

Parameter-Steuerung

pdfMachine Ultimate/ pdfMachine ZUGFeRD

pdfMachine 14.69

Windows 7 / 8 / XP / 2003 / Vista / 2008 / 2012
und alle x64 bit Systeme

pdfMachineTM
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Mit der Aktivierung der Parameter-Steuerung in den Optionen der pdfMachine steht dem Anwender und Administrator ein mächtiges Werkzeug zur Automatisierung von Abläufen in Verbindung mit beliebigen anderen Software-systemen zur Verfügung.

Im Gegensatz zu den am Markt üblicherweise verfügbaren Produkten lässt sich die pdfMachine vollständig z.B. in ERP Software, Warenwirtschaftslösungen oder auch technischen und branchenspezifischen Systemlandschaften integrieren.

Dabei spielt es keine Rolle, ob es sich um Programme und Lösungen von SAP, Navision, MS Business Solutions, Sage, Lexware, Nemetschek, Autocad etc. handelt.



Ihr Vorteil

Der Anwender benötigt keinerlei Kenntnisse zur Anwendung der pdfMachine, muss sein gewohntes Arbeitsumfeld nicht verlassen und kann dennoch die volle Funktionalität nutzen.

Fazit

Dies ist nur ein kleines Anwendungsbeispiel zeigt aber doch deutlich was wir unter dem Thema „PDF“ verstehen – Nämlich die sinnvolle Integration eines technischen Standards in tägliche Büroabläufe.

Das spart Zeit und Geld!

Anwendungsbeispiel

Eine weitverbreitete Anwendung ist die Integration der pdfMachine Ultimate / pdfMachine ZUGFeRD in das ERP-System MS Dynamics NAV.



Das folgende Beispiel gehört in diesem Zusammenhang zu den häufigsten Anwendungsfällen

Dabei wünscht der Ersteller eines Angebotes oder einer Rechnung per Knopfdruck in seiner Warenwirtschaft, den direkten Versand aus seinem Programm heraus ohne das er sich darum kümmern muss ob das richtige Firmenbriefpapier verwendet wird, eine digitale Signatur aufgebracht wird um die Rechnung oder das Angebot gegen Manipulation zu schützen oder ob das Dokument tatsächlich direkt dem Empfänger per E-Mail zugestellt wird.

```
#_ email itnt@broadgun.de _#  
#_ savepdf c:\testitnt1.pdf _#  
#_ StationeryEnableStationeryAllPages 1 _#  
#_ StationeryPathStationeryAllPages C:\pdfbriefpapier\Briefpapierbroadgun0504.pdf _#  
#_ StationeryOnTopStationeryAllPages 1 _#  
#_ emailsubject Broadgun Rechnung Nr. 5983.pdf _#  
#_ docname Rechnung _#  
#_ emailbody Hallo, _#  
#_ embed c:\KurzbeschreibungpdfMachine.pdf _#
```

Sollten Sie weiter Informationen benötigen, so freuen wir uns auf Ihre Nachricht an parameter@broadgun.de oder gerne auch telefonisch Telefon +49 208 7803818.

Parameter Parsing / Embedded Commands

Parameters:

Email	Email sending
SavePDF	Save to a file name
AppendPDF	Append a PDF
InsertPDF	Insert a PDF
OpenPass	Set the Open password
PermPass	Set the change permissions password
Stationery	Set or change the PDF stationery
DigSig	Apply the digital signature
Embed	Embed a file
InsertImage	Insert an image
SplitPDF	Split a large PDF into smaller PDF's
bm	Set a bookmark
print	Print PDF to another printer
l	Link. Create a hyperlink.
i	Image button locator
ii	Insert Image
il	Image Link
ilqs	Image Link Query String - Name Value Pair
x_embed	Embed a ZUGFeRD XMLfile
x	Modify a ZUGFeRD XML tag
x_clone	Copy a ZUGFeRD XML tag

Introduction:

Parameters or "Embedded Commands" can be entered into the originating document to instruct pdfMachine on particular actions to take when generating the PDF.

e.g. If the text:

```
#_savePDF C:\tmp\savedfile.pdf _#
```

Appears in a Word document and it is printed to pdfMachine with parameter parsing enabled the file will be automatically saved to c:\tmp\savedfile.pdf and no pdfMachine user interface will be displayed.

