



PDF Tag Suite v2.0

For Lasso Professional 6 / Mac OS X

User Guide and Installation

Created By ExecuChoice.net

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Introduction

Thank you for choosing the ExecuChoice PDF tag suite. While this product is primarily free, I would like to call it “Donation Ware”. Any money earned will be used to fund future development. The suggested minimal donation is 99\$ (USD). Please contact me if you would like to donate or be a sponsor. The work on this project has been quite extensive and time consuming. In this guide we will cover the complete usage and provide some examples of these tags. This new set of tags replaces the [HTMLtoPDFto...] tags. All tags are completely rewritten from scratch and have many new features. These tags were designed to bridge the gap between what Lasso provides and what is necessary to encompass all PDF functions. There are three basic methods to making PDFs. Originally people tried the ole string_replace method but this does not work. There is a little thing called the xref table which maps out locations and lengths of everything in the PDF. It is a hit or miss game and not a guarantee. So, Below are your only options :

- You can use Lasso’s built in PDF tags and manually draw the PDF. This is very time consuming and slow. Lasso uses iText which is Java based. To draw a full PDF can take ridiculous amounts of code not to mention many CPU ticks to do it. In a web environment described this is the least efficient method.
- The [PDF_fromHTML] tag described in this PDF is by far the fastest. It is based on HTMLDOC which is a C based application. It works by taking a Lasso page which may contain dynamic data and convert it into a PDF. This is VERY fast. It does, however, have a small draw back. The current version of HTMLDOC is limited to basic HTML and has no CSS support as of yet.

It is in beta version, but is not stable enough for this release. In the interim, it is necessary for the use of basic HTML font="xxx" type tags. HTMLDOC currently supports the basic and most common fonts used for PDFs. Future plans for HTMLDOC will support CSS and embedding fonts. In the event that EasySW, the maker of HTMLDOC, is not able to get a new release out soon supporting CSS, I will switch to a different back end, "html2ps" to handle HTML pages written with CSS.

- This last option is faster than first option but not as fast as the second option. This one, however, offers a more elegant solution. Simply design a PDF in your favorite application and then use Adobe Acrobat to place form fields on your PDF. Then use the included tags to populate the fields and save it. Options are built in for streaming, printing and faxing. This is by far the most efficient method that guarantees your PDF will look the way YOU want it.

Please be sure to read all pages in this manual as there are many notes and examples.

About the Installer

This section describes the components of the ExecuChoice PDF Suite that have been installed on your system.

The installer will be looking for the following path:

/Applications/LassoProfessional6

If you have changed this path then you will need to make an alias of it with the proper name so that the installer will know where to look. It will be installing several items, some in the hidden UNIX directories.

- eFax software/command line tool /usr/local/bin
- fax4CUPS PPD drivers and back-ends
- Custom LCAPI module – EC_Helper
- EC_PDF_Suite_V20.LassoApp
- EC_pdftotext command line tool
- EC_pdftohtml command line tool
- EC_pdfinfo command line tool
- HTMLDOC software/command line tool
- HTMLDOC PDF manual
- EC_PDFSuite.PDF manual
- EC tool kit script
- EC_iText.jar – A custom build of iText by author Paulo Soares

Items 6, 7 and 8 are custom builds of the open source XPDF package. The installer will also enable the “at” command line tool and SMB printing. In enabling the “at” command, which is an extension of the cron task, a process will be performing every 5 minutes to check for any tasks set to be performed. While on a server this is fine and expected. The

EC Tool Script will enable you to disable this feature for usage of these tags on a laptop while doing development. Doing so will prolong battery charge. However, any temporary folders created by [PDF_toHTML] will not be deleted until “at” is activated again or you manually delete them. It is imperative that the lasso user has read/write permissions on any folders/files where the tags will be accessing.

