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PDF Export Dialog

Specification Status	
Last Change	Jan 6, 2009
Status	Standard

Abstract

- 10 OOo 2.0.3: The PDF Export dialog gets a bunch of additional options to control how the generated PDF document opens in Adobe Reader. They are layout and magnifications options, as well as options that control the user interface of Adobe Reader itself.
- OOo 2.0.4: Security settings for PDF export dialog control the encryption level of the generated PDF. The idea is to implement encryption according to PDF version 1.4, in its basic incarnation.
- 15 OOo 2.2: Default zoom level and number of disclosed levels in bookmark hierarchy can be set.

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Contents

	Abstract.....	1
	i-Team Members.....	1
	References and Reference Documents.....	3
	Acronyms and Abbreviations.....	3
1	Detailed Specification.....	4
1.1	Content of the PDF.....	4
1.2	Dialog.....	4
1.3	First Tab: General.....	4
1.4	Second Tab: Initial View.....	6
1.5	Third Tab: User Interface.....	12
1.6	Fourth Tab: Security Settings.....	15
1.6.1	Intro.....	15
1.6.2	Implementation.....	16
1.6.3	Some words on the passwords.....	16
1.6.4	Dialog Design.....	17
1.6.5	Password Dialog.....	20
1.6.6	Notes.....	20
1.6.7	Printing permissions.....	21
1.6.8	Configuration.....	21
2	Migration.....	21
3	Configuration.....	21
4	File Format.....	22
5	Open Issues.....	22
6	Competitive Analysis.....	23
6.1	OpenOffice.org 2.0.0 – 2.0.2.....	23
6.2	Adobe Acrobat 5.....	23
6.3	Adobe Acrobat 7 – German Version.....	24
7	Document Change History.....	24
7.1	Related PDF Specifications and Documents.....	25

References and Reference Documents

Reference Document	Check	Location (URL)
> Specification Process Entry Check	Passed	N/A
Product Requirement,, RFE, issue (required)	Available	OOo 2.0.3: i61139 OOo 2.0.4: i12626 OOo 2.2: i68581
> Product Concept Document	Not Available	<Please enter location here>
> Competitive Analysis	Available	see below
Test Case Specification (required)	Available	http://www.openoffice.org/nonav/issues/showattachment.cgi/35389/pdf-export-test.html http://www.openoffice.org/nonav/issues/showattachment.cgi/37957/pdf-export.html
> Software Specification Rules	N/A	N/A
PDF Export OOo 2.0		http://specs.openoffice.org/appwide/pdf_export/PDFExport.sxw
PDF Reference, third edition Adobe Portable Document Format Version 1.4		

Acronyms and Abbreviations

Acronym / Abbreviation	Definition
OOo	OpenOffice.org
PDF	Portable Document Format
Permission password	Password of the document's owner, the person who can change the document permissions
Document Open Password	Password of the document's user, the person who can only "see" the document if she knows the user password.
iff	if and only if

25 **1 Detailed Specification**

1.1 Content of the PDF

Quote from [PDF Export - UI specification v.1.0](#):

In general the content of the PDF file is equivalent to the output generated for printing. This means that invisible objects of a document are not part of the PDF file.

30 **1.2 Dialog**

The PDF Options dialog is a modal dialog.

Compared to OOo 2.0.0/2.0.2, the PDF Options dialog is expanded by 2 additional tabs. All controls of the former dialog are move to the first tab page of the new tab control.

35 The dialog has Export and Cancel buttons at the bottom. The online help can be called with the Help button at the bottom right of the dialog.

The settings made in the dialog are persistent from session to session. They are stored in OOo's configuration. The default values are defined in the string tables below.

The dialog always opens on the first tab page.

1.3 First Tab: General

40 Changes since 2.0.4:

- added option for exporting bookmarks or not
- added option to export form fields as PDF widget annotations or as simple print type fields (like in OOo 1.1)
- moved “Use transition effects” option to “Viewer preferences” tab page.

45 – added option for PDF/A

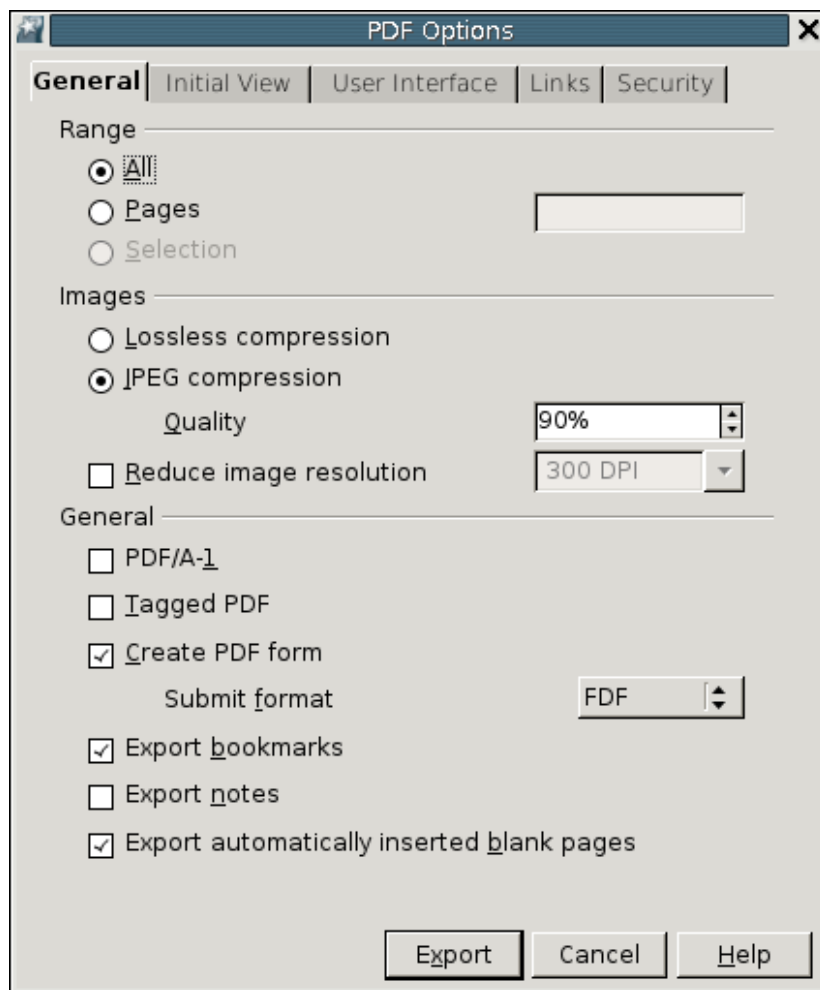


Illustration 1: First Tab (snap shot; not final yet)

Table 1: User Interface elements of Figure Illustration 1: First Tab (snap shot; not final yet)

#	Type	Properties	Comment
<#>	Dialog	Control Properties State: modal Closable: yes Close Operation: Withdraw changes and close dialog Is iconifiable: no Is maximizable: no Resizable: no Always On Top: yes	dialog title
		String English PDF Options	String German PDF Optionen
			same as Oo 2.0.2
<#>	Button	Control Properties Icon: no Enabled: yes	
		String English E~xport	String German Exportieren
			same as Oo 2.0.2
<#>	Label	Control Properties Enabled: yes	tab title
		String English General	String German Allgemein

#	Type	Properties	Comment
<#>	CheckBox	Control Properties Enabled: yes Initially Checked: yes TriState: no ToolTip Text: Other...:	
		String English Export Bookmarks	String German Lesezeichen exportieren
<#>	CheckBox	Control Properties Enabled: if "PDF/A-1" is unchecked Initially Checked: yes TriState: no ToolTip Text: Other...:	
		String English Create PDF form	String German PDF Formular erzeugen
<#>	ListBox	Control Properties Enabled: if "Create PDF form" is checked and enabled Visible Row Count: 4 Item Selected: FDF Enable Sorting by DnD: no A11Y Text: ToolTip Text:	
		String English <Enter String Here>	String German <Enter String Here>
<#>	CheckBox	Control Properties Enabled: Yes Initially Checked: No TriState: No ToolTip Text: Other...:	
		String English PDF/A-1	String German PDF/A-1