If parameter parsing is enabled, pdfMachine will parse the PDF file for the specified parameters listed above and described in detail below. These parameters control both the content of the generated PDF file (eg inserting images, replacing keywords with text) and the way that pdfMachine works (eg setting passwords, emailing the PDF, saving the PDF).

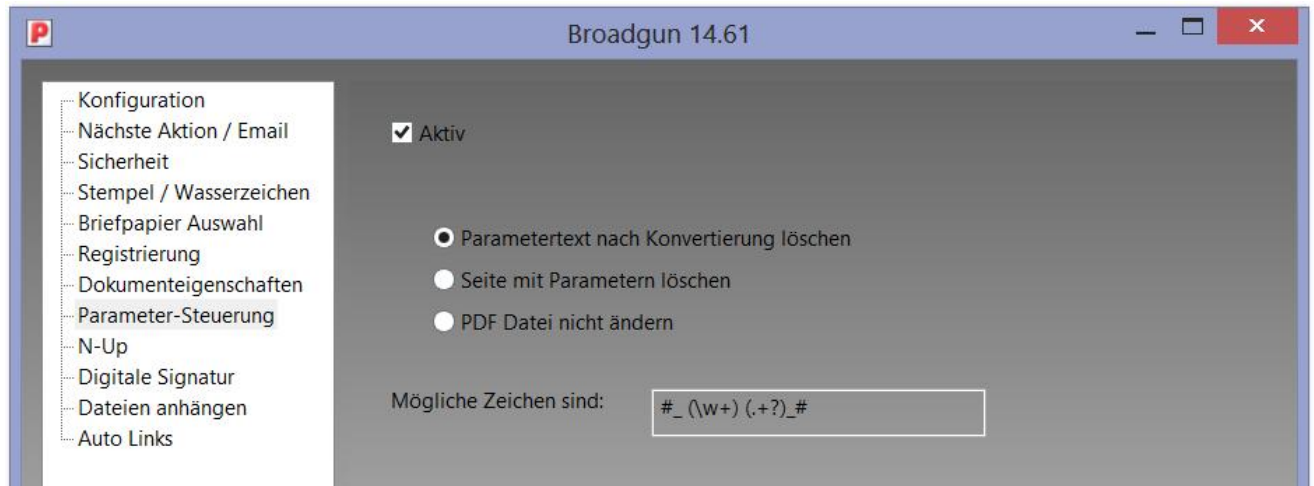
This is particularly useful for integration with legacy software to do "mail merge" type operations.

WARNING: Parameters in pdfMachine can be very powerful and complex. Please test each configuration thoroughly before using in a production environment.

How to use Parameter Parsing

1) Turn it on

Check the "Enabled" check box in the Parameter Parser tab of the pdfMachine Options dialog to turn parameter parsing on. Enabling parameters will slow processing of pdfMachine down a little, so don't do it unless you need them.



After parsing the parameters pdfMachine will either remove from or leave in the parameters from the resultant PDF file as selected by the radio buttons in this dialog.

The parameter parsing is done using the "Perl-Compatible Regular Expressions" library developed by Philip Hazel. A regular expression is a pattern that is matched against a subject string from left to right. For a detailed explanation of regular expressions, please read:

<http://home.att.net/~robertdunn/Papers/RegExpSyntax.html>

The default regular expression used is: `#_ (\w+) (.+?)_#`

We recommend this regular expression is not changed without a good understanding of regular expressions. Should this accidentally be changed it can be corrected using the default regular expression described on this page.