Included in this script is a tool for removing or placing protection placed on the [PassThru] tag installed by previous installations of the deprecated tag set [HTMLtoPDF]. [PassThru] is no longer needed nor installed in this installation. It is, however, available in a separate installer at the ExecuChoice website.

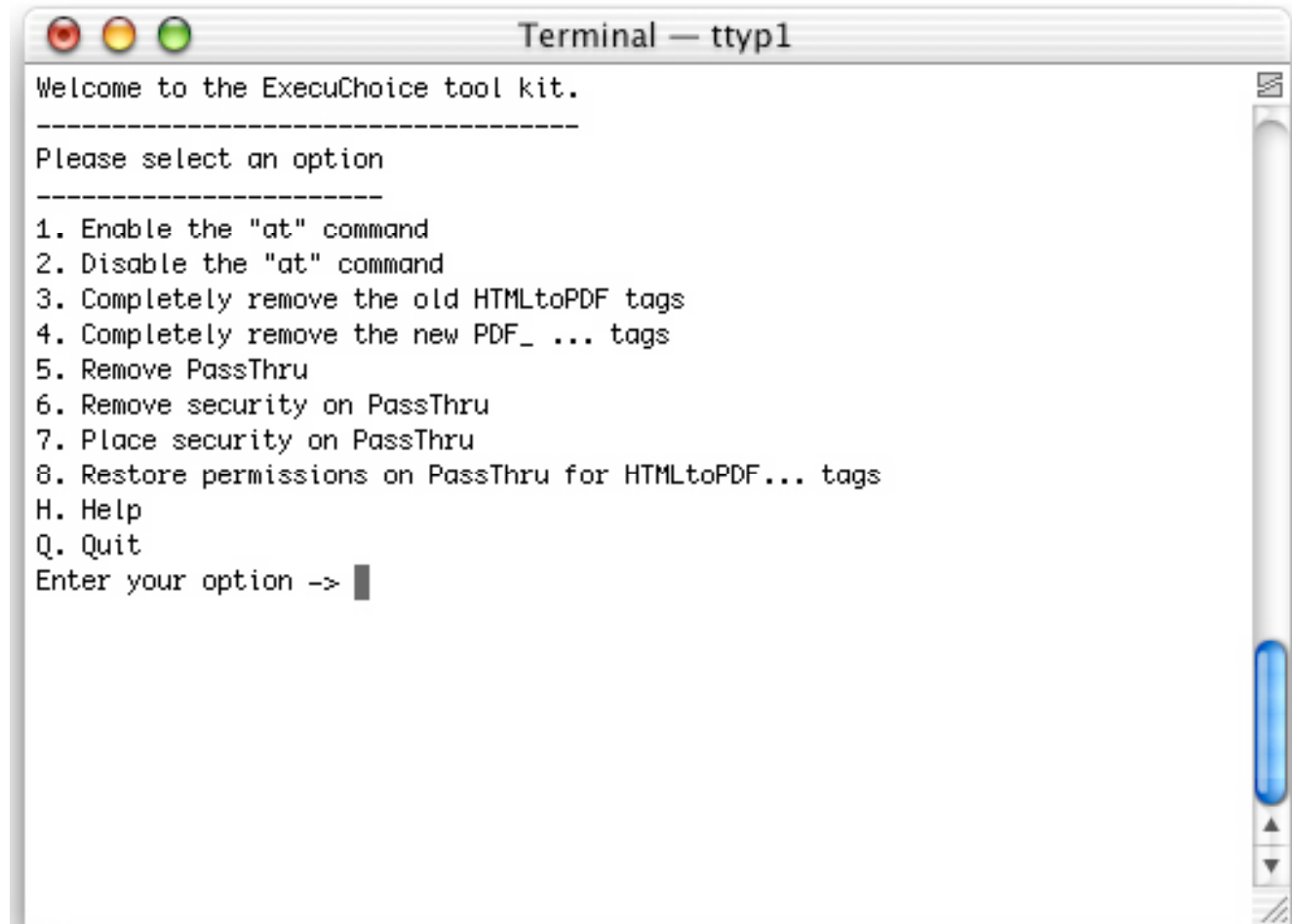
The following is the line of the /etc/crontab file which will be uncommented to make the expire feature of the [PDF_toHTML] tag work correctly

```
##*/5 * * * * root /usr/libexec/atrun
```

If you have removed this line then you will need to add it, uncommented, to make this feature work correctly. If you have never touched this file then you have nothing to fear.

