

# PDF printer plugin documentation (TobitProXL)

Version 3.1 - 02. december 2009



Thank your for evaluating our PDF mailing/printing plugin.

## Where to get the plugin:

<http://www.node.de/indexplug.htm>

## System requirements:

4D Engine/Mono/Server/Client 6.8.6/2003.8/2004.8/v11.5  
Windows 32bit and 64bit Systems only (Win2K/WinXP/Win3K/Vista/Win7/Win2008)  
Sorry no Mac OS or OSX

## Price Information for version 3.1:

### Full versions:

<b>4D Plugin light</b>	<b>€ 369,-</b>	only the 4D plugin (requires additional pdf printer licenses for each PC). PDF-XChange (Standard) v3 or v4 <a href="http://www.docu-track.com/buy/users/">http://www.docu-track.com/buy/users/</a>
Ideal for in-house developers which doesn't need pdf features for client distribution		
<b>4D Plugin pro + PDF Printer</b>	<b>€ 948,-</b>	4D plugin with Royalty Free pdf printer driver license. (there are no extra license costs for each site or client) The PDF X-Change printer driver works only called from the 4D Plugin, <b>otherwise it works in demo mode</b> . Distribution to your clients only inside <b>compiled</b> enduser applications.
Ideal for commercial developers which needs a cheap pdf solution for unlimited client sites. This version comes with Royalty free pdf printer driver for client distribution.		

### Upgrade versions:

<b>2.x light -&gt; 3.x light</b>	<b>€ 189,-</b>	License Upgrade from 4D Plugin light version 2.x to 4D Plugin light version 3.x.
<b>2.x light -&gt; 3.x pro</b>	<b>€ 689,-</b>	License Upgrade from 4D Plugin light version 2.x to 4D Plugin light version 3.x.
<b>2.x pro -&gt; 3.x pro</b>	<b>€ 429,-</b>	License Upgrade from 4D Plugin pro version 2.x to 4D Plugin pro version 3.x.

**European Buyers, adds the VAT** (no VAT for international buyers)

## What will you get:

- 4D Plugin (win only with mac4dx stubs)
- 4D sample databases (**6.8.6, 2003.8, 2004.8, v11.5 SQL**)
- Serial to unlock the plugin
- PDF X-Change 4 printer driver with silent install, to integrate within your installer (this is a commercial best selling, rock solid pdf printer driver, more information's <http://www.docu-track.com>) The distribution of the PDF-XChange 4.0 printer driver is Royalty Free within your compiled enduser application. For compatibility with our previous plugin version, the plugin also works with the PDF-XChange 3 driver. (**The light version of the plugin does not include the pdf printer license**)
- the PDF X-Change 4.0 printer driver works only called from the 4D Plugin, otherwise it works in demo mode. (If you buy the light version, the pdf driver always works in

**EXPOSE**  
Wohn/Gewerbe

**EXPOSE** commercial  
Gewerbe  
Einzelhandel  
Wohn/Investment

Kantstr. 149  
10623 Berlin

Tel: 030 / 893 643-0  
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Internet:  
<http://www.node.de>

E-Mail:  
[Info@node.de](mailto:Info@node.de)

HypoVereinsbank  
BLZ 100 208 90  
Kto. 262 82 44

Inhaber:  
Armin Deeg

Sitz Berlin  
Registergericht:  
Berlin-Charlottenburg  
HRA 39570 B

demo mode until you have unlocked the driver with a separately purchased serial from docu-track, then the driver suppresses the demo stamps)

### Short feature list:

- switching between printer/pdf driver
- collecting several print jobs and converting it into one pdf file (sets the pdf printer in idle mode to combine several print jobs and external documents into one pdf file, mixed print of 4D Draw, 4D Write, SuperReport, PrintList, 4D Chart, 4D Report, and more ... is supported)
- ability to choose from different letter form pages for watermark background (first and following pages). Background files could be pictures or pdf files.
- set some pdf options (password, print, copy, change, annotations, title, owner, etc.)
- print pdf to smtp email with optional full styled html email text including pictures (the print job spooled into a temporarily pdf file and send the pdf to your smtp server without any user interaction, no 4d internet commands necessarily)
- print to MAPI email (the print job spooled into a pdf file and opens the standard MAPI mail client)
- print pdf to MS outlook email with optional full styled html email text including pictures (the print job spooled into a temporarily pdf file and send the pdf into your MS outlook mail client without any user interaction). (Options are send direct, save in drafts, save in drafts and show the mail in MS outlook Editor)
- send HTML e-mail with HTML styled body to your smtp server [**FREWARE**]
- send HTML e-mail with HTML styled body into your MS outlook [**FREWARE**]
- download a web page to a txt file [**FREWARE**]
- zip files from a source array [**FREWARE**]
- set bookmarks during your pdf print jobs
- modify bookmarks within existing pdfs
- merge pdf files manually as an option
- convert external files to pdf
- delete pages from pdf files
- get some information about a pdf file (page count, protected, bookmarks, creator, keywords ...)
- optional individual mail coding for e-mail (default is iso-8859-1)
- optional individual mail port for smtp e-mail sending (default is 25)
- just print what you want and get fantastic pdf results

### Limitations for demo version:

- without a valid serial the plugin works only for 10 minutes

### Version 3.1: What's new since 3.0 release:

- updated demo database
- updated nodexchange.dll
- updated plugin, updated pdf driver
- new command **TobitProXL\_Zip** zip files from a source array
- changed command **TobitProXL\_MsgBody** (now accepts a blob variable for the mail body)
- modified virtual printer handling (now reuses the virtual printer until application quits for better compatibility with 4d 2004.8 and v11.5 SQL)
- new pdf printer driver v4.0 build 171 (fixes some bugs) Update recommended
- resolves a acrobat pdf flattening bug if there are a lot of line objects inside the pdf
- sample how to create a pdf if **4d server runs as service** (compile the sample, check publish WEB-Server at startup, start the service and enter http://127.0.0.1 inside your browser)