If you need to change the regular expression, it is stored under the following registry entry:

`HKCU\Software\pdfMachine\RegExp`

The default regular expression will allow parameters to be entered into the originating document in the following format: `#_ parameter argument(s) _#`

Note: A parameter and an argument list for that parameter must both be specified, even if the arguments are not used, at least 1 argument must be present. For example:

A valid entry for setting a digital signature in the PDF file is : `#_ digsig 1 _#`

An invalid entry for setting a digital signatures is : `#_ digsig _#`

2) Create the originating document with appropriate parameters. The parameters are not case sensitive. Choose from the parameters listed below:

Parameter	Description
Email	<p><i>Arguments:</i> Comma separated list of email addresses to send to. e.g. #_email dave@broadgun.com _#</p>
EmailCC	<p><i>Arguments:</i> Comma separated list of email addresses to cc to. e.g. #_emailCC dave@broadgun.com _#</p>
EmailBCC	<p><i>Arguments:</i> Comma separated list of email addresses to bcc to. e.g. #_emailBCC dave@broadgun.com _#</p>
EmailSubject	<p><i>Argument:</i> Subject of email e.g. #_emailSubject Your invoice is attached _#</p>
Emailbody	<p><i>Argument:</i> Text body of email. May span across multiple lines. e.g. #_emailBody Hi, Please find attached a very useful PDF file. Best Regards, The Boss. _#</p>
EmailAttachmentName	<p><i>Argument:</i> Name to use for attached PDF file e.g. #_emailAttachmentName invoice.pdf _#</p> <p>Note: Do not use the following invalid Windows filename characters as they will be removed.</p> <p>\ / : * ? " < > </p>
EmailAttachmentsList	<p><i>Argument:</i> A list of files to attach to the PDF. They must exist, and have the full path name defined. The list should be separated by semi-colons with no spaces in between. e.g. #_emailAttachmentsList c:\invoices\123.docx;c:\receipts\123.pdf _#</p> <p>Note: Do not use the following invalid Windows filename characters in the actual filename component as they are illegal characters for a filename and will result in an error.</p> <p>\ / : * ? " < & &rt; </p>
MergeField	<p><i>Arguments:</i> fieldname value</p> <p>The MergeField parameter allows the contents of the Email to be customized to a finer detail. That is, the subject, body and attachment name can be set in the pdfMachine options screens. The {} characters can be used to define field names within these and then the MergeField parameter used to set these field names.</p> <p>MergeField can only be used when the Email parameter is set.</p> <p>Takes a fieldname to replace, and the value to replace that fieldname with. The mergeField is applied to the EmailSubject, EmailBody and EmailAttachment name settings.</p> <p>e.g. #_MergeField first_name Fred _# This will replace all occurrences of {first_name} in the subject, body or attachment name settings, with the word Fred.</p>

Launching the default email client with the PDF Attachment

The following parameters can be used to cause pdfMachine to prepare to email the resultant PDF. The email can then be checked or corrected before it is sent. The EmailTo parameter replaces the Email parameter. The other Email parameters described in the previous table can also be used.

Parameter	Description
EmailTo	<p><i>Arguments:</i> Comma separated list of email addresses to send to.</p> <p>This is used <i>instead</i> of the Email parameter described above. This prefills the email parameter but does not send the email.</p> <p>e.g. #_ EmailTo dave@broadgun.com _#</p>
NextAction	<p><i>Arguments:</i> 4</p> <p>To launch the default email client with the prefilled values set by the parameters a NextAction of 4 should be used. NextAction is only valid to use when the EmailTo parameter is set.</p> <p>e.g. #_ NextAction 4 _#</p>

Save the PDF File

The following parameter causes pdfMachine to automatically save the resultant PDF file to the specified location.