When you initially run the installer you will realize it's a meta installer where it is made up of multiple packages. If you click the “customize” button you will see the list of packages. Of course the PDF Suite is required but you will see everything else is optional. Ghostscript is required for the [PDF_toHTML] tag when doing detailed PDFs. The included Ghostscript is ESP GS 7.05.6 and I recommend it over GNU GS as it includes extra features. Also is the latest GIMP-Print drivers. In previous installers efax and the CUPS backends were included in the PDF suite but in this version they are still installed unless you uncheck that install in the list. For all normal purposes I recommend just doing the complete install.

Shell Scripted EC Tool Kit



The above screen shot shows the new command line tool kit which has been included in this package. A great deal of time has been put into this script to make sure it encompasses any needs you may have. Obviously there are options which do not pertain to this package, but are none the less useful. Options 1 & 2 have been discussed in this manual, and are also described in the “Help” option of the script.

The deprecated [HTMLtoPDF] tags would install the [PassThru] tag and rely on it to communicate with HTMLDOC. During the installation, the installer would also secure the [PassThru] tag so that the [HTMLtoPDF] tags were the only ones with access. This script has the ability to make [PassThru] available to everyone or limit access to specific

groups. This is an option missing in the Lasso Admin 6.04. LP6 is missing the option to restrict access to custom, LCAPI and LJAPI tags. It is a documented bug/missing feature and will be fixed in a future release. So, for now, use this utility to do it for you. Future plans on this will be to add a script to check for updates and install them live for you! As always though I am open to suggestions and feature requests.

[PDF_fromHTML] – Replaces **ALL** [HTMLtoPDF] tags.

ex : [PDF_fromHTML:-URL='http://yourdomain.com/page.lasso',
-Output='web',-SaveAs='myfile.pdf']

-URL and/or -File

Any multiples of these may used. Keep in mind that with **-File** you may only read/write to/from your site's directory. A file of /test.html will be assumed to be in the root of your site.

-Output='xxx'

Below the options for **-output** are as follows as well as the function of **-SaveAs**.

'Web'

-SaveAs='somefile.pdf'

This is required when force downloading a PDF to the browser.

[PDF_fromHTML:-file='test.html',-saveas='test.pdf',
-output='web']

In the above example this will grab the file test.html in the root of the site, convert it to a PDF and then force download it in the client's browser.

'Disk'

-SaveAs='somedir/somefile.pdf'

This is required when saving a PDF to your disk.

[PDF_fromHTML:-file='test.html',
-saveas='pdf/test.pdf',-output='disk']

The above example will save the html file as a PDF in the directory "PDF" in the root of the site as "test.pdf". You may save files in any subdirectory in your site's root. There is also an option to save the

PDF as a PS file. Simply make the name “something.ps” and it will be saved as a postscript file.

‘Printer’

```
[PDF_fromHTML:-file='test.html',-printer='epsonc80n',  
-output='printer']
```

Requires a valid cups name. See the section on configuring CUPS for a how-to approach.

‘Fax’

```
[PDF_fromHTML:-file='test.html', -fax='efax', -number=  
'132-4567', -output='fax']
```

A valid CUPS Fax name.

ex : -Fax='efax', -Number='1234567890'

If none is provided it will assume efax which is also included in this install. The use of fax requires -Number for the telephone number. It is up to you to ensure that you have a 1 and / or any area codes necessary. This install includes CUPS back ends for efax and HylaFax.