### Version 3.0: What's new since 2.4 release:

- updated demo database
- new serial required
- updated node\_outlook.dll for better compatibility with different MS outlook Versions
- updated nodexchange.dll
- bundle plugin for 4D 2004 and 4D v11 SQL
- support for windows **32bit** and **64bit** systems
- support for windows terminal server systems
- support for **PDF-XChange 3** and **PDF-XChange 4**
- new command **TobitProXL\_MailCoding** (change the e-mail coding)

- new command **TobitProXL\_MailPort** (change the smtp Port)
- changed command **TobitProXL\_PdfStart** (returns the current pdf driver and pdf driver version)
- modified "printer change broadcast" which could cause a plugin freeze
- smaller PDF files regarding to the 2.4 version
- sample database for 4D v11 SQL
- many internal optimizations

#### Version 2.4: What's new since 2.3 release:

- updated demo database
- updated node\_outlook.dll for better compatibility with different MS outlook Versions
- updated nodexchange.dll
- new command **TobitProXL\_AddPDF** (adds an existing pdf into a current pdf creation process)
- changed commands **TobitProXL\_Email**, **TobitProXL\_SimpleMail**, **TobitProXL\_SendSmtp** (supports bcc recipients) and optional shows the Mail in MS outlook for individual editing
- updated pdf printer driver version (build **3.6.0130**) last pdf 3.0 version

#### Version 2.3: What's new since 2.2 release:

- updated demo database
- updated node\_outlook.dll for better compatibility with different MS outlook Versions
- updated nodexchange.dll
- new pdf bookmark commands **TobitProXL\_GetPDFBookmarks**, **TobitProXL\_ClearPDFBookmarks**, **TobitProXL\_SetPDFBookmarks** (modify existing pdf files to change the bookmarks)

#### Version 2.2: What's new since 2.1 release:

- updated NodeXchange.dll (suppresses the from parameter while sending mails with outlook/Exchange) This version uses now the default mail account to avoid incompatibility with MS Exchange
- updated NodeOutlook.dll (more compatible with different MS outlook ServicePacks and MS Exchange)

#### Version 2.1: What's new since 2.0 release:

- fixed demo database
- updated NodeXchange.dll (corrects multiple pdf print job)
- updated NodeOutlook.dll (more compatible with different MS outlook ServicePacks)

#### Version 2.0: What's new since 1.4 release:

- changed pdf dll initialization: it is now possible to run 2 4D apps with pdf function at the same time, the 1.4 version has to be restarted before
- grab a **web page** to an external txt file **TobitProXL\_LoadPage**
- send simple e-mails (plain text or html) with **MS outlook** (no outlook Express)
- send PDF e-mails (plain text or html) with **MS outlook** (no outlook Express)
- noticeable speed improvement for the printer driver
- optional command **TobitProXL\_AddFonts** (embed all used fonts into your pdf)
- new **pdf watermark** as background letter form page (additional to the optional background pictures, it is now possible to use pdf files as watermark for the resulting pdf also)
- support for formatted mail addresses like **MyName <myname@mydomain.com>** is now included

#### Version 1.4: What's new since 1.3 release:

- bug fix for smtp html email sending
- noticeable speed improvement for the printer driver
- **changed dll** access: the plugin now loads the dlls from the installed pdf printer driver, you don't have to place the dlls inside the win4dx folder anymore.

#### Version 1.3: What's new since 1.2 release:

- bug fix for 4D 2004 client/server, resolves the correct path to the plugin dlls
- improved demo database which some more samples
- new commands **DoInit**, **DoDeinit**
- new light plugin license, needs a additional pdf XChange printer license for each computer

- price drop for the pro version of the plugin

### Version 1.2: What's new since 1.1 release:

- bug fix on printing several print jobs into one pdf (delay problem)
- improved demo database which some more samples
- bookmark support for the first page of every print job
- changed command **TobitProXL\_Email**(To;Cc;Subject)
- new commands **TobitProXL\_PdfDeletePages**, **TobitProXL\_GetPdfInfos**, **TobitProXL\_GetPdfPagecount**, **TobitProXL\_GetPdfPWInfo**, **TobitProXL\_SetBookmark**
- optional parameters to manually size the watermark picture within a given frame. (now also gif images works as watermark)
- sample Database for 4D 2004.x

### Version 1.1: What's new since 1.0 release:

- bug fix on sending emails
- improved demo database which some more samples
- fixes to the mac stub plugins
- send simple html styled email (freeware version)
- optional parameters to manually size the watermark picture within a given frame. (now also gif images works as watermark). Changed commands: **TobitProXL\_BriefbogenStandard**, **TobitProXL\_BriefbogenSimple**
- merge pdfs manually (normally the plugin does it for you during printing several print jobs to the plugin, but sometimes you like to merge existing pdfs into the newly created ones)

### How to install:

Download the final version **pdf\_printer.zip** and expand the archive to this directory: "c:\PDF\_Printer\" on your system volume.