50 1.4 Second Tab: Initial View

Comment: New for OOo 2.0.3

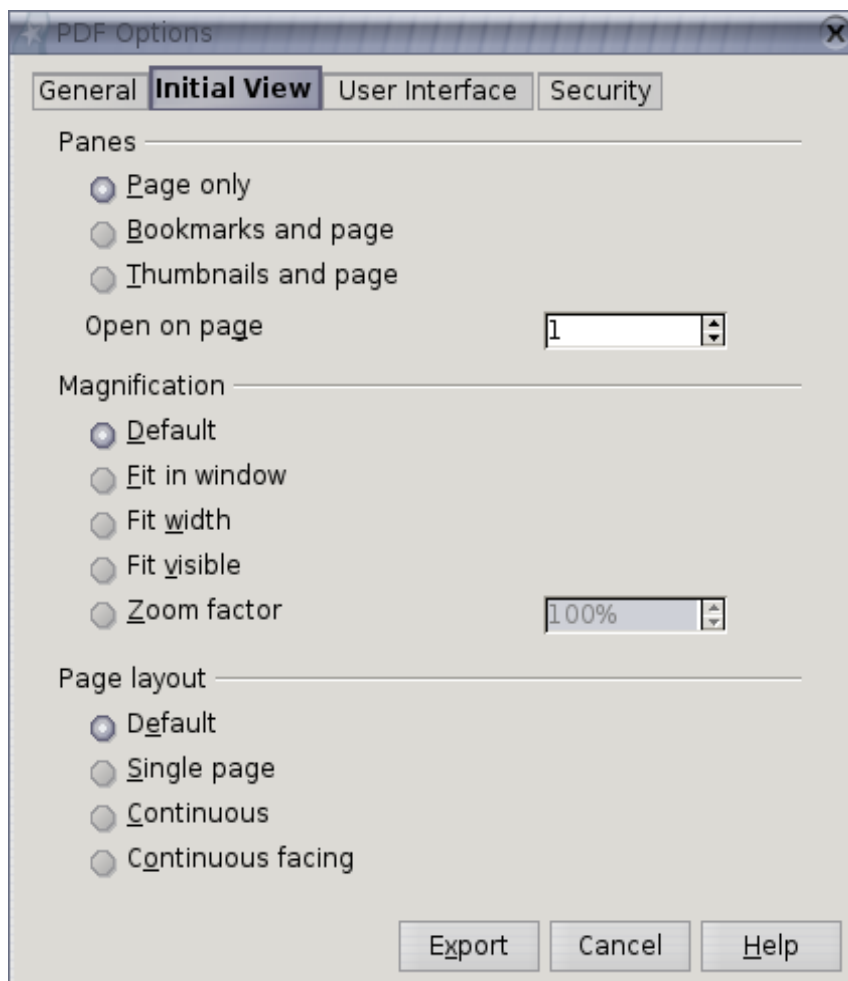


Illustration 2: Second Tab

55

The option “First page is left” is only displayed in the dialog if “Tools-Options-Language Settings-Languages-Enabled for complex text layout” is marked.

If the option is marked than the PDF is displayed in the following way:



Illustration 3: Page layout if first page is left

If the option is not visible and “Continuous facing” is marked, then the first page is displayed to the right.



Illustration 4: Page layout if "First page is left" is not marked or invisible

60

Changes since 2.0.4:

- added a zoom level option to “Magnification” section
- added an option to the “Panels” section to specify the first page that the reader application will show when it opens the exported PDF file.

65

The option “Open on page” defines the page that will be visible when the exported PDF document gets opened in the viewer application. (Comment: New for OOo 2.2)

If “Zoom factor” is selected, the initial zoom level of the PDF viewer application should be set to the specified value when the PDF file is opened. (Comment: New for OOO 2.2)

70 **Table 2:** User Interface elements of Figure Illustration 2

#	Type	Properties	Comment
<#>	Label	Control Properties Enabled: yes	
		String English Initial View	String German Anfangsdarstellung tab title
<#>	Label	Control Properties Enabled: yes	
		String English Panes	String German Bereiche
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: yes	
		String English ~Page only	String German Nur Seite
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: no	
		String English ~Bookmarks and page	String German Lesezeichen-Fenster und Seite
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: no	
		String English ~Thumbnails and page	String German Seiten-Fenster und Seite
<#>	SpinField	Control Properties Editable: yes Enabled: yes Minimum Value: 1 Maximum Value: 1 Start Value: 1 Steps: 1 Measurement unit: 1	
		String English Open on page	String German Öffnen auf Seite
<#>	Label	Control Properties Enabled: yes	
		String English Magnification	String German Vergrößerung
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: yes	
		String English ~Default	String German Standard

#	Type	Properties	Comment
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: no	
		String English ~Fit in window	String German Fenstergröße
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: no	
		String English Fit ~width	String German Fensterbreite
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: no	
		String English Fit ~visible	String German Seitenbreite
<#>	RadioButton	Control Properties Enabled: yes Initially Selected: no	
		String English ~Zoom factor	String German Vergrößerungsstufe
<#>	SpinField	Control Properties Editable: yes Enabled: iff "Zoom factor" is checked Minimum Value: 50 Maximum Value: 1600 Start Value: 100 Steps: 1 Measurement unit: % A11Y Text: ToolTip Text: Other...:	
		String English	String German
<#>	Label	Control Properties Enabled: yes	
		String English Page layout	String German Seitenlayout
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: yes	
		String English D~efault	String German Standard
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: no	
		String English ~Single page	String German Einzelne Seite

#	Type	Properties	Comment
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: no	
		String English ~Continuous String German Fortlaufend	
<#>	RadioButton	Control Properties Enabled: yes Initially Marked: no	
		String English C~ontinuous facing String German Fortlaufend - Doppelseiten	
<#>	CheckBox	Control Properties Enabled: if and only if the option "Continuous facing" is marked Initially Checked: no TriState: no	
		String English First page is ~left String German Erste Seite ist links	

1.5 Third Tab: User Interface

Changes for OOo 2.2:

- added section "Transition effects" with option to use transition effects (moved from general page)
- 75 – added section "Bookmarks" with number of visible bookmark levels when the reader application opens the exported PDF file

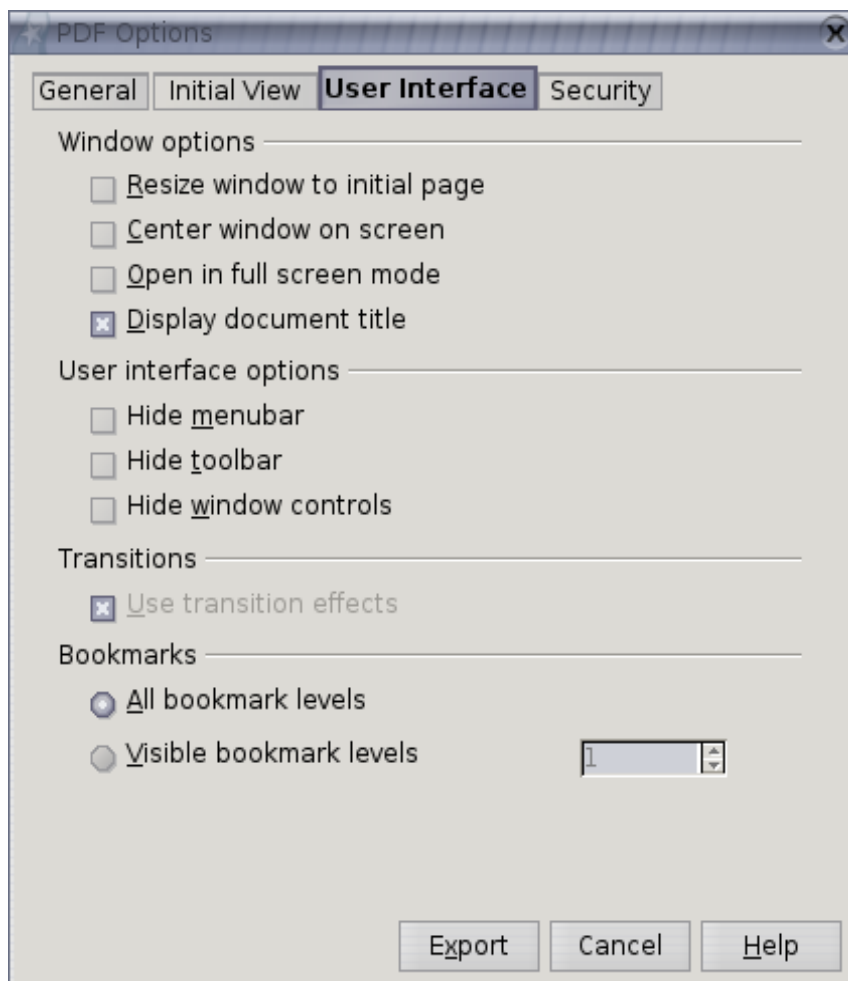


Illustration 5: Third Tab

80 **Table 3:** User Interface elements of Figure Illustration 5

#	Type	Properties		Comment
<#>	Label	Control Properties ToolTip Text: <If needed Specify text here> Acc. Descrip.: <If needed specify text here> Acc. Text: <If needed specify text here> Enabled: yes		
		String English User Interface	String German Benutzeroberfläche	tab title
<#>	Label	Control Properties ToolTip Text: <If needed Specify text here> Acc. Descrip.: <If needed specify text here> Acc. Text: <If needed specify text here> Enabled: yes		
		String English Window options	String German Fensteroptionen	