Parameter	Description
SavePdf	<p><i>Argument:</i> Path to the location to save the PDF file</p> <p>e.g. #_ SavePdf C:\savedFileHere.pdf _#</p>

Inserting or Appending PDF Files

The following parameters insert or append files into the resultant PDF file .

Parameter	Description
AppendPdf	<p><i>Argument:</i> Path to the PDF file that is to be appended.</p> <p>e.g. #_ AppendPDF c:\somefile.pdf _#</p> <p>Multiple appendPdf parameters can appear in the file which will result in multiple PDF's being appended.</p>
InsertPdf	<p><i>Argument:</i> Page number after which to insert (0 to insert at the start of file), path to the PDF file to insert.</p>

Encryption

The following parameters cause pdfMachine to enable encryption and to set the appropriate passwords in the resultant PDF file.

Parameter	Description
	<i>Argument:</i> Password required to open the document (a.k.a. user password).
OpenPass	e.g. #_ OpenPass mysecret _# NOTE : Set the other encryption parameters in the pdfMachine options screens. <i>Argument:</i> Permissions password (a.k.a. owner password).
PermPass	e.g. #_ PermPass mysecret _# NOTE : Set the other encryption parameters in the pdfMachine options screens.

Stationery

The following parameter overrides the current pdfMachine stationery settings. There are two settings, one for all pages and one for first page only. If you want to completely control the stationery in parameter parsing then you should specifically set both of them.

Parameter	Description
	<i>Arguments:</i> pages drawn path
pages:	Optional specify which pages the stationery is applied: "all" (default) applies the stationery to all pages of document. all first none "first" applies it to first page only. "none" turns off all stationery.
drawn:	Optional specify how the stationery is drawn: "below" (default) draws the stationery underneath the page text. below above "above" draws the stationery above the page text. none "none" turns off either the stationery for all pages or for the first page only, depending on the first argument.
path	Path to PDF file to be used as stationery.
Stationery	e.g. Set the stationery for 'all pages' to be c:\stationery.pdf and draw it on top of the page text. Any 'first page only' stationery will still be used. #_ Stationery all above c:\stationery.pdf _# e.g. Set the stationery for 'all pages' to be c:\stationery.pdf and draw it on top of the page text. Turn off any 'first page only' stationery that has been defined. #_ Stationery all above c:\stationery.pdf _# #_ Stationery first none _# e.g. Turn off all stationery. #_ Stationery none _#

Digital Signature

The following parameter causes pdfMachine to Inserts the selected digital signature at the current place in the file.

Parameter	Description	
DigSig	<i>Argument:</i> visible enabled	
	visible: show noshow	Optionally specify if signature is visible: "show" (default) shows the signature appearance as specified in the options settings. "noshow" document is signed but has no signature picture or words.
	enabled: on off	Optionally specify if signature is done: "on" (default) signs document. "off" does not sign document. Allows you to override digsig being enabled in the options.
	e.g. #_ DigSig noshow _#	
	NOTE : the DigSig parameter <i>must</i> be followed by at least one other piece of text so that the regular expression can find it. Anything other than the parameters shown above are ignored, so it is fine to just put something simple like '1'. e.g. #_ DigSig 1 _#	
	NOTE : Set up the other signature details in the pdfMachine options.	

Files Attached / Embedded within the PDF

The following parameter causes pdfMachine to attach file(s) to the resultant PDF file. The attached files can be seen in the attached files list in Acrobat Reader 6 and 7.

Parameter	Description
embed	<i>Argument:</i> Path of the file to be embedded.
	e.g. #_ embed C:\afile.pdf _# #_ embed C:\somefile.pdf _#
	Call embed multiple times to embed multiple files.

Insert Image

The following parameter causes pdfMachine to insert images into the resultant PDF file.