### Inside this folder you'll find

- [pdf\\_printer.pdf](#) (this documentation)
- [pdf\\_printer4.exe](#) (the pdf X-change printer driver with silent install). **You have to install the printer driver before you can test the demo.**
- optional [pdf\\_printer3.exe](#) (for compatibility, the plugin works also with the old PDF-XChange v3 driver).
- [pdf\\_demo\\_68](#) directory (4D 6.8.6 source with demo code, to try this you have to install the **pdf\_printer4.exe** or **pdf\_printer3.exe**)
- [pdf\\_demo\\_2003](#) directory (4D 2003.8 source with demo code, to try this you have to install the **pdf\_printer4.exe** or **pdf\_printer3.exe**)
- [pdf\\_demo\\_2004](#) directory (4D 2004.8 source with demo code, to try this you have to install the **pdf\_printer4.exe** or **pdf\_printer3.exe**)
- [pdf\\_demo\\_v11](#) directory (4D v11.5 source with demo code, to try this you have to install the **pdf\_printer4.exe** or **pdf\_printer3.exe**)
- [pdf\\_plugin](#) pdf plugin distribution directory. This directory contains 2 folders (win4dx and plugins folder)

Inside your **Win4dx** folder (4D 6.8.x/4D 2003), you'll need these files:

#### **place inside win4dx:**

**TobitProXL.4dx**, **TobitProXL.rsr**,  
**NodeXchange.dll**, **PDFv4.zip**, Win32API.4dx,  
 Win32API.rsr  
 (if you like to use the new MS outlook e-mail send function, you have to place also the **nodeOutLook.dll** inside your win4dx folder.

Inside your **plugins** folder (4D 2004(4D v11), you'll need these bundle folders:

#### **place inside plugins:**

**TobitProXL.bundle** and **Win32API.bundle**

# Plugin commands

`$err:=TobitProXL_PDFStart(File/Path;PDF_Driver;PDF_Version)` (changed with Version 3.0)

Initializes the pdf creation, switches from standard printer driver to the pdf x-change 4.0 printer driver.

File/Path:TEXT	If you like to save the pdf as file, please give the full path as parameter. The pdf file creation have to finished with <b>TobitProXL_Save</b> . If you like to send the pdf via email, please give only the name for the attachment as parameter. The pdf file creation have to finished with <b>TobitProXL_Send</b> or <b>TobitProXL_Send SmtP</b> .
PDF_Driver:String	Returns the name of the current active pdf driver in use by the plugin
PDF_Version:Long	Returns 3 or 4 (initialized pdf driver version)
\$err:Long	Return value 0: OK 1: PDF-XChange printer not found 2: PDF Filename missed 3: distribution dll not found 4: no valid license or demo license expired

Sample to create and save a pdf file:

```
$err:=TobitProXL_PDFStart („c:\mypdf.pdf“;$vS_drivename;$vL_version) `full
path is needed
If ($err=0)
  `*** print something
  `*** close job, finish the pdf and reset the standard printer driver
  $err:=TobitProXL_Save
end if
```

Sample to create a pdf file and mail this with standard mapi:

```
$err:=TobitProXL_PDFStart (“mypdf.pdf“;$vS_drivename;$vL_version) `only
document name is needed (no path)
If ($err=0)
  `*** print something
  `*** initialize to, cc, bcc and subject for mail
  TobitProXL_Email (“info@mail.de“;“info2@mail.de“;““;“Test Mail“)
  `*** initialize body text for mail
  TobitProXL_MsgBody (“this is the body text“;$blob)
  `*** close job, finish the pdf call Mapi and reset the standard printer driver
  $err:=TobitProXL_Send
End if
```

Note: to suppress errors, please check that there is only one pdf printer driver installed which name starts with PDF-Xchange 4.0. current version **„PDF-Xchange 4.0“ v4 Build 0171**.

When using the **4D Print Form or Print Selection** command, 4D fails sometimes to properly toggle to the pdf printer driver.  
 For this reason, you have to integrate a 4D dummy form which stores the "PDF-XChange" printer driver settings. (Set the PDF-XChange Driver as default printer, start your application in design mode, create a dummy form, call FILE

PAGE SETUP, save and close your form, quit 4d, reselect your default printer and try it out.)  
 To activate the dummy form you have to call the dummy form with this 4d command before you can print properly your Print Form layout.

**PAGE SETUP([constants];"myPDF\_dummyform")**

If you like also to print 4D Print Form layouts in landscape mode, please ensure that you also create and call a comparable form inside your database.

If you like to print PDF files from other 4D plugins, please have a look on our sample database how to print from 4d Write. Maybe some 4D plugins like 4D Draw, Chart etc. should be printed from offscreen areas to force 4D to use the PDF printer driver.

Due to a 4D 2004/v11 issue, you may have to switch the pdf printer driver manually, cause 4D 2004/v11 doesn't recognize the printer switch from the plugin. To switch the printer manually you have to look at the demo database.

**\$err:=TobitProXL\_Save**

---

Saves and closes the pdf file creation initialized with **TobitProXL\_PDFStart**  
 Restores the standard printer driver

Sample:

```

`*** start pdf creation and switches the printer driver
$err:=TobitProXL_PDFStart ($PDFpath;$vS_drivename;$vL_version) `full path
is needed
If ($err=0)
  `*** print something
  `*** close job, finish the pdf and reset the standard printer driver
  $err:=TobitProXL_Save
end if
  
```

\$err:Long                      Return value

0: OK  
 1: could not merge final pdf  
 5: attachment not found

**\$err:=TobitProXL\_Send**

---

Saves and closes the pdf file creation initialized with **TobitProXL\_PDFStart**  
 Restores the standard printer driver. And open the standard windows mapi mail client.