#	Type	Properties	Comment
<#>	CheckBox	Control Properties Enabled: yes Initially Marked: no TriState: no ToolTip Text: <If needed specify tip here> Acc. Descrip.: <If needed specify text here> Acc. Text: <If needed specify text here> Other...: <If needed specify here>	
		String English ~Resize window to initial page String German Fenster an erste Seite anpassen	
<#>	CheckBox	Control Properties Enabled: yes Initially Marked: no TriState: no ToolTip Text: <If needed specify tip here> Acc. Descrip.: <If needed specify text here> Acc. Text: <If needed specify text here> Other...: <If needed specify here>	
		String English ~Center window on screen String German Fenster auf Bildschirm zentrieren	
<#>	CheckBox	Control Properties Enabled: yes Initially Marked: no TriState: no ToolTip Text: <If needed specify tip here> Acc. Descrip.: <If needed specify text here> Acc. Text: <If needed specify text here> Other...: <If needed specify here>	
		String English ~Open in full screen mode String German Im Vollbildmodus öffnen	
<#>	CheckBox	Control Properties Enabled: yes Initially Marked: yes TriState: no ToolTip Text: <If needed specify tip here> Acc. Descrip.: <If needed specify text here> Acc. Text: <If needed specify text here> Other...: <If needed specify here>	
		String English ~Display document title String German Dokumenttitel anzeigen	
<#>	Label	Control Properties ToolTip Text: <If needed Specify text here> Acc. Descrip.: <If needed specify text here> Acc. Text: <If needed specify text here> Enabled: yes	
		String English User interface options String German Benutzeroberflächenopti onen	

#	Type	Properties	Comment
<#>	CheckBox	Control Properties Enabled: yes Initially Marked: no TriState: no ToolTip Text: <If needed specify tip here> Acc. Descrip.: <If needed specify text here> Acc. Text: <If needed specify text here> Other...: <If needed specify here>	
		String English Hide ~menubar	String German Menüleiste ausblenden
<#>	CheckBox	Control Properties Enabled: yes Initially Marked: no TriState: no ToolTip Text: <If needed specify tip here> Acc. Descrip.: <If needed specify text here> Acc. Text: <If needed specify text here> Other...: <If needed specify here>	
		String English Hide ~toolbar	String German Werkzeugleisten ausblenden
<#>	CheckBox	Control Properties Enabled: yes Initially Marked: no TriState: no ToolTip Text: <If needed specify tip here> Acc. Descrip.: <If needed specify text here> Acc. Text: <If needed specify text here> Other...: <If needed specify here>	
		String English Hide ~window controls	String German Fenstersteuerelemente ausblenden
<#>	Label	Control Properties Enabled: Yes	
		String English Transition effects	String German Übergangseffekte
<#>	CheckBox	Control Properties Enabled: if document to be exported is a presentation Initially Checked: yes TriState: no ToolTip Text: Other...:	
		String English Use transition effects	String German Übergangseffekte benutzen
<#>	Label	Control Properties Enabled: yes	
		String English Bookmarks	String German Lesezeichen
<#>	RadioButton	Control Properties Enabled: yes Initially Selected: yes ToolTip Text:	

#	Type	Properties		Comment
		String English ~All bookmark levels	String German Alle Lesezeichenebenen	
<#>	RadioButton	Control Properties Enabled: yes Initially Selected: no ToolTip Text:		
		String English ~Visible bookmark levels	String German Aufgeklappte Lesezeichenebenen	
<#>	SpinField	Control Properties Editable: yes Enabled: iff "Visible bookmark levels" is selected Minimum Value: 1 Maximum Value: 10 Start Value: 1 Steps: 1 Measurement unit: 1 A11Y Text: ToolTip Text: Other...:		
		String English	String German	

1.6 Fourth Tab: Security Settings

Comment: New for OOo 2.0.4

Comment: The following sections are copied and edited from [beppec56's spec draft v1.1](#) for security settings.

1.6.1 Intro

A PDF file can be encrypted to protect its content from unauthorized access.

The various aspects of the encryption and access control in a viewer are implemented through a software module called security handler.

There can be different security handler implementations, among them:

- Standard security handler. It permits access permissions and two passwords for a documents.
- Public key security handler. In this case the public key technology is used to encrypt a document and it's possible to specify a list of recipients, each list have its own access permissions. In this every list of recipients can be associated to different access permissions.
- Crypt filters (only PDF vers. 1.6). They permit a finer granularity over the document encryption. Every single stream can have its own filter.

1.6.2 Implementation

It's my opinion that currently only the Standard security handler should be implemented, for the following reasons:

- it gives two passwords protection with access permissions, sufficient for most uses;
- the building blocks needed are already present in OOo (MD5 digest, ARCFOUR cypher, the AES as specified on PDF v.1.6 is not yet available on OOo's source tree);

- the consumer applications (that is, the viewers) are all expected to support the Standard security handler;
- from what I'm seeing in issues i12626 and the other duplicates of it, it's what users request;
- it was relatively simple to implement in OOo (meaning that as of today I've already done most of the "grunt" work needed);
- keeping it to PDF v1.4, only ARCFOUR (RC4 compatible) encryption is provided.

For a detailed description of the encryption implementation, please see chapter 3.5 of PDF specification version 1.4.

1.6.3 Some words on the passwords

Implementing standard security means giving two access levels: owner and user and two different passwords, one for the owner permission level, the other for the user level.

The owner is defined as the person who can change the document permissions, so this password can be named "*Permission password*"; the user is defined as the person who can only "see" the document if she knows the user password, so we'll have a "*Document Open Password*".

The PDF specification documents don't say anything about the passwords: you can leave the passwords blank (empty), I think that the encryption without **at least the Permission Password** is meaningless: you end up with a PDF document with fixed permissions, that can be changed simply by giving an empty Permission Password to the application used to edit the PDF.

MMP 7-Jul-2006: If just the Open Password is set, then you get a protected PDF that can only be opened by the person who knows the Open Password. This does make sense.

beppec56: true

If neither Open Password nor Permission Password is set, then you get an encrypted file without any security. This might make sense to prevent search engine tools from indexing your PDF file.

beppec56: Having neither open nor permission passwords set you end up with a file that has permission set as requested, but anyone can read it and anyone can modify those permission. This is an effect of the PDF spec implementation.

So if the search engines are smart enough to use the encryption PDF algorithm, they can easily index the PDF document by applying the algorithm with blank password. This worked so for a filter provided from Adobe years back.

MMP: // not sure if I still understand what I just wrote. It depends on the treatment of empty passwords.

beppec56: see rows 113 and 116 below.

Maybe, it's something that can be left to the user, a decision whether this PDF implementation permits empty or not Permission password should be made.

If the *Document open password* is left blank, then no Document open password will be needed to open the PDF, but the Permission password will still be needed to change the permissions.

That means a PDF file that can be opened by everyone.

If there is a Document open password but not a Permission password, then according to the PDF specification the Permission password is forced equal to the Document open password; that means there is a single password to operate on the document. (the same to open and change permissions)

The encryption is done "on the fly", that is while exporting to PDF the file is encrypted; this may lead to a longer saving time when the file is saved as encrypted PDF compared to the non encrypted one, especially with huge files.

OOo 3.1 Update: no encrypted files without password anymore. The handling will be as follows: if no password is set, the file will not be encrypted. A text will be shown whether the file is going to be encrypted or not. Only setting the open password leads to an encrypted file.