-Options

These are any of the HTMLDOC options seen on page 8-2 of the accompanying `htmldoc.pdf` manual.

-PS

Using this option while printing will print the file as PS and not PDF.

-Raw

This will return the RAW PDF file to the current page.

NOTES:

These tags are NOT for processing already made PDF files. Watch for an upcoming CUPS tag set to handle all processes of printing.

[PDF_GetInfo]

ex : [PDF_GetInfo:-File='somefile.pdf']

Required:

-File='somefile.pdf'

This can be any PDF file on your drive. The path to the PDF will be from the root of your site.

Optional:

-Raw

This will make the tag dump raw info to your screen and not use the custom type for getting information. If you want you may format the tags output manually. For example:

The code below will format the text with tabs and all.

```
<pre>[PDF_GetInfo:-file='some.pdf',-Raw]</pre>
```

This code will just take the output and put breaks between lines.

```
[PDF_GetInfo:-file='some.pdf',-Raw,-EncodeBreak]
```

This tag declares a custom type thereby allowing you methods of extracting exact info about your PDF. The following are available to you.

Title, Creator, Producer, CreationDate, Tagged, Pages, Encrypted, PageSize, FileSize, Optimized and PDFVersion.

Example:

```
[var:'PDF'=(PDF_GetInfo:-file='somefile.pdf']
```

```
[$PDF->Title] will give you the title of the PDF.
```

```
[$PDF->Creator] will give you the creator of the PDF.
```

[PDF_toHTML]

ex : [PDF_toHTML:-File='somefile.pdf']

Required:

-File

The PDF file to be used. (path from site's root)

Optional:

-Detailed & -Expire

If the option **-Detailed** is selected it will create a full mirror of the PDF in html including any graphics and all. This will create a temp folder on your server in the root of the site containing all the html files. The option **-Expire='xxx'** will control how many MINUTES before the html files are erased. This is controlled by the "at" command at the OS level. If you use the EC tools to disable at for a laptop testing situation be aware that the files will not be erased. You may also specify **-Expire=Never** and the html files will not be deleted. See **-Redirect** and **-ReturnURL**

-SaveAs ex: -SaveAs='xxx'

Should you desire to make the PDF into html and save it with a specific path and name you may do so. Be sure to specify the **-Expire** to control whether or not the folder is deleted.

-Redirect and -ReturnURL

These are rather unique. If you generate a PDF into html and specify it to be saved then you will more than likely use these options. When creating a detailed html file you need to use a temp folder because

there are individually linked files with background images. If you specify either of these after the execution of the tag it will perform that action. So, if you use **–Redirect** it will redirect the browser to the url which will access these files. If you use **–ReturnURL** it will give you a url to access them. This may be handy to put into a link.

-FirstPage

The first page of the PDF to start conversion.

-LastPage

The last page of the PDF to stop conversion.

-Silent

Stop any error reporting.

-Exchange

Exchange .PDF links by .html **Advanced Users**

-NoImages

This option is for stopping any images from being included in html.

-NoFrames

This option is for stopping the framed version of a multi page PDF from being converted.

-Zoom

Use this option for zooming in on the PDF. Default is 1.5

-XML

This will output the PDF as xml instead of html.

-HiddenText

Used for displaying any hidden text in the PDF.

-NoMerge

Used to stop merging paragraphs. (Use only if needed)

-BGImageType

This is for selecting a background image format. By default the tag uses jpeg which is fastest but you may use others. These are Ghostscript devices. This should **only** be changed by **advanced** users.

-BGColor

You may use this to change the default background color of html pages generated.

-FBGColor

Change the background color in the links frame in a detailed rendering.

-FBGImage

Set a background image for the links frame in a detailed rendering. This will resolve the link for the image from the root of the site.

-UserPW

The user password of the PDF. You will not need this unless it has been encrypted.