Sample:

```

$PDFpath:="myPDF.pdf"
`*** start pdf creation and switches the printer driver
$err:=TobitProXL_PDFStart ($PDFpath;$vS_drivename;$vL_version) `only
document name is needed (no path)
If ($err=0)
  `*** print something
  `*** initialize to, cc, bcc and subject for mail
  TobitProXL_EMail ("info@mail.de";"other@mail.de";"";"Test Mail")
  `*** initialize body text for mail
  TobitProXL_MsgBody ("this is the body text";$blob)
  `*** close job, finish the pdf call Mapi and reset the standard printer driver
  $err:=TobitProXL_Send
End if
  
```

\$err:Long                      Return value

- 0: OK
- 1: could not merge final pdf
- 2: error on using mapi
- 5: attachment not found

**\$err:=TobitProXL\_SendSmtplib(Smtplib\_server;Account;Password;From;Priority;Html;SendMethod;ReturnText)**

Saves and closes the pdf file creation initialized with **TobitProXL\_PDFStart**  
 Restores the standard printer driver and sends pdf file to the defined smtp mail server. The send process works in background without any user interaction.

Sample:

```
$RetText:=""
$PDFpath:="myPDF.pdf"
`*** start pdf creation and switches the printer driver
$err:=TobitProXL_PDFStart ($PDFpath;$vS_drivename;$vL_version) `only
document name is needed (no path)
If ($err=0)
  `*** print something
  `*** initialize to, cc, bcc and subject for mail
  TobitProXL_Email ("info@mail.de";"other@mail.de";"";"Test Mail")
  `*** initialize body text for mail
  TobitProXL_MsgBody ("this is the body text";$blob)
  `*** close job, finish the pdf call Mapi and reset the standard printer driver
  $smtp_server:=[Letter]smtp_server `smtp server from your mail provider
  $smtp_account:=[Letter]smtp_account `account from your mail provider for the
  from email address
  $smtp_password:=[Letter]smtp_password `pw for the smtp account
  $smtp_from:=[Letter]smtp_from `sender reply email address
  $err:=TobitProXL_SendSmtplib ($smtp_server;$smtp_account;$smtp_password;
  $smtp_from;0;bUseHtmlBody;0;$RetText)
End if
```

Smtplib_server:String	your mail smtp server (maybe smtp.mail.com, please ask your provider or the ip adress if you have an inhouse mail server)
Account:String	Mail account name, please ask your provider. (if the smtp server is an inhouse ip address, the account sometimes is not mandatory)
Password:String	Mail account password, please ask your provider. (if the smtp server is an inhouse ip address, the password sometimes is not mandatory)
From:String	your own email address
Priority:Long	0=normal, 1=high, 2=low
Html:Long	0=plain body text, 1= html body text On html=1, the plugin interpretes the mail body text from <b>TobitProXL_MsgBody</b> as html code. The mail will be send with html header. The plain text part for older mail clients will be also created and send. If there are any pictures sources inside the html body text, the plugin converts these in correct email format.  or  or
SendMethod:Long	0=SMTP 2= MS Outlook (send immediately) 3= MS Outlook (hold in Drafts) 4= MS Outlook (hold in Drafts and auto open for manual send) If SendMethod = 2,3 or 4, the parameter for smtp authentication could be empty strings (Smtplib_server, Account, Password) (If you use MS Outlook as a frontend for a unix mail server, then maybe you need to use other parameters as send method)

- 5= MS Outlook (send immediately)
- 6= MS Outlook (hold in Drafts)
- 7= MS Outlook (hold in Drafts and auto open for manual send)

ReturnTxt:Text      possible error message from windows

**Note:** Is the SendMethod = 2, 3 or 4, you have to place the nodeOutLook.dll inside your win4dx folder. If you have a fresh MS Office installation on your pc, the send mail with MS Outlook fails unless you have updated to the latest MS Service Pack. You'll need Outlook 2000>=SP3, 2002>=SP3, 2003>=SP3

\$err:Long              Return value

- 0: OK
- 1: could not merge final pdf
- 2: error on smtp send process
- 4: could not evaluate html, mostly if the embedded picture path is not correct
- 5: attachment not found
- 6: error accessing MS Outlook
- 9: error accessing the registry to add/modify redemption entry

**If you get an error 6, then you have to check these points**

- is the nodeOutLook.dll inside the active win4dx
- is MS Outlook installed (no Outlook Express)
- are the latest MS Office/Outlook Service Packs installed
- the mapi32.dll inside c:\windows\system32\ must be from Microsoft

**Note:** In some cases, mostly in restricted networks, users has no privileges to write to the windows registry. The nodeOutLook.dll needs write privileges to this registry path "HKEY\_LOCAL\_MACHINE\SOFTWARE\Redemption".  
 If you have an **error 6 or error 9** and everything above is checked, then use the plugin function one times with administrator rights (right click execute as administrator). After the redemption entry is created, edit this entry right mouse click to adjust the access privileges for every user entry to full access. Then it should work fine.  
 The Redemption 3rd party dll is the only way to get MS Outlook access without any boring dialogs to allow access for a few minutes.

**\$err:=TobitProXL\_SimpleMail(To;Cc;Bcc;From;Subject;SMTP\_Server;Account;Password;Priority;Html;Body;Attachments;SendMethod;ReturnTxt) (changed with Version 2.4)**

Creates and send a email without any user interaction. This Plugin command works as standalone command.