1.6.4 Dialog Design

150 The UI is basically built adding a tab to the dialog as it is in OOo 2.0.3.

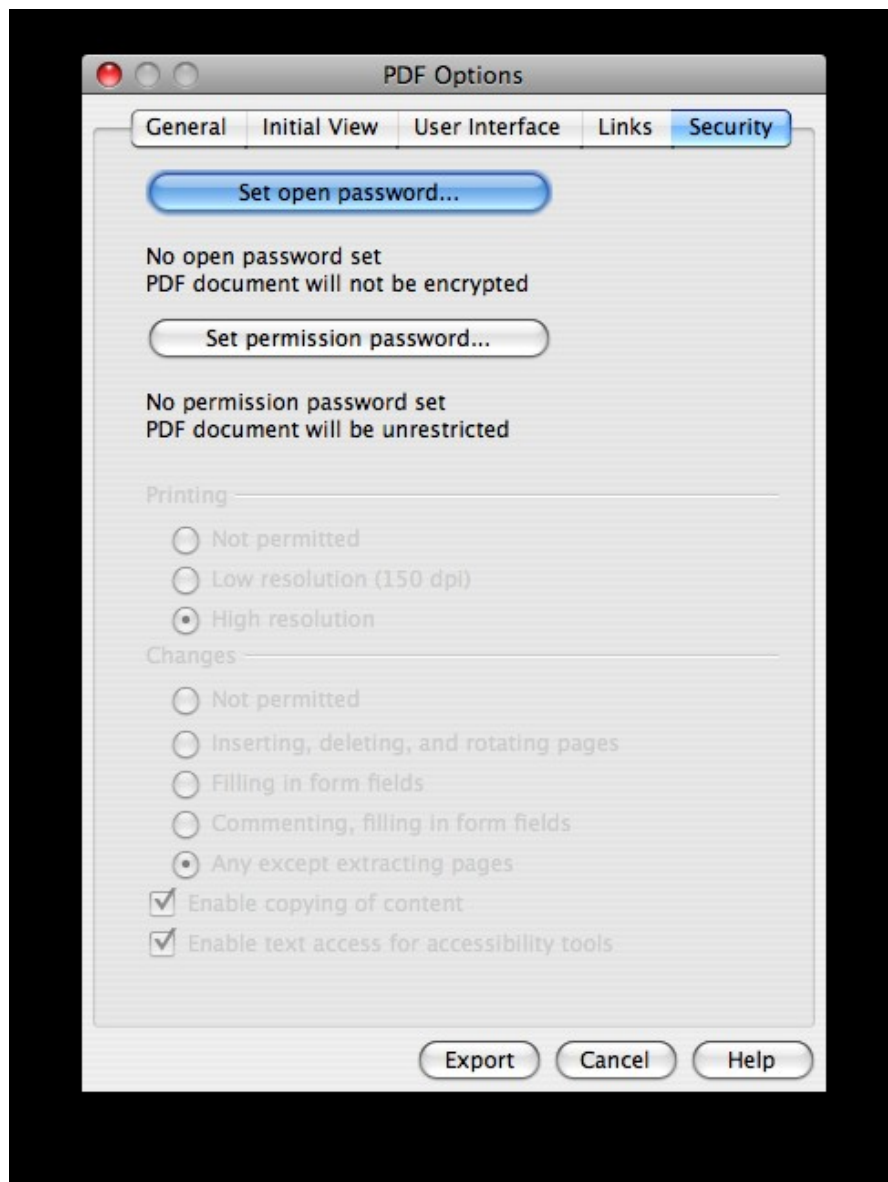


Illustration 6: Password Security Tab (mockup, Jul 7, 2006)

Comment. The dialogs box is 20 unit higher that the current one in OOo 2.0.3, whereas the width is the same.

155 **Table 4:** User Interface elements of Illustration 6

#	Type	Properties		Comment
1	CustomControl	Control Properties		Tab page title
		String English Security	String German Sicherheit	

#	Type	Properties	Comment
2	Button	Control Properties Icon: no Enabled: iff #2 is marked String English Set ~open password... String German Öffnen-~Passwort setzen	
3	Label	Control Properties Enabled: yes String English "Open password set\nPDF document will be encrypted" or "No open password set\nPDF document will not be encrypted" depending on encryption being applied or not	
4	Button	Control Properties Icon: no Enabled: iff #4 is marked String English Set ~permission password... String German R~echte-Passwort setzen	
4	Label	Control Properties Enabled: yes String English "Permission password set\nPDF document will be restricted" or "No permission password set\nPDF document will be unrestricted" depending on a permission password set or not	
6	Label	Control Properties Enabled: iff #4 is marked AND #5 is not empty String English Printing String German Drucken	
7	RadioButton	Control Properties Enabled: iff #4 is marked AND #5 is not empty Initially Marked: no String English ~Not permitted String German ~Nicht gestattet	

#	Type	Properties	Comment
8	RadioButton	Control Properties Enabled: iff #4 is marked AND #5 is not empty Initially Marked: no	
		String English ~Low resolution (150 dpi) String German N~iedrige Auflösu ng (150 dpi)	
9	RadioButton	Control Properties Enabled: iff #4 is marked AND #5 is not empty Initially Marked: yes	
		String English ~High resolution String German ~Hohe Auflösu ng	
10	Label	Control Properties Enabled: iff #4 is marked AND #5 is not empty	
		String English Changes String German Än~derungen	
11	RadioButton	Control Properties Enabled: iff #4 is marked AND #5 is not empty Initially Marked: no	
		String English No~t permitted String German Ni~cht gestattet	
12	RadioButton	Control Properties Enabled: iff #4 is marked AND #5 is not empty Initially Marked: no	
		String English ~Inserting, deleting, and rotating pages String German Einfügen, Löschen und Rotieren von ~Seiten	
13	RadioButton	Control Properties Enabled: iff #4 is marked AND #5 is not empty Initially Marked: no	
		String English ~Filling in form fields String German ~Formulare ausfüllen	
14	RadioButton	Control Properties Enabled: iff #4 is marked AND #5 is not empty Initially Marked: no	
		String English ~Commenting, filling in form fields String German ~Kommentieren und Formulare ausfüllen	
15	RadioButton	Control Properties Enabled: iff #4 is marked AND #5 is not empty Initially Marked: no	
		String English ~Any except extracting pages String German ~Alles, bis auf Extrahieren von Seiten	
16	CheckBox	Control Properties Enabled: iff #4 is marked AND #5 is not empty Initially Marked: yes	
		String English Ena~ble copying of content String German Inha~lt kopieren erlauben	

#	Type	Properties	Comment
17	CheckBox	Control Properties Enabled: iff #4 is marked AND #5 is not empty Initially Marked: yes	
		String English Enable text access for accessibility tools	String German Mit Unterstützung der ~Zugänglichkeit
18	Label	Control Properties Enabled: yes Visible: iff password is empty	string behind the password buttons
		String English (empty)	String German (leer)

The Security panes behaves a little different than the other PDF Export panes. Not all settings are kept for later use (with other words: not all settings are stored in the configuration)

#2 (Encrypt) and #4 (Restrict permissions) are always unmarked if the PDF Export dialog comes up.

160 The passwords (related to #3 and #5) are always empty when the dialog comes up. The passwords need to be entered each time for encryption or restricting the permissions.

All other settings are kept in the configuration for a future use of the dialog.

1.6.5 Password Dialog

165 The Password dialog is used to set either the Open Password or the Permission Password – the title of the dialog reflects this. It is possible to enter an empty password.

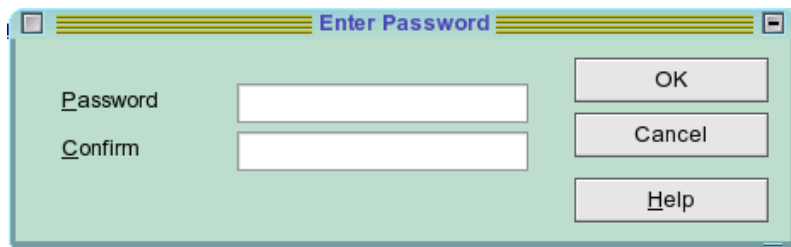


Illustration 7: Password dialog (prototype June 2006)

Table 5: User Interface elements of Illustration 7

#	Type	Properties	Comment
<#>	Dialog	Control Properties State: modal Closable: yes Close Operation: do nothing Is iconifiable: no Is maximizable: no Resizable: no Always On Top: yes	
		String English Set Open Password	String German Öffnen-Passwort setzen
			window title
<#>	Dialog	Control Properties	
		String English Set Permission Password	String German Rechte-Passwort setzen
			window title

170 **1.6.6 Notes**

- bepec56: the password should need a double input, to confirm. I'm trying to figure out a way to do this.
MMP: I suppose this is not necessary. Passwords can be empty. The UI of the Security panel can deal with this situation.

- 175 ● bepec56: how the passwords are saved in config ? Encrypted ? How ? Currently they are saved in clear text.
MMP: I suggest not to save them anywhere. (see above)
bepper56: OK.

180 The option described above can be mixed together.

1.6.7 Printing permissions

There is a permission selection that results in high or low resolution printing.

185 This behavior is honored by Acrobat reader only when printing in Windows. On Unix system the Acro reader prints only in high resolution, the behavior in Mac system is unknown to me. (see Appendix H, note 16 on PDF ref. V. 1.4)

The High/Low resolution printing behavior is not honored at all by xpdf, gpdf and kpdf. That is they print always in high resolution, whatever the selection.

1.6.8 Configuration

190 Will be provided as soon as I'll have the English strings frozen, I'd like to use a similar text for the configuration item names.