-OwnerPW

The user password of the PDF. You will not need this unless it has been encrypted.

Future Plans:

Plan to add an option **-URL** where it will download the PDF to a buffer and pump it directly into this tag.

Notes:

I was asked why this tag. There is a good reason. Some people don't want to download a PDF or don't have the software to view a PDF. In one example you could use [PDF_fromHTML] to build an archive of monthly reports and then use [PDF_toHTML] for looking at this archive of PDFs at a later date. You could use [File_ListDirectory] to get a list of these archived PDFs and then place them in links. On the response page you plug the PDF name into the [PDF_fromHTML] page and view the report for that month.

[PDF_toTEXT]

ex : [PDF_toText:-File='somefile.pdf',-SaveAs='somefile.txt']

Required:

-File

The source PDF. This may include the and like all other tags is restricted to the path from the site's root

Optional:

-SaveAs

The text from the PDF may be saved to disk in a text file using this option. This option like all other tags is restricted to the path from the site's root. See NOTES for more information.

-FirstPage

The first page of the PDF to start conversion.

-LastPage

The last page of the PDF to stop conversion.

-EOL

This is for **advanced** users. end-of-line convention (unix, dos, or mac)

-UserPW

The user password of the PDF. You will not need this unless it has been encrypted.

-OwnerPW

The user password of the PDF. You will not need this unless it has been encrypted.

Notes:

If you do not specify an option for saving the file it will return the results to the screen. You may also assign this to a variable.

```
[var:'PDF'=(PDF_toText:-file='somefile.pdf')]
```

Future Plans:

Plan to add an option `-URL` where it will download the PDF to a buffer and pump it directly into this tag.

[PDF_SetFieldValue]

ex : [PDF_SetFieldValue:-PDFsrc='myfile.pdf',-SaveAs='mynewfile.pdf',
-field='myfield',-value='myvalue']

Required :

-PDFSrc

The source PDF.

-Field

The field in the PDF you want to populate.

-Value

The value you want to populate the field with.

Optional :

-SaveAs

If you either specify **-Output='disk'** or do not specify a target

-SaveAs will be the path from the site's root to save the PDF.

If you specify **-Output='pipe'** then **-SaveAs** will be the application to pipe the results to. For printing it would look like **-SaveAs='lp -d printername'** or for faxing

-SaveAs='lpr -P efax -J phonenumber'

If you specify **-Output='web'** then **-SaveAs** will be the name to save the PDF as on the client's browser.

-Output

-Output can be 'web', 'disk' and 'pipe'. If 'pipe' is specified **-SaveAs** is the app to be piped, usually lp, with all the options following. The default is 'disk'.

-Flatten

This will remove the fields from the PDF but place the text in place of the fields. Some PDF viewers are not capable of viewing PDF with fields in the PDF. So, if you don't need the info to be editable then just use this option.

Notes:

If you have multiple fields in the PDF which you want to populate you may do this by specifying multiple fields and values.

`-field='xxx',-value='xxx',-field='xxx',-value='xxx'`

This tag like some of the others below are based on iText and have a slightly different syntax than the earlier tags but this will be more standardized in future releases.

[PDF_GetFields]

ex : [PDF_GetFields:-PDFSrc='somefile.pdf']

Required:

-PDFSrc

The source PDF. As all other tags, paths are resolved from the root of the site.

Notes:

This will read in a PDF and return a list of all fields contained within.

[PDF_MergeFDF]

ex : [PDF_MergeFDF:-PDFSrc='somefile.pdf',
-FDFSrc='somefile.fdf',-SaveAs='mynewfile.pdf']

Required :

-PDFSrc

The source PDF. (path from site's root)

-FDFSrc

The source to the FDF file. (path from site's root)

Optional :

-SaveAs

If you either specify `-Output='disk'` or do not specify a target

`-SaveAs` will be the path from the site's root to save the PDF.