This Plugin command is **freeware** and does not need a valid license code. If you like to use it as standalone, without the other plugin part, you have to place the "NodeXChange.dll" inside your win4dx folder and initialize the plugin by calling the demo licence code. The demo timeout was not activated for this command.  
 (\$err.=**TobitProXL\_License**(„DEMO“;„DEMO“;„“))

Sample:

```
$RetText:=""
$mail_to:="info@nodegmbh.de"
$mail_subject:="This is my Subject"
$mail_body:="This is my body"
$smtp_server:="smtp.mail.com" `smtp server from your mail provider
$smtp_account:="account" `account from your mail provider for the from email address
```

```

$smtp_password:="****" `pw for the smtp account
$smtp_from:="mymail@mail.com" `sender reply email address
$cc:=""
$bcc:=""
$prio:=1
If (bUseHtmlBody=1)
  $mail_body:=Replace string($mail_body;"<br>" + Char(13);Char(13))
  $mail_body:=Replace string($mail_body;Char(13);"<br>")
End if
$err:=TobitProXL_SimpleMail ($mail_to;$cc;$bcc;$smtp_from;
                             $mail_subject;$smtp_server;
                             $smtp_account;$smtp_password;1;
                             bUseHtmlBody;$mail_body;
                             arrT_MailAttachments;0;$retText)

PDF_Error ($err;"Simple Mail Send") `show errors
  
```

To:Text	recipient for email
Cc:Text	carbon copy to
Bcc:Text	blind carbon copy to (to,cc,bcc could be formatted as "mail1@mail.com;mail2@mail.com;mail3@mail.com")
From:String	your own email address
Subject:String	subject for email
Smtplib:SMTP	your mail smtp server (maybe smtp.mail.com, please ask your provider or the ip adress if you have an inhouse mail server)
Account:String	Mail account name, please ask your provider. (if the smtp server is an inhouse ip address, the account sometimes is not mandatory)
Password:String	Mail account password, please ask your provider. (if the smtp server is an inhouse ip address, the password sometimes is not mandatory)
Priority:Long	0=normal, 1=high, 2=low
Html:Long	0=plain body text, 1= html body text On html=1, the plugin interpretes the mail body text from <b>TobitProXL_MsgBody</b> as html code. The mail w´ll be send with html header. The plain text part for older mail clients w´ll be also created and send. If there are any pictures sources inside the html body text, the plugin converts these in correct email format. <b>&lt;img src="c:\mypict.jpg"&gt; or &lt;img src="file:///c:\pictures\logo.gif"&gt; or &lt;img src="http://www.nodegmbh.de/maillogo/knick.gif"&gt;</b>
Body:TEXT	body text for email (html code or normal plain text code)
Attachments:Array	Text Array, which contains the vaild pathes to optional attachments
SendMethod:Long	0=SMTP 2= MS Outlook (send immediately) 3= MS Outlook (hold in Drafts) 4= MS Outlook (hold in Drafts and auto open for manual send) If SendMethod = 2,3 or 4, the parameter for smtp authentication could be empty strings (Smtplib, Account, Password) (If you use MS Outlook as a frontend for a unix mail server, then maybe you need to use other parameters as send method 5= MS Outlook (send immediately) 6= MS Outlook (hold in Drafts) 7= MS Outlook (hold in Drafts and auto open for manual send)
ReturnText:Text	possible error message from windows

**Note:** If you have a fresh MS Office installation on your pc, the send mail with MS Outlook fails unless you have updated to the latest MS Service Pack. You'll need Outlook 2000>=SP3, 2002>=SP3, 2003>=SP3

\$err:Long

Return value

- 0: OK
- 2: error on smtp send process
- 4: could not evaluate html, cause the included picture path is not correct.
- 5: attachment not found
- 6: error accessing MS Outlook
- 9: error accessing the registry to add/modify redemption entry

**If you get an error 6, then you have to check these points**

- is the nodeOutLook.dll inside the active win4dx
- is MS Outlook installed (no Outlook Express)
- are the latest MS Office/Outlook Service Packs installed

**Note:** In some cases, mostly in restricted networks, users has no privileges to write to the windows registry. The nodeOutLook.dll needs write privileges to this registry path "HKEY\_LOCAL\_MACHINE\SOFTWARE\Redemption" (the Redemption entry shows some uneditable chars to protect copy paste).

If you have an **error 6 or error 9** and everything above is checked, then use the plugin function one times with administrator rights (right click execute as administrator). After the redemption entry is created, edit this entry right mouse click to adjust the access privileges for every user entry to full access. Then it should work fine.

The Redemption 3rd party dll is the only way to get MS Outlook access without any boring dialogs to allow access for a few minutes.

Note: further description, see the red boxes for the **TobitProXL\_SendSmtp** command.

Note: This is a freeware part of the plugin, to use this, have a look on **TobitProXL\_License** also inside your Startup method.

**\$err=TobitProXL\_AddPDF(Path;Bookmark) (new with Version 2.4)**

Path:Text	Integrate an external PDF document to the current PDF creation. (With the previous versions, the pdf needs to be printed to integrated into a pdf creation)
Bookmark:String	An optional Bookmark to navigate inside the PDF. If you dont like to use this Bookmark option please format the parameter as an empty string.
\$err:Long	Return value
	0: OK
	1: no current pdf creation with TobitProXL_Start initiated
	2: file not found under the given path
	3: distribution dll not found
	4: could not copy the source pdf to the working folder

**TobitProXL\_Attach(Path)**

Path:Text	Attach external documents to pdf emails, send as an attachment
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**TobitProXL\_MsgBody(Body;Blob\_Body) (changed with Version 3.1)**

Body:Text	insert the body text for emails
-----------	---------------------------------

Blob\_Body:Blob      Needed parameter, insert the body text for emails. If this blob is not empty, then the content of the blob parameter is used instead of the text parameter.

See **TobitProXL\_Send** for sample code

### **TobitProXL\_Email(To;Cc;Bcc;Subject)** (changed with Version 2.4)

---

To:Text              recipient for email  
Cc:Text              carbon copy to  
Bcc:Text              blind carbon copy to  
                            (to,cc,bcc could be formatted as  
                            "mail1@mail.com;mail2@mail.com;mail3@mail.com")  
Subject:String      subject for pdf emails

This procedure sets the receiver and subject for mails.