MMP:

1.7 Tab page “Links”

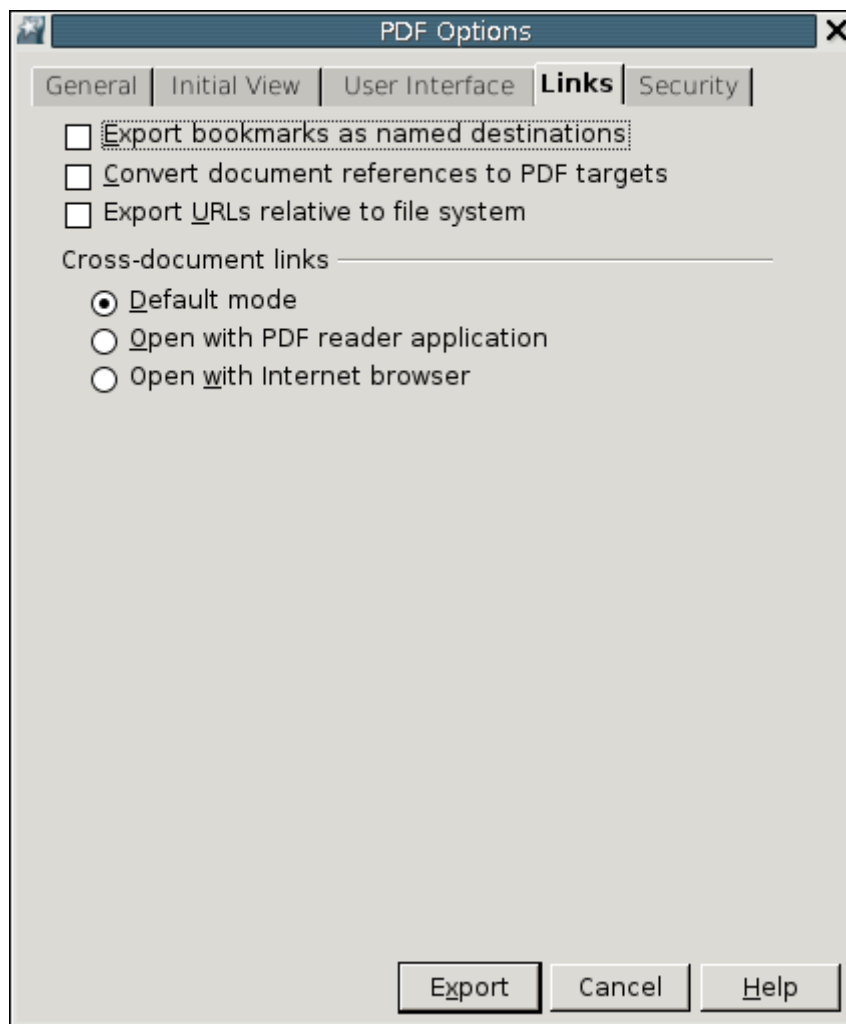


Illustration 8: Tab page for link handling

Table <Table Number>: User Interface elements of Figure <Figure Number>

#	Type	Properties	Comment
<#>	CheckBox	Control Properties Enabled: yes Initially Checked: no TriState: no ToolTip Text: Other...:	
		~Export bookmarks as named destinations	<Enter German String Here>
<#>	CheckBox	Control Properties Enabled: yes Initially Checked: no TriState: no ToolTip Text: Other...:	
		String English ~Convert document references to PDF targets	String German <Enter String Here>

#	Type	Properties	Comment
<#>	CheckBox	Control Properties Enabled: yes Initially Checked: no TriState: no ToolTip Text: Other...:	
		String English Export ~URLs relative to file system	String German <Enter String Here>
<#>	Separator	Control Properties Label: Cross-document links	
		String English Cross-document links	String German <Enter String Here>
<#>	RadioButton	Control Properties Enabled: yes Initially Selected: yes ToolTip Text:	
		String English ~Default mode	String German <Enter String Here>
<#>	RadioButton	Control Properties Enabled: yes Initially Selected: no ToolTip Text:	
		String English ~Open with PDF reader application	String German <Enter String Here>
<#>	RadioButton	Control Properties Enabled: yes Initially Selected: no ToolTip Text:	
		String English Open ~with Internet browser	String German <Enter String Here>

195

1.7.1 Goals

The PDF document exported with the OOo can contains Hyperlinks that can point to targets internal to the document or external ones. Currently the external targets are resolved as absolute targets and the jump to the target is performed as an absolute “link action to a URL”. This action should be optionally changed to relative. Even if it seems simple, and is actually simple to change from absolute to current document position relative, the results may not be the best for use.

200

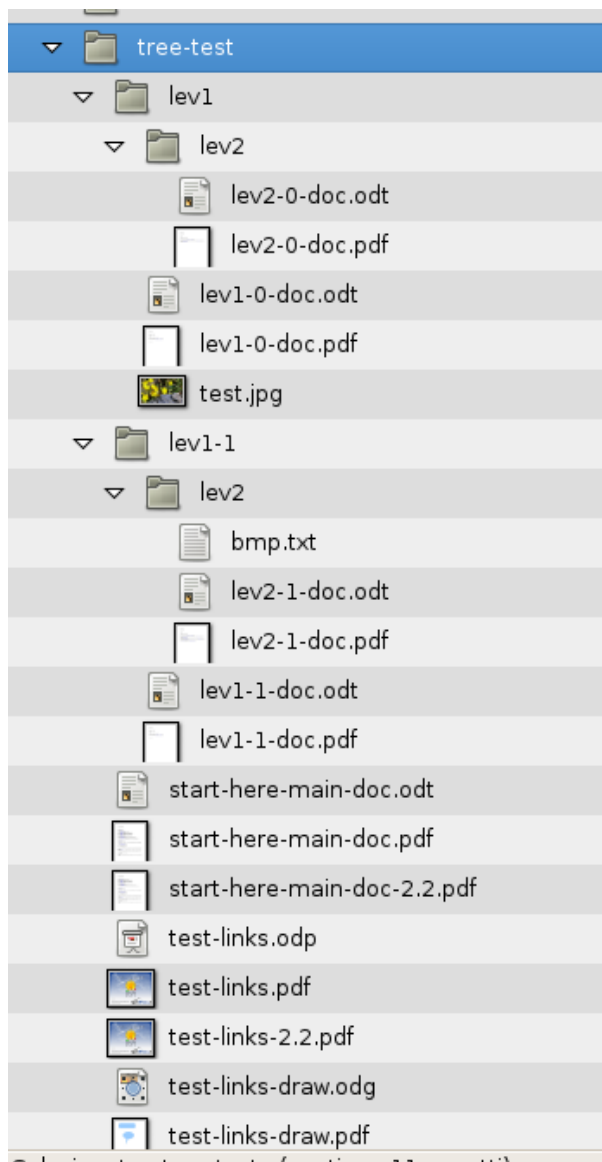
Throughout this document we use the Acrobat(r) Reader from Adobe(r) as the standard reader for a PDF or a series of PDF documents produced by OOo. Part of the discussion can be applied to other readers as well, but is currently unknown if they support the PDF features specified by the 1.4 version of the standard discussed here.

205

1.7.2 Objective of the proposal

210 The main idea is to have the possibility to produce a PDF integrated documentation, starting from OOO family of documents, e.g. Writers documents, Impress documents, Draw documents, where the links among the PDF documents are to be maintained in the OOO native formats.

For example, we may have this document structure, in directories starts from **tree-test**:



215

220 The documents in the figure above have the following links among them. The targets are to be maintained in full, e.g. both the file name and the bookmark inside that file, if available.

1.7.3 Link Action vs GoTo Action

Please find the definitions for Link actions and GoTo actions in the PDFReference V1.4

1.7.4 Absolute and relative

225

Absolute paths refer to a complete description of a filename including its directory structure from the root down. Relative paths refer to the current directory, for purposes of this specification this means relative to the directory containing the document the link originates from.

1.7.5 PDF destinations

230

Bookmark name (destination name) should be converted in order to be composed only of character meaningful for the console, e.g. The 'à' should for example become 25C325A0 (the conversion is %C3%A0 in a URL). This conversion is needed because the permitted character set of the name of the named destination and the character set of a URL fragment (for example the '%' sign is not allowed in named destination, whereas the '#' prepend is not allowed in URL mapping).

235

1.7.6 Different scenarios as example

1.7.6.1 Scenario 1

Base: Links are relative, action is to open in browser, bookmarks converted to PDF destinations, ODF targets converted to PDF targets

240

	Use in GNU/Linux				Use in Windows			
	Start With Firefox		Start with Acrobat Reader		Start With Firefox		Start with Adobe	
	Check PDF	Check other files	Check PDF	Check other files	Check PDF	Check other files	Check PDF	Check other files
GNU/Linux	The PDF links are honored, Firefox opens links in the same window/tab, SOMETIMES ¹ jump to correct destination	open in the same windows/tab, using the appropriate application	Jump to the target opening an Internet Browser. Then the behavior is as for Firefox	Open in the appropriate application				
Windows								

1.7.6.2 Scenario 2

As Scenario 1, but open files in reader application instead of browser

¹ It seems that the jump to the named destination is correct only if the name is semantically correct to both environment (Internet and Acrobat). Changing the mapping should do the trick.

Generated in:	Use in GNU/Linux				Use in Windows			
	Start With Firefox		Start with Acrobat Reader		Start With Firefox		Start with Adobe	
	Check PDF	Check other files	Check PDF	Check other files	Check PDF	Check other files	Check PDF	Check other files
GNU/Linux	The PDF links are honored, Firefox opens links in the same window/tab, DOES NOT jump to correct destination	open in the same windows/tab, using the appropriate application	The PDF links are not honored	Open in the appropriate application				
Windows								

245

1.8 Free notes

250 Relative to FS, then action as in 8.5.3 PDF 1.4, the PDF will work only in Acrobat Reader, xpdf does not work so are the others readers.