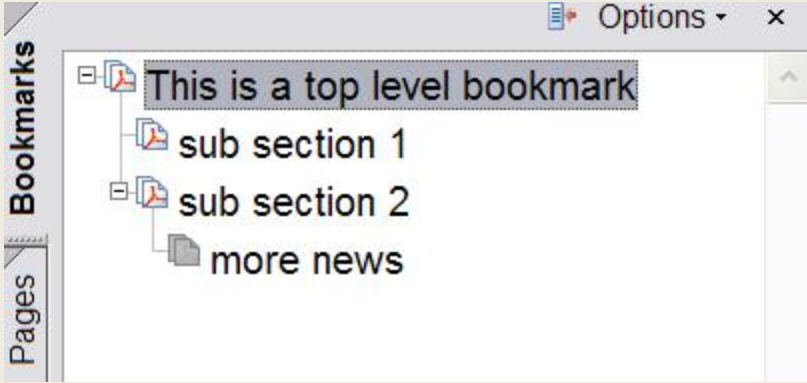
Parameter	Description
	<i>Arguments:</i> width height path
	e.g. #_ InsertImage 100 100 C:\somefile.jpg _#
InsertImage	width optionally specify the width in points for the picture in the PDF file. height optionally specify the height in points for the picture in the PDF file. path path to the image file.
	Note: 1 point = 1/72th inch
	InsertImage can be called more than once per page.

Split Document

Parameter	Description
	<i>Argument:</i> dummy argument to help regular expression parsing
	e.g. #_ SplitPDF 1 _#
	Note the SplitPDF parameter must be followed by some other text, which is '1' in this case.
SplitPDF	Splits document at the end of the current page. This should be used with extreme caution, as it may result in multiple emails being sent for a single print job. Please be sure you do adequate testing to ensure the emails are as you wish.
	Make sure that there is no more that one SplitPDF command on a single page.
	This can be useful for integrating with a legacy application, or Crystal Reports solution that creates one big print job with each customer statement on a new page.
	e.g. An accounting application may print out a number customer invoices, one after the other in one big print job. Normally this would generated 1 large PDF. However, using a combination of "SplitPDF" and "email" parameters each customer would be emailed a unique invoice belonging to them.

bookmark

Parameter	Description
	<i>Argument:</i> bookmark name\sub bookmark name
bm	A back slash separated list of heading names, forming a table of contents or bookmark hierarchy.
	Bookmarks provide a table of contents and usually represent the chapters and sections

Parameter	Description
	<p>in a document.</p> <p>Bookmarks appear in the navigation pane of adobe reader. When a bookmark is clicked, the reader will be presented with the section where the "bm" command was placed.</p> <p>e.g</p> <p>#_bm This is a top level bookmark _#</p> <p>#_bm This is a top level bookmark\sub section 1 _#</p> <p>#_bm This is a top level bookmark\sub section 2\more news _#</p> <p>Produces PDF with a bookmarks window in Adobe Reader:</p> 

Print

Parameter	Description
	<p><i>Argument:</i> printer name</p> <p>Used to print to a secondary printer.</p> <p>This could be useful if a hardcopy is desired as well as the PDF. If the word "default" is used for the printer name the default printer is used.</p> <p>e.g 1 - Print to a specific printer name</p>
print	<p>#_print HP Office Jet v49 _#</p>
	<p>e.g 2 - Print to the default printer</p> <p>#_print default _#</p>

insert hyperlink

Parameter	Description
	<i>Argument:</i> link_text URL
	A hyperlink is created pointing to URL. The text 'link_text' will remain.
	e.g
	#_ I link to broadgun http://www.broadgun.com _#
	#_ I hi there http://www.google.com
	_#

image button locator

The 'i' parameter defines the position of the image that will be inserted into the PDF by the 'ii' command.