See **TobitProXL\_Send** for sample code

### **TobitProXL\_BriefbogenSimple(Pic3;Opt3{;Height3;Width3})**

---

Define the background watermark picture for the next printjob. But normally you should use **TobitProXL\_BriefbogenStandard**

Pic3/PDF:Text      full path to the watermark picture, possible file types: **emf, bmp, wmf, jpg, gif, pcx, tif** (emf, bmp, jpg and wmf generates bigger file sizes than gif files with transparent background and slows down the pdf file creation)  
also allowed: a path to a single page **pdf file**. If there is a pdf file as background selected, the following parameters has no function and could be "0"

Op3:Long            position for the watermark picture on the pdf page  
Possible options:  
1: scaled and center to full size  
2: centered without picture scaling  
3: top left without picture scaling  
4: top right without picture scaling  
5: top center without picture scaling  
6: bottom left without picture scaling  
7: bottom right without picture scaling  
8: bottom center without picture scaling

Optional parameters for manually sizing the background picture. Sometimes text logos need to be scaled manually to get crisp result into the final pdf.

Height3:Long      manual height for the page watermark (0=no height)  
Width3:Long        manual width for the page watermark (0=no width)

### **TobitProXL\_BriefbogenStandard(Pic1;Pic2;Opt1;Opt2{;Height1;Height2;Width1;Width2})**

---

Pic1/PDF:Text      full path for the optional background watermark for the first page. To suppress, place a blank string, possible file types: **emf, bmp, wmf, jpg, gif, pcx, tif** (emf, bmp, jpg and wmf generates bigger file sizes than gif files with transparent background and slows down the pdf file creation)

Pic2/PDF:Text      full path for the optional background watermark for the following pages. To suppress, place a blank string, possible file types: **emf, bmp, wmf, jpg, gif, pcx, tif** (emf, bmp, jpg and wmf generates bigger file sizes than gif files with transparent background and slows down the pdf file creation)

also allowed: a path to a single page **pdf file**. If there is a pdf file as background selected, the following parameters has no function and could be "0"

Op1/Opt2:Long position for the watermark picture on the pdf page  
 Possible options:  
 1: scaled and center to full size  
 2: centered without picture scaling  
 3: top left without picture scaling  
 4: top right without picture scaling  
 5: top center without picture scaling  
 6: bottom left without picture scaling  
 7: bottom right without picture scaling  
 8: bottom center without picture scaling

Optional parameters for manually sizing the background picture. Sometimes text logos need to be scaled manually to get crisp result into the final pdf.

Height1:Long manual height for the first page watermark (0=no height)  
 Height2:Long manual height for the following pages watermark (0=no height)  
 Width1:Long manual width for the first page watermark (0=no width)  
 Width2:Long manual width for the following pages watermark (0=no width)

**TobitProXL\_PdfOptions(PW;PW;Opt1;Opt2;Opt3;Opt4;Opt5)**

PW:String owner password  
 PW:String user password  
 Opt1:Long print permitted 1=yes, 0=no  
 Opt2:Long text copy permitted 1=yes, 0=no  
 Opt3:Long pdf change permitted 1=yes, 0=no  
 Opt4:Long individual comments permitted 1=yes, 0=no  
 Opt5:Long JPEG-compression for picts, in percent default is 60.

**TobitProXL\_PdfInfo(Titel;Theme;Owner;Application;Keywords)**

Titel:String PDF Info titel  
 Theme:String PDF Info theme  
 Owner:String PDF Info owner name  
 Application:String PDF Info creator application  
 Keywords:String PDF Info keywords separated with blanks

**\$err.=TobitProXL\_License(Company;Name;Code)**

Company:String company name  
 Name:String developer name  
 Code:String registration key

Sample:  
 \$err.=**TobitProXL\_License**(„DEMO“;„DEMO“;““)  
 activates the plugin for 10 minutes.

\$err:Long Return value  
 0: license valid  
 1: invalid license

Note: To use only the freeware parts of the plugin, the **TobitProXL\_License("DEMO";"DEMO";"")** command must be included inside your startup (debut) method.

**\$err:=TobitProXL\_PdfMerge(Pdf1;Pdf2;PageNo)**

---

Pdf1:Text	Full path to source and destination pdf document.
Pdf2:Text	Full path to source pdf document.
PageNo:Long	Page Nummer to insert pdf2 into pdf1. (0=insert after the end of pdf1)
\$err:Long	Return value
	0: OK
	1: could not open pdf1
	2: could not insert pdf2
	3: distribution dll not found
	4: no valid license or demo timeout

Sample:

```
$path1="c:\mypdf1.pdf"
$path2="c:\mypdf2.pdf"
$err:=TobitProXL_PdfMerge ($path1;$path2;0)
PDF_Error ($err;"PDF Merge") `show errors
```

**\$err:=TobitProXL\_PdfDeletePages(Pdfpath;Page\_from;Page\_to)**

---

Pdfpath:Text	Full path to source pdf document.
Page_from:Long	first page to delete
Page_to:Long	last page to delete
\$err:Long	Return value
	0: OK
	1: could not open pdf
	2: could not delete pages
	3: distribution dll not found
	4: no valid license or demo timeout

Sample:

```
$path="c:\mypdf1.pdf"
$err:=TobitProXL_PdfDeletePages ($path;2;3) `delete page 2-3 from pdf
PDF_Error ($err;"PDF delete") `show errors
```

**\$err:=TobitProXL\_GetPdfInfos(Pdfpath;Titel;Subject;Author,Creator;Keywords;Application)**

---

Titel:String	PDF Info titel
Theme:String	PDF Info theme
Owner:String	PDF Info owner name
Application:String	PDF Info creator application
Keywords:String	PDF Info keywords separated with blanks
\$err:Long	Return value
	0: OK
	1: could not open pdf
	2: could not delete pages
	3: distribution dll not found
	4: no valid license or demo timeout

