is located)

DATA = Notes data directory (where all databases (*.NSF) are located)

n2pdf Server Task

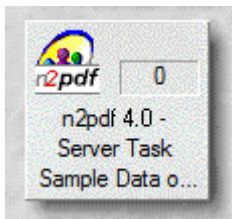
File name	Dir.	Description
NN2PDF.EXE	NOTES	Main application / Server Task
N2PDF.DLL	NOTES	PDF engine for Server Task
N2PDFARC.DLL	NOTES	Functions to edit compressed attachments
NN2PDF.INI	NOTES	Configuration file
N2PDFSTxx.CHM	NOTES	Help file in the appropriate language: 07 = German 09 = English
NSFEXPRTF.DLL	NOTES	Functions for the RTF export
NSFEXPIMGRES.DLL	NOTES	Functions for the export of image resources
7z.DLL	NOTES	Functions for the archive export feature
libjpeg-7.DLL	NOTES	Functions for the JPEG export feature
libtiff-3.DLL	NOTES	Functions for the TIFF export feature
zlib1.dll	NOTES	Functions for the TIFF export feature

Support Tools

File name	Dir.	Description
SVDSINFO.EXE	NOTES	Program for our support
N2PDFREG.EXE	NOTES	Program which allows registration keys to be entered
N2PDFREG.INI	NOTES	Settings for N2PDFREG.EXE
N2PDFREG.LNG	NOTES	Language information for N2PDFREG.EXE

5.3 Demo data

In order to show various options and usage scenarios for the n2pdf Server Task, a sample database is installed with demo data. This database does not represent any complete applications, nor is it part of the actual product. It is stored in the data directory of the client or server, with the filename "n2pdf_ServerTask.nsf".



The database is only present if the examples were selected as an option during installation.

The data of this database is used in the sample Job Documents of the n2pdf Server Task database "n2pdf - Jobs". This database (n2pdfJobs.nsf) holds a range of sample documents after the installation.

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