Opens as URI (opens browser)

255 A uniform resource identifier (URI) is a string that identifies (resolves to) a resource on the Internet —typically a file that is the destination of a hypertext link, although it can also resolve to a query or other entity. A URI action causes a URI to be resolved.
(the currently implemented action), good for every file, it seems that the Adobe Reader plugins treats the fragment part of the URL as if it were a named destination.

Opens as Launch actions

260 A launch action launches an application or opens or prints a document.
Not really useful, depends on the file system the system is in.

Opens as GoToR:

265 A remote go-to action is similar to an ordinary go-to action, but jumps to a destination in another PDF file instead of the current file.
This will work only when the target PDF document has the destination available, generated with the option: Export bookmark to named destination.

Export bookmark to named destination

270 Export OpenOffice.org bookmark to PDF (they become target for a GoToR action)

2 Migration

n/a

3 Configuration

- 275 The following configuration items affect PDF export and correspond to the UI controls in the dialog. The items are to be found at the path `org.openoffice.Office/Common/PDF/Export`
- "UseLosslessCompression" oor:type="xs:boolean" default: false: Specifies if graphics are exported to PDF using a lossless compression eg. PNG or if they are compressed using the JPEG format.
- 280 "Quality" oor:type="xs:int" default: 90: Specifies quality of the JPG export. A higher value results in higher quality and file size.
- "ReduceImageResolution" oor:type="xs:boolean" default: false : Specifies if the resolution of each image is reduced to the resolution specified by the property `MaxImageResolution`.
- "MaxImageResolution" oor:type="xs:int" default: 300: If the property `ReduceImageResolution` is set to true all images will be reduced to the given value in DPI.
- 285 "UseTaggedPDF" oor:type="xs:boolean" default: false: Determines if PDF are created by using special tags also known as Tagged PDF.
- "ExportNotes" oor:type="xs:boolean" default: false Specifies if notes are exported to PDF.
- "ExportNotesPages" oor:type="xs:boolean" default: false: Specifies if notes pages are exported to PDF. (Notes pages are available in Impress documents only).
- 290 "ExportBookmarks" oor:type="xs:boolean" default: true Specifies if bookmarks are exported to PDF.
- "OpenBookmarkLevels" oor:type="xs:int" default: -1: Specifies how many bookmark levels should be opened in the reader application when the PDF gets opened. -1 means all levels, non-negative numbers mean the respective number of levels.¹
- 295 "UseTransitionEffects" oor:type="xs:boolean" default: true: Specifies slide transitions are exported to PDF. This option is active only if storing Impress documents.
- "ExportFormFields" oor:type="xs:boolean" default: true Specifies whether form fields are exported as widgets or only their fixed print representation is exported.
- "FormsType" oor:type="xs:int" default: 0: Specifies the submitted format of a PDF form. Values are: "0" for FDF format, "1" for PDF format, "2" for HTML format, "3" for XML format
- 300 "IsSkipEmptyPages" oor:type="xs:boolean" default: false: Specifies that automatically inserted empty pages are suppressed. This option is active only if storing Writer documents.
- "HideViewerMenubar" oor:type="xs:boolean" default: false: Specifies whether to hide the PDF viewer menubar when the document is active.
- 305 "HideViewerToolbar" oor:type="xs:boolean" default: false: Specifies whether to hide the PDF viewer toolbar when the document is active.
- "HideViewerWindowControls" oor:type="xs:boolean" default: false: Specifies whether to hide the PDF viewer controls when the document is active.
- "ResizeWindowToInitialPage" oor:type="xs:boolean" default: false: Specifies that the PDF viewer window is opened full screen when the document is opened.
- 310 "CenterWindow" oor:type="xs:boolean" default: false: Specifies that the PDF viewer window is centered to the screen when the PDF document is opened.
- "OpenInFullScreenMode" oor:type="xs:boolean" default: false: Specifies that the PDF viewer window is opened full screen, on top of all windows.
- 315 "DisplayPDFDocumentTitle" oor:type="xs:boolean" default: true: Specifies that the title of the document, if present in the document properties, is displayed in the PDF viewer window title bar.
- "FirstPageOnLeft" oor:type="xs:boolean" default: false: Used with the value 3 of the `PageLayout` property when the first page (odd) should be on the left side of the screen.
- "InitialView" oor:type="xs:int" default: 0: Specifies how the PDF document should be displayed when opened. "0" meaning neither outlines or thumbnails, "1" meaning the document is opened with outline pane opened,

¹ Acrobat Reader handles open bookmark levels "0" and "1" the same: the first level is visible

- 320 "2" meaning the document is opened with thumbnail pane opened
- "Magnification" oor:type="xs:int" default: 0: Specifies the action to be performed when the PDF document is opened, "0" meaning opens with default zoom magnification, "1" meaning opens magnified to fit the entire page within the window, "2" meaning opens magnified to fit the entire page width within the window, "3" meaning opens magnified to fit the entire width of its bounding box within the window (cuts out margins), "4" means with a zoom level given in the "Zoom" property.
- 325 "Zoom" oor:type="xs:int" default: 100: Specifies the zoom level a PDF document is opened with. Only valid if "Magnification" is set to "4".
- "PageLayout" oor:type="xs:int" default: 0: Specifies the page layout to be used when the document is opened, "0" meaning display the pages according to the reader configuration, "1" meaning display one page at a time, "2" meaning display the pages in one column, "3" meaning display the pages in two columns odd pages on the right, to have the odd pages on the left the FirstPageOnLeft properties should be used as well.
- 330 "InitialPage" oor:type="xs:int" default: 1: Specifies the page on which a PDF document should be opened in the viewer application.
- "SelectPdfVersion" oor:type="xs:int" default: 0 specifies the type of PDF produced: 0 (default) PDF1.4, 1 PDF/A-1
- 335 "ExportLinksRelativeFsys" oor:type="xs:boolean" default: false specifies whether links will be exported relative to file system.
- "PDFViewSelection" oor:type="xs:int" default: 0 specifies the viewer behaviour of links: 0 all links treated as URI, 1 all links handled by the reader application, 2 all links will be exported to use an internet browser
- 340 "ConvertOOoTargetToPDFTarget" oor:type="xs:boolean" default:: false specifies that linked OOo document types will be exported to PDF, too
- "ExportBookmarksToPDFDestination" oor:type="xs:boolean" default:: false specifies to convert bookmarks into named PDF destinations.

4 File Format

- 345 Specification of the changes needed to the OpenOffice.org code in order to implement the PDF/A-1 export filter. These notes are intended as an aid to the implementation of ISO 19005-1:2005 (title: Document management – Electronic document file format for long-term preservation – Part 1: Use of PDF 1.4) AKA PDF/A-1. In order to grasp a good understanding of this spec, a copy of the ISO 19005-1 specification is needed.

350 4.1 Glossary

See the glossary in section 3 of the ISO 19005-1:2005.

4.2 File structure

- 355 The following quoted paragraphs document the changes made to make OOo's PDF compliant to ISO19005-1:2005. The mentioned headlines refer directly to the headlines in ISO19005-1:2005.

6.1.7 Stream objects

The **stream** keyword shall be followed either by a **CARRIAGE RETURN** (0Dh) and **LINE FEED** (0Ah) character sequence or by a single **LINE FEED** character. The **endstream** keyword shall be preceded by an EOL marker.

The value of the **Length** key specified in the stream dictionary shall match the number of bytes in the file following the **LINE FEED** character after the **stream** keyword and preceding the EOL marker before the **endstream** keyword.

NOTE 1 These requirements remove potential ambiguity regarding the ending of stream content.

A stream object dictionary shall not contain the **F**, **FFilter**, or **FDecodeParams** keys.

NOTE 2 These keys are used to point to document content external to the file. The explicit prohibition of these keys has the implicit effect of disallowing external content that can create external dependencies and complicate preservation efforts.

6.1.8 Indirect objects

The object number and generation number shall be separated by a single white-space character. The generation number and **obj** keyword shall be separated by a single white-space character.

The object number and **endobj** keyword shall each be preceded by an EOL marker. The **obj** and **endobj** keywords shall each be followed by an EOL marker.

6.2 Graphics

6.2.1 General

6.2.2 to 6.2.10 describe restrictions placed on both conforming files and readers. They are intended to address graphical rendering issues that do not involve fonts and interactive elements.

6.2.2 Output intent

A conforming file may specify the colour characteristics of the device on which it is intended to be rendered by using a PDF/A-1 OutputIntent. A PDF/A-1 OutputIntent is an OutputIntent dictionary, as defined by *PDF Reference* 9.10.4, that is included in the file's **OutputIntents** array and has GTS_PDFA1 as the value of its **S** key and a valid ICC profile stream as the value its **DestOutputProfile** key.