**\$err:=TobitProXL\_GetPdfPageCount(Pdfpath)**

---

Pdfpath:Text Full path to source pdf document.  
 \$err:Long Return value  
 0: could not detect page count  
 >0: page count

**\$err:=TobitProXL\_GetPdfPWInfo(Pdfpath)**

---

Pdfpath:Text Full path to source pdf document.  
 \$err:Long Return value  
 0: pdf file is not protected  
 1: pdf file is password protected

**\$err:=TobitProXL\_SetBookmark(Bookmark)**

---

Bookmark:String Bookmark to set for the first page of the next print job  
 \$err:Long Return value  
 0: OK  
 3: distribution dll not found

**\$err:=DoInit (no longer needed)**

---

Reloads the pdf dlls into memory which was previously unloaded by DoDeinit.  
 This feature is for developers which uses several 4d applications with pdf functions at the same time.  
 This command works only if the plugin works unlocked with a valid serial number.

\$err:Long Return value  
 0: OK  
 4: does not work in demo mode

Since Version 2.0, these plugin command are no longer needed, cause the plugin initialization allows now multiple instances of 4D apps loaded at the same time. (but only one is able to create pdfs at the same time)

**\$err:=DoDeinit (no longer needed)**

---

Unload the pdf dlls from memory.  
 This feature is for developers which uses several 4d applications with pdf functions at the same time.  
 This command works only if the plugin works unlocked with a valid serial number.

\$err:Long Return value  
 0: OK  
 4: does not work in demo mode

Since Version 2.0, these plugin command are no longer needed, cause the plugin initialization allows now multiple instances of 4D apps loaded at the same time. (but only one is able to create pdfs at the same time)

**\$err:=TobitProXL\_LoadPage (Dest\_Path;URL)**

---

This command loads the destination url into a text file.

Dest\_path:Text      Destination path to a text file  
 URL:Text            Web url

\$err:Long            Return value

0: OK  
 1: error on download  
 2: txt path or url is missing  
 3: nodeXchange.dll not found

Note: This is a freeware part of the plugin, to use this, have a look on **TobitProXL\_License** also.

Sample:

```
VT_URL:="http://www.4d.com"
$url_source:="c:\mypage.txt"
If (Test path name($url_source)=Is a document )
  DELETE DOCUMENT($url_source)
End if

$error:=TobitProXL_LoadPage ($url_source;VT_URL)
PDF_Error ($err;"load url";8) `show errors
If ($err=0)
  If (Test path name($url_source)=Is a document )
    SET BLOB SIZE($myBlob;0)
    DOCUMENT TO BLOB($url_source;$myBlob)
    If (OK=1)
      vOffset:=0
      vT_WebPage:=BLOB to text($myBlob;Text without length ;vOffset;32000)
      REDRAW(vT_WebPage)
    End if
  End if
End if
```

**TobitProXL\_AddFonts** (EmbedFonts)

---

This command adds/embeds all used fonts to your resulting pdf file. This command must be called before the first print job. This command is optional.

If you use this command, te resulting pdf files increases a little bit.

EmbedFonts:Long      0 = don't embed (default), 1= embed all Fonts

**\$err:= TobitProXL\_GetPDFBookmarks** (Source\_Path, Bookmark, Pages, {Passwd})

---

Reads the bookmarks from a pdf file.

Source\_path:Text      Path to a valid PDF document  
 Bookmark:Array(out) Text Array, contains the bookmark strings from the pdf file corresponding to the pages array.  
 Pages:LongArray(out) Longint Array, contains the page numbers corresponding to the bookmark array.  
 Passwd:String        optional pdf password

\$err:Long            Return value

0: OK  
 1: could not open pdf file (check the path)

- 2: could not read bookmarks
- 3: nodeXchange.dll not found
- 4: no valid license

**\$err:= TobitProXL\_ClearPDFBookmarks (filename, {Passwd})**

---

Clears all bookmarks from a pdf file.

Source_path:Text	Path to a valid PDF document
Passwd:String	optional pdf password
\$err:Long	Return value
	0: OK
	1: could not open pdf file (check the path)
	2: could not delete bookmarks
	3: nodeXchange.dll not found
	4: no valid license

**\$err:= TobitProXL\_SetPDFBookmarks (Source\_path, Bookmarks, Pages, {Passwd})**

---

Writes bookmarks to a pdf file. only 1 bookmark for each page is possible. (Please use TobitProXL\_ClearPDFBookmarks before) [See sample database.](#)

Please insure, that there are no higher page values than existing pages.

Source_path:Text	Path to a valid PDF document
Bookmark:Array(in)	Text Array, contains the new bookmark strings for the pdf file corresponding with the pages array.
Pages:LongArray(in)	Longint Array, contains the page numbers corresponding to the bookmark array.
Passwd:String	optional pdf password
\$err:Long	Return value
	0: OK
	1: could not open pdf file (check the path)
	2: could not writebookmarks
	3: nodeXchange.dll not found
	4: no valid license

**TobitProXL\_MailCoding (CharSet)**

---

Change the character set for the current mail. If this command is missing, the default character set iso-8859-1 for westeropean languages is used. This command don't codes chars by itself, it is expected that e-mail text and subject passed in the correct character set.

As a valid character set according to RFC 1521 encoding are a few examples listed there: [http://en.wikipedia.org/wiki/ISO\\_8859-1](http://en.wikipedia.org/wiki/ISO_8859-1)

CharSet:String	character set for the current mail
----------------	------------------------------------

**TobitProXL\_MailPort (Port)**

---

Change the the smtp port for the current mail. If this command is missing, the default port 25 is used.