Parameter	Description
	<i>Argument:</i> tag
	A tag name that is used by the ii, il and ilqs commands.
	e.g
	#_ i 1 _#
	Add a Paypal 'pay now' button to your PDF
i	Using pdfMachine parameter parsing you can now create 'pay now' or 'buy now' buttons that appear on your PDF. When the button is clicked a browser is launched displaying a PayPal webpage where the transaction can be completed.
	Any image can be made into a clickable button that launches a customizable URL.
	Using pdfMachine parameter parsing, images with hyperlinks can be dynamically built.
	paypal link example.html
	paypal link example.pdf

insert image

Inserts an image into the PDF. The image is inserted at the location defined by the 'i' command.

Parameter	Description
	<p><i>Arguments:</i> tag width URL</p> <p>tag - An alphanumeric string that refers to the image location previously defined by the 'i' command.</p> <p>width - Optional. The width of the image in points.</p> <p>URL - Can be a http or https URL or a file path on the local PC. File types supported are: gif, png, jpg, bmp.</p> <p>e.g.1 #_ii 1 100 http://www.broadgun.com/somepic.png _#</p> <p>e.g.2 #_ii 2 c:\tmp\somepic.jpg _#</p>
ii	<p>Add a Paypal 'pay now' button to your PDF</p> <p>Using pdfMachine parameter parsing you can now create 'pay now' or 'buy now' buttons that appear on your PDF. When the button is clicked a browser is launched displaying a PayPal webpage where the transaction can be completed.</p> <p>Any image can be made into a clickable button that launches a customizable URL.</p> <p>Using pdfMachine parameter parsing, images with hyperlinks can be dynamically built.</p> <p>paypal link example.html</p> <p>paypal link example.pdf</p>

image link

Inserts a hyperlink into the PDF. The position and size is defined previously by the 'i' and 'ii' commands.

Parameter	Description
	<p><i>Arguments:</i> tag URL</p> <p>tag - An alphanumeric string that refers to the image location previously defined by the 'i' command.</p> <p>URL - Can be a http or https URL.</p> <p>e.g. #_il http://www.broadgun.com _#</p>
	<p>Add a Paypal 'pay now' button to your PDF</p> <p>Using pdfMachine parameter parsing you can now create 'pay now' or 'buy now' buttons that appear on your PDF. When the button is clicked a browser is launched displaying a PayPal webpage where the transaction can be completed.</p> <p>Any image can be made into a clickable button that launches a customizable URL.</p> <p>Using pdfMachine parameter parsing, images with hyperlinks can be dynamically built.</p> <p>paypal link example.html</p> <p>paypal link example.pdf</p>

image link query string

Used to build a query string for a URL. The base of the URL is defined by the 'il' command. Several 'ilqs' commands can appear all relating to the same URL.

Parameter	Description
	<p><i>Arguments:</i> tag name value tag - An alphanumeric string that refers to the image location previously defined by the 'i' command. name - Parameter name. This will be URL parameter encoded. value - Parameter value. This will be URL parameter encoded.</p> <p>Add a Paypal 'pay now' button to your PDF</p> <p>Using pdfMachine parameter parsing you can now create 'pay now' or 'buy now' buttons that appear on your PDF. When the button is clicked a browser is launched displaying a PayPal webpage where the transaction can be completed.</p> <p>Any image can be made into a clickable button that launches a customizable URL.</p> <p>Using pdfMachine parameter parsing, images with hyperlinks can be dynamically built.</p> <p>paypal link example.html paypal link example.pdf</p>

x_embed

Parameter	Description
	<p><i>Arguments:</i> basic path_to_xml_file</p>
x_embed	This defines what XML is used as a template file to embed into the PDF. If the word "basic" is used, the template is the one that is edited by the ZUGFeRD template form. Otherwise a full path to another file can be used.