If a file's **OutputIntents** array contains more than one entry, then all entries that contain a **DestOutputProfile** key shall have as the value of that key the same indirect object, which shall be a valid ICC profile stream.

6.2.3 Colour spaces

6.2.3.1 General

All colors shall be specified in a device-independent manner, either directly by the use of a device independent color space, or indirectly by the use of an **OutputIntent**. A conforming file may use any color space specified in *PDF Reference*, except as restricted in 6.2.3.2 to 6.2.3.4.

NOTE Specifying color in the device-independent manner described within 6.2.3 enables predictable color rendering based on a colorimetric definition and without reliance on assumptions or information

external to the conforming file. It also provides a mechanism whereby a colorimetric definition can be associated with device-dependent color data.

6.2.3.2 ICCBased colour spaces

All **ICCBased** colour spaces shall be embedded as ICC profile streams as described in *PDF Reference* 4.5.

A conforming reader shall render **ICCBased** colour spaces as specified by the ICC specification, and shall not use the **Alternate** colour space specified in an ICC profile stream dictionary.

6.2.3.3 Uncalibrated colour spaces

A conforming file may use either the **DeviceRGB** or **DeviceCMYK** colour space but shall not use both. If an uncalibrated colour space is used in a file then that file shall contain a PDF/A-1 OutputIntent, as defined in 6.2.2. **DeviceRGB** may be used only if the file has a PDF/A-1 OutputIntent that uses an **RGB** colour space. **DeviceCMYK** may be used only if the file has a PDF/A-1 OutputIntent that uses a **CMYK** colour space.

When rendering a **DeviceGray** colour specification in a file whose **OutputIntent** is an **RGB** profile, a conforming reader shall convert the **DeviceGray** colour specification to **RGB** by the method described in *PDF Reference* 6.2.1.

When rendering a **DeviceGray** colour specification in a file whose **OutputIntent** is a **CMYK** profile, a conforming reader shall convert the **DeviceGray** colour specification to **DeviceCMYK** by the method described in *PDF Reference* 6.2.2.

When rendering colours specified in a device-dependent colour space a conforming reader shall use the file's PDF/A-1 OutputIntent dictionary, as defined in 6.2.2, as the source colour space.

6.2.3.4 Separation and DeviceN colour spaces

A conforming reader shall obey the following rules when rendering colour spaces based on **DeviceN** or **Separation** colour spaces.

- If the named colourants in the colour space are all from the list **Cyan, Magenta, Yellow, Black**, the file has an **OutputIntent**, and that **OutputIntent** is a **CMYK** profile, then the colourants shall be treated as components of the colour space specified by the PDF/A-1 OutputIntent dictionary, as defined in 6.2.2, and the alternate colour space shall not be used.
- If the output device does not support the **Separation** colour space or **DeviceN** colourants, the **Alternate** colour space shall be used.

The **Alternate** colour space of a **Separation** or **DeviceN** colour space shall obey all restrictions on colour spaces specified in 6.2.3.2 and 6.2.3.3.

6.2.8 Extended graphics state

An ExtGState dictionary shall not contain the **TR** key. An ExtGState dictionary shall not contain the **TR2** key with a value other than *Default*. A conforming reader may ignore any instance of the **HT** key in an ExtGState dictionary.

Use of the **RI** key shall conform to the rules of 6.2.9.

6.2.9 Rendering intents

Where a rendering intent is specified, its value shall be one of the four values defined in *PDF Reference* *RelativeColorimetric*, *AbsoluteColorimetric*, *Perceptual* or *Saturation*.

NOTE The default rendering intent is *RelativeColorimetric*.

6.2.10 Content streams

A content stream shall not contain any operators not defined in *PDF Reference* even if such operators are bracketed by the **BX/EX** compatibility operators.

Use of the **ri** operator shall conform to the rules of 6.2.9.

NOTE 1 Content streams are used for page descriptions, e.g. the **Contents** stream of a page object or the stream of a form XObject, as well as for the appearance stream of annotations, including form fields or **Widget** annotations.

NOTE 2 In earlier versions of the PDF format a PostScript operator **PS** was defined. As this operator is not defined in *PDF Reference* its use is implicitly prohibited by 6.2.10.

6.3 Fonts

6.3.1 General

The intent of the requirements in 6.3.2 to 6.3.8 is to ensure that future rendering of the textual content of a conforming file matches, on a glyph by glyph basis, the static appearance of the file as originally created and to allow the recovery of semantic properties for each character of the textual content.

6.3.2 Font types

All fonts used in a conforming file shall conform to the font specifications defined in *PDF Reference* 5.5.

For the purposes of this part of ISO 19005, multiple master fonts shall be considered a special case of Type 1 fonts; any requirement explicitly stated with regard to Type 1 fonts shall be implicitly required with regard to multiple master fonts.

NOTE It is the responsibility of the writer to ensure the conformance of all fonts. This part of ISO 19005 does not prescribe the manner in which font conformance is determined.

6.3.4 Embedded font programs

The font programs for all fonts used within a conforming file shall be embedded within that file, as defined in *PDF Reference* 5.8, except when the fonts are used exclusively with text rendering mode 3. A font is considered to be used if any of its glyphs are referenced in any of the following contexts:

- the **Contents** stream of a page object;
- the stream of a Form XObject;
- the appearance stream of an annotation, including form fields;
- the content stream of a Type 3 font glyph;
- the stream of a tiling pattern.

6.4 Transparency

If an **SMask** key appears in an **ExtGState** or **XObject** dictionary, its value shall be **None**.

A **Group** object with an **S** key with a value of **Transparency** shall not be included in a form **XObject**.

The following keys, if present in an **ExtGState** object, shall have the values shown:

- **BM** *Normal* or *Compatible*
- **CA** *1.0*
- **ca** *1.0*

6.5 Annotations

6.6 Actions

6.6.1 General

The **Launch**, **Sound**, **Movie**, **ResetForm**, **ImportData** and **JavaScript** actions shall not be permitted. Additionally, the deprecated **set-state** and **no-op** actions shall not be permitted. Named actions other than **NextPage**, **PrevPage**, **FirstPage**, and **LastPage** shall not be permitted. In response to each of the four allowed named actions, conforming interactive readers shall perform the appropriate action described in *PDF Reference* Table 8.45.

Interactive form fields shall not perform actions of any type.

6.6.2 Trigger events

A Widget annotation dictionary or Field dictionary shall not include an **AA** entry for an additional-actions dictionary. The document catalog dictionary shall not include an **AA** entry for an additional-actions dictionary.

NOTE These additional-actions dictionaries define arbitrary JavaScript actions. The explicit prohibition of the **AA** entry has the implicit effect of disallowing JavaScript actions that can create external dependencies and complicate preservation efforts.

6.6.3 Hypertext links

Conforming interactive readers may choose to make hyperlinks non-actionable, but in addition to the rendering behaviour defined by *PDF Reference*, as modified by this part of ISO 19005, they shall provide a mechanism to display the **F** and **D** keys of a **GoToR** action dictionary, the **URI** key of a **URI** action dictionary, and the **F** key of a **SubmitForm** action dictionary.

6.7 Metadata

6.7.1 General

6.7.2 to 6.7.11 specify requirements for metadata within conforming files. Metadata is essential for effective management of a file throughout its life cycle. A file depends on metadata for identification and description, as well as for describing appropriate technical and administrative matters. As a result, writers of conforming files may have to comply with various domain-specific metadata requirements defined external to this part of ISO 19005. This part of ISO 19005 outlines a structured, consistent framework that supports a broad variety of metadata requirements.

6.7.2 Properties

The document catalog dictionary of a conforming file shall contain the **Metadata** key. The metadata stream that forms the value of that key shall conform to *XMP Specification*. All metadata properties embedded in a file shall be in XMP form except for document information dictionary entries that have no XMP analogues, as defined in 6.7.3. Properties specified in XMP form shall use either the predefined schemas defined in *XMP Specification 4*, or extension schemas that comply with *XMP Specification 4*, and 6.7.8. Metadata object stream dictionaries shall not contain the **Filter** key.

NOTE 1 The explicit prohibition of the **Filter** key has the implicit effect of preserving the contents of XMP metadata streams as plain text that is visible to non-PDF aware tools.

NOTE 2 An extension schema is any XMP schema that is not defined in *XMP Specification*.

6.7.3 Document information dictionary

A document information dictionary may appear within a conforming file. If it does appear, then all of its entries that have analogous properties in predefined XMP schemas, as defined by Table 1, shall also be embedded in the file in XMP form with equivalent values. Any document information dictionary entry not listed in Table 1 shall not be embedded using a predefined XMP schema property.