Port:Long mail port for the current mail, only for smtp mails, default ist 25

**\$err:=TobitProXL\_Zip** (Dest\_Path;Source Array)

This command creates a zip file from the sources of the source array

Dest_path:Text	Destination path for a new zip file
Sources:Text Array	External sources to zip
\$err:Long	Return value
	0: OK
	1: error on download
	2: txt path or url is missing
	3: nodeXchange.dll not found

**Note:** This is a freeware part of the plugin, to use this, have a look on **TobitProXL\_License** also.

Sample:

```
VT_URL:="http://www.4d.com"
$url_source:="c:\mypage.txt"
If (Test path name($url_source)=Is a document )
  DELETE DOCUMENT($url_source)
End if

$err:=TobitProXL_LoadPage ($url_source;VT_URL)
PDF_Error ($err;"load url";8) ` show errors
If ($err=0)
  If (Test path name($url_source)=Is a document )
    SET BLOB SIZE($myBlob;0)
    DOCUMENT TO BLOB($url_source;$myBlob)
    If (OK=1)
      vOffset:=0
      vT_WebPage:=BLOB to text($myBlob;Text without length ;vOffset;32000)
      REDRAW(vT_WebPage)
    End if
  End if
End if
```

**Note to avoid errors**

**PDF creation needs printer driver**

Sometimes our support gets some mails from 4D developers, whose tried the demo databases without the pdd printer driver installed.

The pdf creation parts of the demo, needs the pdf printer driver PDF-Xchange (pdf\_printer4.exe) installed.

**Windows Server 2008**

With Windows 2008 server set the following registry key to 1

HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\kernel\DisableExceptionChainValidation = 1

## 4D 2004 error 4099

---

4D 2004 has a bug with "Set current printer" command. The command shows **error 4099** on screen if the given printer name parameter implies only the printer name. So we use a workaround inside the demo db, to get the printername with the Win32Api plugin. The Win32API Plugin **sys\_GetDefPrinter** returns "<printer name>,<driver name>,<port>"

Inside the demo database for 4D 2004 there is a 4D method how to switch the printer properly.

## OutLook Terminal Server

---

The plugin register the nodeOutLook.dll for sending mail with MS OutLook. On a multiuser Terminal Server, the dll has to be registered once from the administrator to avoid conflicts.

1. Create a directory "%ALLUSERSPROFILE%\Application Data\nodeOutlook"
2. Copy 'nodeoutlook.dll' from our Win4DX folder into this folder
3. Go to START-RUN type in cmd
4. Type in "cd %ALLUSERSPROFILE%\Application Data\nodeOutlook" to change the directory
5. Type in "change user /install"
6. Type in "regsvr32 nodeoutlook.dll"
7. Type in "change user /execute"
8. Reboot the machine.

## OutLook mail send error 6 or 9

---

If you get this error, please check:

- is the nodeOutLook.dll inside the active win4dx
- is MS OutLook installed (no OutLook Express)
- are the latest MS Office/OutLook Service Packs installed
- the mapi32.dll inside c:\windows\system32\ must be from Microsoft

In some cases, mostly in restricted networks, users has no privileges to write to the windows registry. The nodeOutLook.dll needs write privileges to this registry path "HKEY\_LOCAL\_MACHINE\SOFTWARE\Redemption"

If you have an **error 6 or error 9** and everything above is checked, then use the plugin function one times with administrator rights. After the redemption entry is created, edit this entry right mouse click to adjust the access privileges for every user entry to full access. Then it should work fine.

The Redemption 3rd party dll is the only way to get MS OutLook access without any boring dialogs to allow access for a few minutes.

## OutLook service packs

---

If you have a fresh MS Office installation on your pc, the send mail with MS OutLook fails unless you have updated to the latest MS Service Pack. You'll need OutLook 2000>=SP3, 2002>=SP3, 2003>=SP3, 2007>=SP1

## 4D Print Form/Print Selection command

---

When using the **4D Print Form** or **4D Print Selection** command, 4D fails sometimes to properly toggle to the pdf printer driver.

For this reason, you have to integrate a 4D dummy form which stores the "PDF-XChange" printer driver settings. (Set the PDF-XChange Driver as default printer, start your application in design mode, create a dummy form, call FILE PAGE SETUP, save and close your form, quit 4d, reselect your default printer and try it out.)

To activate the dummy form you have to call the dummy form with this 4d command before you can print properly your Print Form layout.

**PAGE SETUP([constants];"myPDF\_dummyform")**

If you like also to print 4D Print Form layouts in landscape mode, please ensure that you also create and call a comparable form inside your database.

If you like to print PDF files from other 4D plugins, please have a look on our sample database how to print from 4d Write. Maybe some 4D plugins like 4D Draw, Chart etc. should be printed from offscreen areas to force 4D to use the PDF printer driver.

## 4D 2004 / v11 printer switch

---

Due to a 4D 2004/v11 issue, you may have to switch the pdf printer driver manually, cause 4D 2004/v11 doesn't recognize the printer switch from the plugin. To switch the printer manually you have to look at the demo database. There ist a sample method how to do this.

## Which PDF printer version ?

---

The current 4D plugin release works with the provided

PDF-Xchange printer driver v3 (pdf\_printer3.exe, **old version**) or  
 PDF-Xchange printer driver v4 (pdf\_printer4.exe, **new version**).

If both version 3 and 4 are installed, than the plugin uses PDF-Xchange printer driver version 4.

But note: the older 4D plugin version dows not work, if the PDF-Xchange v4 printer driver is installed.

If you bought the 4d pdf plugin light, than you have to buy a seperate PDF-Xchange printer license for each PC. But note: you'll need the PDF-Xchange printer driver v4 license standard or professional, the light PDF-Xchange driver does not work.

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