If you specify `-Output='pipe'` then `-SaveAs` will be the application to pipe the results to. For printing it would look like `-SaveAs='lp -d printername'` or for faxing `-SaveAs='lpr -P efax -J`

`phonenummer'` If you specify `-Output='web'` then `-SaveAs` will be the name to save the PDF as on the client's browser.

-Output

Options can be 'web', 'disk' and 'pipe'. If 'pipe' is selected then

`-SaveAs` is the app to be piped to, usually lp, with all the options following. The default is 'disk'.

-Flatten

This will remove the fields from the PDF but place the text in place of the fields. Some PDF viewers are not capable of viewing PDF with fields in the PDF. So, if you don't need the info to be editable then just use this option.

Notes:

This tag is for reading in a PDF and an FDF file and merging them together into a fully populated PDF.

[PDF_ExportFDF]

ex : [PDF_ExportFDF:-PDFSrc='somefile.PDF',-SaveAs='somefile.fdf']

Required :

-PDFSrc

The source PDF. (path from site's root)

-SaveAs

The name of the FDF file to be saved. (path from site's root)

Notes:

This tag will read in a PDF and extract any populated form fields and placed them into an FDF form.

[PDF_MakeFDF]

ex : [PDF_MakeFDF:-SaveAs='xxx',-field='xxx',-fieldtype='xxx',-value='xxx',
-field='xxx', -fieldtype='xxx',-value='xxx']

Required:

- SaveAs** The name of the FDF file to be generated and saved.
- Field** The name of the field to be specified in the FDF form.
- FieldType** The type of FDF field to be generated.
- Value** The value of the preceding field name in the FDF form.

Note:

Multiple fields and values can be specified. Example:

-field='xxx',-fieldtype='xxx',-value='xxx',
-field='xxx',-fieldtype='xxx',-value='xxx'

This tag is used for make a FDF file for you with the information you provide to it.

More information can be found on the FDF and PDF formats at

<http://www.Adobe.com/>

Examples by Rich Fortnum

ExecuChoice PDF Generation Tags
by Rich Fortnum, Viaduct Productions
<http://www.viaduct-productions.com>
July 2003
Somewhere in Toronto
27°C

Steffan's tags introduce a very efficient way of generating PDFs from web pages. This little treatise is a description of how you can implement his new v2.0 tags to stream PDFs on the fly without having to generate the file first.

Three Page Concept

This solution follows logic through 3 individual pages. These pages can be incorporated into all solutions, including Corral Method Onepage systems, which is a favorite of mine. As Onefiles also need to carry session information and demand we throw parameters around through links, we'll get into that aspect later. First, let's discuss the Three Page Concept to show how all this works.

Because of the imaging technologies Steffan has brought to Lasso with his tags, we are essentially telling our system to make a PDF of a web page we instruct it to image. That page, we will call Page_3. Understandably, these PDFs have LDML code in them, so they probably change depending on what parameters we send to it, or perhaps from other items in our solution.

Page_1 is the page that has the link to initiate such a solution. It would instruct params thrown to Page_2 (discussed after), which would instruct the system to throw a generated Page_3 at us, streamed as a download. Depending on our browser settings, it will show up in a browser window, or appear as a download.

Page_2, is essentially the hidden instructions, constructed of Steffan's tags, to say what page 3 should include, and the fact that it should be served as a stream, on the fly generation, to the client.

Capice? Let's put some code down.

Page_1 Example

`Generate PDF`

This is a link that points to the Page_2. Of the Three File Concept, it is the only page we see. Once we click the link, we get a PDF thrown at us.