X

Parameter	Description
	<p><i>Argument:</i> XML_tag_name</p> <p>This is how XML elements are set. The XML_tag_name must be unique in the XML file defined by the x_embed command.</p> <p>e.g. If the XML defined by the x_embed entry was :</p> <pre><sometag> <apples> <style></style> <quality> <type></type> </quality> </apples> <oranges> <quality> <type></type> </quality> </oranges> </sometag></pre> <p>The parameters:</p> <pre>#_ x style pink lady _# #_ x apples/quality/type fresh _# #_ x oranges/quality/type old _#</pre> <p>Would result in the following XML being embedded into the PDF:</p> <pre><sometag> <apples> <style>pink lady</style> <quality> <type>fresh</type> </quality> </apples> <oranges> <quality> <type>old</type> </quality> </oranges> </sometag></pre> <p>Note that the 'type' tag was defined in multiple places, so we needed to be more specific and include the parent tag names. For the tag 'style', it was only in one place so there was no need to include the parent tag names.</p>
x	

x_clone

Parameter	Description
	<p><i>Argument:</i> XML_tag_name</p>
x_clone	<p>This command copies the last occurring XML tag (and children) in the XML and appends it as a sibling to the XML tag. It is a mechanism for including creating collections in the XML.</p>

Examples

Sending an email

Print the following text to pdfMachine to send an email to user@broadgun.com, with the attachment called "mypdf.pdf" and the subject "pdfMachine is great" and the body "Hi, Please have a look at the attachment." (spread over 2 lines).

```
#_ email user@broadgun.com _#  
#_ emailsubject pdfMachine is great _#  
#_ EmailAttachmentName mypdf.pdf _#  
#_ Emailbody Hi,  
Please have a look at the attachment. _#  
This is the attachment text, it will appear in the PDF.
```

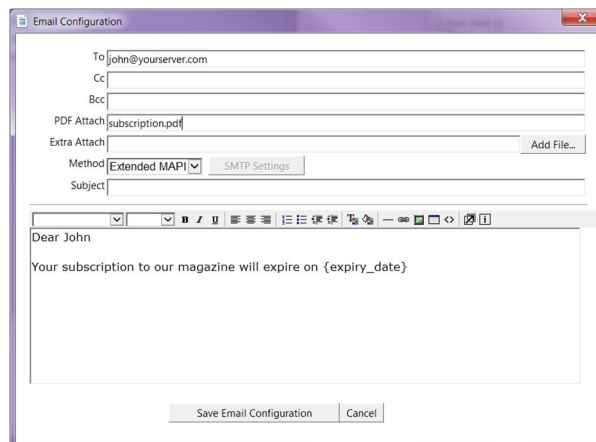
Preparing an email to be send

Print the following text to pdfMachine to launch the default email client without actually sending the email.

```
#_ emailTo user@broadgun.com _#  
#_ NextAction 4 _#  
#_ emailsubject pdfMachine is great _#  
#_ EmailAttachmentName mypdf.pdf _#  
#_ Emailbody Hi,  
Please have a look at the attachment. _#  
This is the attachment text, it will appear in the PDF.
```

Sending an email with the PDF Attachment using the MergeField parameter

You can either: Set the pdfMachine options to have the email configuration as below:



Then print the following text to pdfMachine to send an email to john@yourserver.com, with the attachment called "subscription.pdf" and the subject "Subscription expires on 1st March 2006" and the body "Dear John your subscription to our magazine will expire on 1st March 2006" (spread over 2 lines).

```
#_ email john@yourserver.com _#  
#_ EmailAttachmentName subscription.pdf _#  
#_ EmailSubject Subscription expires on {expiry_date} _#  
#_ Mergefield expiry_date 1st March 2006 _#
```

Or you can do the whole thing using parameter parsing. You do not need to setup the Email Configuration in the options. You can print the following text to pdfMachine to send an email to john@yourserver.com, with the attachment called "subscription.pdf" and the subject "Subscription expires on 1st March 2006" and the body "Dear John your subscription to our magazine will expire on 1st March 2006" (spread over 2 lines).

```
#_ email john@yourserver.com _#  
#_ EmailAttachmentName subscription.pdf _#  
#_ EmailSubject Subscription expires on {expiry_date} _#  
#_ EmailBody Dear {first_name}  
Your subscription to our magazine will expire on {expiry_date}. _#  
#_ Mergefield first_name John _#  
#_ Mergefield expiry_date 1st March 2006 _#
```

Appending PDF file

Print the following text to pdfMachine to append the contents of the file 'one.PDF' and 'two.pdf' into the resultant PDF.

```
#_ appendPdf c:\one.pdf _#  
#_ appendPdf c:\two.pdf _#
```

Put any text here , this forms the main pdf.