Page_2 Example

```
[var: 'myHTMLDOC_Options' = '--landscape --left 5 --right 5 --top 5 --bottom 5
--fontsize 8 --headfont Helvetica_Bold --headfontsize 10
--no-compression --no-strict --no-toc --size Letter']
```

HTMLDOC is the background imaging technology that says how the PDF is generated. Options thrown to HTMLDOC essentially tell the system what we'd like to see in the resulting PDF, such as margins, fonts, header and footer requirements, etc. These 'options' are quite full and flexible, and I recommend you review them in the HTMLDOC PDF that comes with the tags. One thing I should say is that the resulting html page (Page_3) has to fit into the requirements we set within these options, or else you'll be trying to fit a watermelon into a Ziploc bag, and that isn't going to work. Dragging your resulting PDF into BBEdit will show you the errors that you come up with. Reducing table widths might be a solution. When in doubt, modify your Page_3 so that it's a simple page, and at that point, send it to PDF generation to test the system. You can always modify your Page_3 after. In fact, it's good practice that your Page_3 is working before you try forcing a PDF, otherwise you'll think there's something wrong with the tags, when you might be messing up your actual image. Deciphering between the two errors is important, and this way is the best way to troubleshoot.

```
[var: 'myURL' = 'http://g4.local/project/mypage.lasso?showpage=bluejays']
[var: 'myName' = 'pdf_test.pdf']
```

These vars are built so we can do two things: Modify our options that we have to throw to the tags before required, and so that we can build them dynamically using vars and session information. More on that later. In this Onefile example, bluejays is the instruction to insert the bluejays.lasso file into the body of the Onefile. If you are not using a Onefile system, then it would just be mypage.lasso that you would want to image.

```
[PDF_fromHTML: -options=($myHTMLDOC_Options),
                -url=($myURL: -encodenone), -SaveAs=($myName)]
```

So now you see the basic structure of the tag. It's that simple. Options are set so the imaging technology knows what to do, the **-URL** is essentially Page_3, the page we want to turn into a PDF, and a forced name to save it under. Simple.

Page_3 Example

Well, nothing really to put here. It can be anything. As for now, let's just put a static html page in here. So, this time around, we get the same PDF every time. So now you know how to get a PDF to work.

URL VARS

Since our final Page_3 is one that we'd like to have dynamic information showing, we use Lasso to do this. Inlines could have parameters thrown at it, but we'd have to somehow get params through these 3 files to properly show what we wanted. This is how you do it:

Page_1 has a URL with parameters in it:

```
<a href="http://g4.local/project/page_2.lasso?flavour=
strawberry&scoops=2">Generate PDF</a>
```

Page_2 takes those params, and has to send them to Page_3 so it knows what to do. Again, separate variable building is useful to reduce complexity and confusion for the developer:

```
[var: 'todaysFlavour' = (action_param: 'flavour')]
[var: 'todaysScoops' = (action_param: 'scoops')]
[var: 'myURL'='http://g4.local/project/mypage.lasso?showpage=icecream&
    flavourchoice=' + ($todaysFlavour) + '&scoopcount=' + ($todaysScoops)]
[var: 'myName' = 'pdf_test.pdf']
```

The URL now has the 3 parameters we throw to Page_3 so that the dynamic LDML page can be generated: showpage so we have the Onefile body called, flavourchoice carries what flavour we wanted from Page_1, and scoopcount carries our integer.

Page_3 receives those parameters, and deals with them accordingly, probably changing those action_params into vars first off, so that inlines can use them as often as they need.

SESSION USAGE

As we develop solutions, we find sessions become really useful. Similar implementation is used here as we did with URL vars usage. Building proper syntax is achieved using the same methodologies, so that we can have a PDF page validated by a session. Carrying the valid current session information from Page_1 through to Page_3 is our goal.

Page_1's link now requires a dynamically built session structure:

```
<a href="http://g4.local/project/page_2.lasso?flavour=strawberry&scoops=2&
-session=[${Session}:[Session_ID: -Name=(${Session})]">
    <b>Generate Report</b></a>
```

As you can see, we structure our session as we need to:

SESSION_NAME:SESSION_ID. These two parameters come from our session variable information previously assigned for session management. Make sure not to leave out neither the session name, nor the session id. It will confuse you when troubleshooting where the error is coming from, because you will request a page where your session is not valid. Again, testing your Page_3 before asking it to be generated as a PDF, is always good practice. You can accomplish this by aiming your Page_1 URL directly to Page_3, bypassing the request of Page_2 to generate the PDF.