Inserting PDF file

Print the following text to pdfMachine to append the contents of the file otherPDF.PDF into the resultant PDF at the start of the file.

```
#_ insertPDF 0 My Documents\otherPDF.pdf _#
```

Put any text here - this will appear after the contents of the file otherPDF.pdf

Attaching/Embedding files

Print the following text to pdfMachine to embed files in the resultant PDF.

```
#_ embed c:\somefile.txt _#  
#_ embed c:\anotherfile.txt _#
```

Put any text here - this will appear as the contents of the PDF file. The PDF file will have an "attachments" window containing the two text files.

Splitting single print job into multiple emailed documents - SplitPDF

Print the following text to pdfMachine to send two emails.

```
#_ email john@yourserver.com _#  
#_ emailsubject hello, here is the news for john _#  
#_ splitPDF 1 _#  
Customer Name: John  
Amount Owed: $100  
Date Due: 23 Jan 2006  
..  
..  
(make sure there is a page break before this next text)  
  
#_ email dave@yourserver.com _#  
#_ emailsubject hello, here is the news for dave _#  
#_ splitPDF 1 _#  
Customer Name: Dave  
Amount Owed: $200  
Date Due: 23 Jan 2006
```

ZUGFeRD e-invoicing

ZUGFeRD is a German e-invoicing standard. A ZUGFeRD PDF is a PDF/3-A compliant PDF file that is a visual invoice, just like any other. It also contains structured invoice data in an embedded XML document that can be processed by ZUGFeRD compliant applications. For details, please go to www.ferd-net.de

What follows is an example set of parameters that will produce a ZUGFeRD XML when printed to pdfMachine. The XML tag names are all taken from the ZUGFeRD specification.

Note: No validation is performed on the XML, so it's up to you to make sure the field values are valid.

```
##_x_embed basic _# // embed basic ZUGFeRD profile

// invoice id and dates
##_x rsm:HeaderExchangedDocument/ram:ID 2323 _# // unique invoice ID
##_x ram:IssueDateTime/udt:DateTimeString 20140711 _#
##_x ram:OccurrenceDateTime/udt:DateTimeString 20140711 _#

// set the totals
##_x ram:LineTotalAmount 845.00 _#
##_x ram:ChargeTotalAmount 0 _#
##_x ram:AllowanceTotalAmount 0 _#
##_x ram:TaxBasisTotalAmount 845.00 _#
##_x ram:TaxTotalAmount 160.55 _#
##_x ram:GrandTotalAmount 1005.55 _#
##_x ram:DuePayableAmount 1005.55 _#

// line items
##_x ram:LineID 1 _#
##_x ram:BilledQuantity 1 _#
##_x ram:LineTotalAmount 800 _#
##_x ram:SpecifiedTradeProduct/ram:Name Pink Hammers _#

##_x_clone ram:IncludedSupplyChainTradeLineItem _# // copy previous line item
##_x ram:LineID 2 _#
##_x ram:BilledQuantity 1 _#
##_x ram:LineTotalAmount 100 _#
##_x ram:SpecifiedTradeProduct/ram:Name Blue Nails _#

##_x_clone ram:IncludedSupplyChainTradeLineItem _# // copy previous line item
##_x ram:LineID 3 _#
##_x ram:BilledQuantity 2 _#
##_x ram:LineTotalAmount 105.55 _#
##_x ram:SpecifiedTradeProduct/ram:Name Green Widgets _#
```