Page_2

The URL var changes to incorporate session structure:

```
[var: 'myURL' = ('http://g4.local/project/mypage.lasso?showpage=
icecream&flavourchoice=' + ($todaysFlavour) + '&scoopcount=' +
($todaysScoops) + '&-session=' + ($Session) + ':' + ($SessionID))]
```

End result is a PDF demanded by something 2 pages away, while throwing params and keeping session structure integrity intact.

Good luck with the tags, and let Steffan know what you think of his tags.

Configuring CUPS for printing and faxing.

The efax printer queue has already been set up by the installer but you will need to figure out the name of the printer. There are a couple of ways. You can do it through the Mac OS X Print Center or directly thru CUPS (<http://www.cups.org/>) the built in print spooler. You will need the printer name for the PDF_fromHTML tag to know where to send the document. Don't be fooled by the name of this tag when used for printing. The pages must be converted to PDF before being printed or faxed.

To verify printer name via the Print Center :

Go into the /Applications/Utilities/ folder and open the app called Print Center. If the application does not present a window with a list of printers in there then go to the "Printers" menu and select "Show Printer List". In the window you should see the new "efax" printer and any other printers you already have configured. Let's say that you have a printer called "Foo" then in the [PDF_fromHTML] tag you would have -Printer='Foo'. This should be pretty simple. I have enabled SMB printer sharing upon install of these tags so you can even print directly to printers attached directly to a windows machine! If you just click add you will not have the option to add a SMB printer but do it this way :

1. Hold down the option key while clicking the Add button in the print center.
2. Select Advanced
3. From the device drop down select Windows Printer via Samba
4. Enter a name for the printer (this will also be used in -printer you can have as many printers attached as you want!)
5. In the device URI you have a few ways to enter this. If there are no passwords used then you will have a URI like this "smb://username@machinename/printername" Where you see "username" do not change that to anything. Leave it as it is. On your MAC OS X

10.2+ machine open this URL <http://127.0.0.1:631/sam.html> - 8 7 and read it for more information regarding this.

6. Select a printer model. By a default install of Mac OS X 10.2 there really are FEW choices for printers so I have included the latest GIMP-Print drivers in the installer. You now have over 300 options on PPD drivers and there are some really cool ones in there! More can be found at <http://www.linuxprinting.org> .

7. When done with that click Add and then you are ready to go!

To verify by using CUPS (the built in print spooler) :

1. Open the following URL in a browser <http://127.0.0.1:631/printers>
2. Here you will see a list of all your printers.
3. Choose one and remember the name so you can use it in the [PDF_fromHTML] tag when printing.

There is a great deal of documentation about CUPS there for you to read. Its really cool knowing that you can print to ANY printer! Hey, you could even print directly to mine! More info on CUPS : <http://127.0.0.1:631/documentation.html>

Included Software and Source Locations

HTMLDOC is from Easy Software -

<http://www.easysw.com/htmldoc>

efax is from Casas Communications Engineering

<http://www.cce.com/efax/>

fax4CUPS is from

<http://gongolo.usr.dsi.unimi.it/~vigna/fax4CUPS/>

Components from XPDF

<http://www.foolabs.com/>

iText by Paulo Soares

<http://iText.execuchoice.net> <http://sourceforge.net/projects/itext>

<http://www.lowagie.com/iText/>

GIMP-Print

<http://gimp-print.sourceforge.net>

ESP Ghostscript

<http://sourceforge.net/projects/espgs> and <http://www.cups.org>

Updates to the whole PDF Suite are of course available at

<http://www.execuchoice.net/solutions>

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