NOTE 1 Since a document information dictionary is allowed within a conforming file, it is possible for a single file to be both PDF/A-1 (ISO 19005-1) and PDF/X (ISO 15930-4 and ISO 15930-6 [11]) conformant.

Table 1 — Crosswalk between document information dictionary and XMP properties

Document information dictionary		XMP	
Entry	PDF type	Property	XMP type
Title	text string	dc:title	<i>Text</i>
Author	<i>text string</i>	dc:creator	<i>seq Text</i>
Subject	<i>text string</i>	dc:subject	<i>Text</i>
Keywords	<i>text string</i>	pdf:Keywords	<i>Text</i>
Creator	<i>text string</i>	xmp:CreatorTool	<i>Text</i>
Producer	<i>text string</i>	pdf:Producer	<i>Text</i>
CreationDate	<i>date</i>	xmp:CreateDate	<i>Date</i>
ModDate	<i>date</i>	xmp:ModifyDate	<i>Date</i>

NOTE The XML namespace URI for the `dc` prefix is `<http://purl.org/dc/elements/1.1/>`; the namespace URI for the `pdf` prefix is `<http://ns.adobe.com/pdf/1.3/>`; and the namespace URI for the `xmp` prefix is `<http://ns.adobe.com/xap/1.0/>`.

The value of the document information dictionary entries and their analogous XMP properties shall be equivalent. For properties that map from the PDF *type* to the XMP *Text* type, value equivalence shall be on a character-by-character basis, independent of encoding, comparing the numeric ISO/IEC 10646-1 code points for the characters.

NOTE 2 The explicit requirement for equivalence between the values of document information dictionary entries and their analogous XMP properties has the implicit effect of providing unambiguous interpretation of that property's value.

If the **dc:creator** property is present in XMP metadata then it shall be represented by an ordered Text array of length one whose single entry shall consist of one or more names. Equivalence between **Author** and **dc:creator**, shall be on a character-by-character basis, independent of encoding, comparing the numeric ISO/IEC 10646-1 code points for the characters.

EXAMPLE 1 The document information dictionary entry:

/Author (Peter, Paul and Mary)

is equivalent to the XMP property:

```
<dc:creator>
<rdf:Seq>
<rdf:li>Peter, Paul, and Mary</rdf:li>
</rdf:Seq>
</dc:creator>
```

Date properties are formatted as a variable-length sequence of temporal components ranging in granularity: year, month, day, hour, minute, second. For properties that map between the PDF *date* type, defined by *PDF Reference* 3.8.2, and the XMP *Date* type, defined by *Date* and *Time Formats*, value equivalence shall be on a component-by-component basis, relative to Coordinated Universal Time (UTC), i.e., correcting for local time zone offset.

EXAMPLE 2 The document information dictionary entries:

/CreationDate (D:20040402)

370

/ModDate (D:20040408091132-05'00')

are equivalent to the XMP properties:

```
<xmp:CreateDate>2004-04-02</xmp:CreateDate>
```

```
<xmp:ModifyDate>2004-04-08T14:11:32Z</xmp:ModifyDate>
```

1.0.1 6.7.10 Font metadata

For all embedded Type 0, Type 1, or TrueType font programs, the embedded font file stream dictionary should include a **Metadata** entry whose value is an XMP metadata stream. The following XMP metadata elements should be supplied: **xmp:Title**, giving the value of the **FontName** key from the font's font descriptor dictionary; **xmpRights:Copyright**, giving the copyright statement; **xmpRights:Marked**, with the Boolean value *true*; **xmpRights:Owner**, giving the legal owner of the font; **xmpRights:UsageTerms**, giving a statement of the licensing terms under which the font is being used. Additional XMP metadata may be included at the discretion of the file writer.

NOTE 1 Font rights information is helpful in order to preserve the identity and scope of the intellectual property rights of the font copyright holder. While many fonts embed statements of copyright and licensing terms within the font itself, this is not a uniform practice. Therefore it is advantageous to require the explicit representation of rights statements in the conforming file. Even though this may be redundant, it obviates the necessity for some future system to have the ability to parse through the particular internal structure of font programs.

NOTE 2 The XML namespace URI for the prefix is <http://ns.adobe.com/xap/1.0/>; the namespace URI for the prefix is <http://ns.adobe.com/xap/1.0/rights/>.

1.0.2 6.7.11 Version and conformance level identification

The PDF/A version and conformance level of a file shall be specified using the PDF/A Identification extension schema defined in this subclause.

The Identification schema defined in Table 6 uses the namespace URI <http://www.aiim.org/pdfa/ns/id>. The required schema namespace prefix is **pdfaid**.

Table 6 — PDF/A identification schema

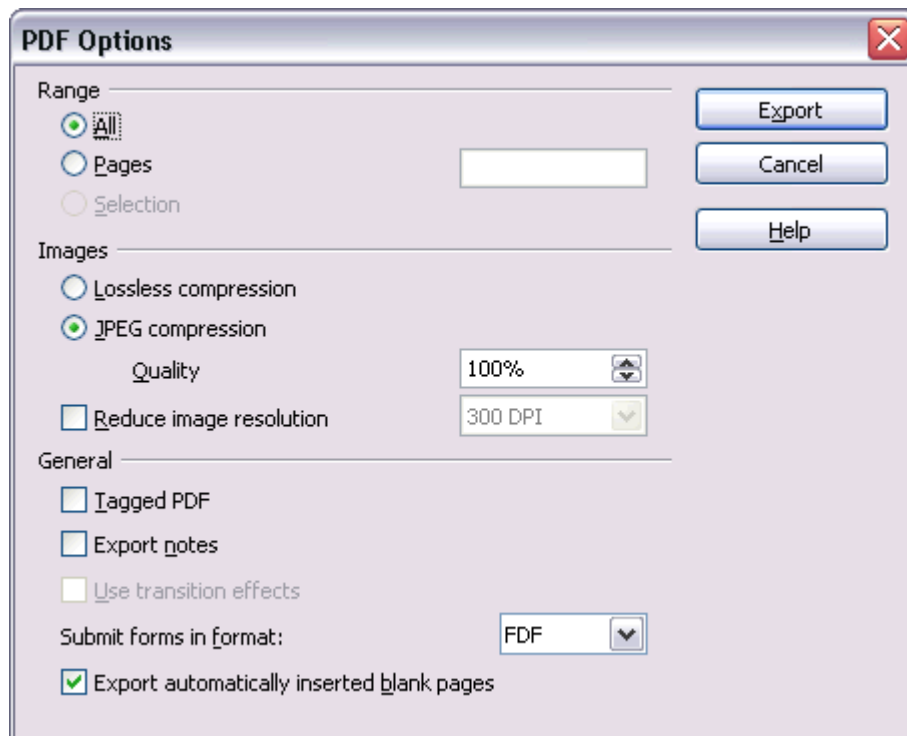
375

5 Open Issues

Issue	Initials	Date
APOC settings	MMP	Mar 8, 2006

6 Competitive Analysis

6.1 OpenOffice.org 2.0.0 – 2.0.2



380 Illustration 9: PDF Options Dialog in OOo 2.0.2

6.2 Adobe Acrobat 5

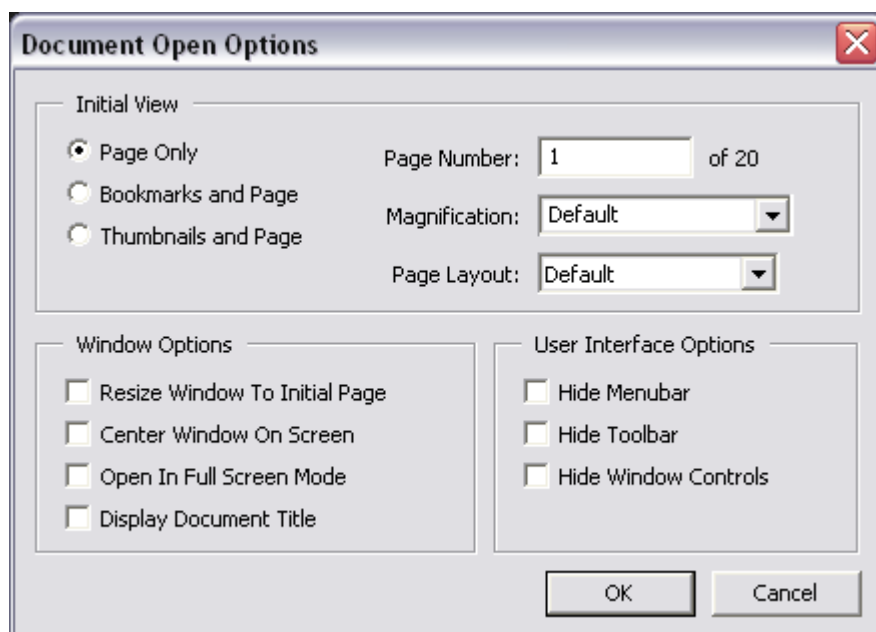
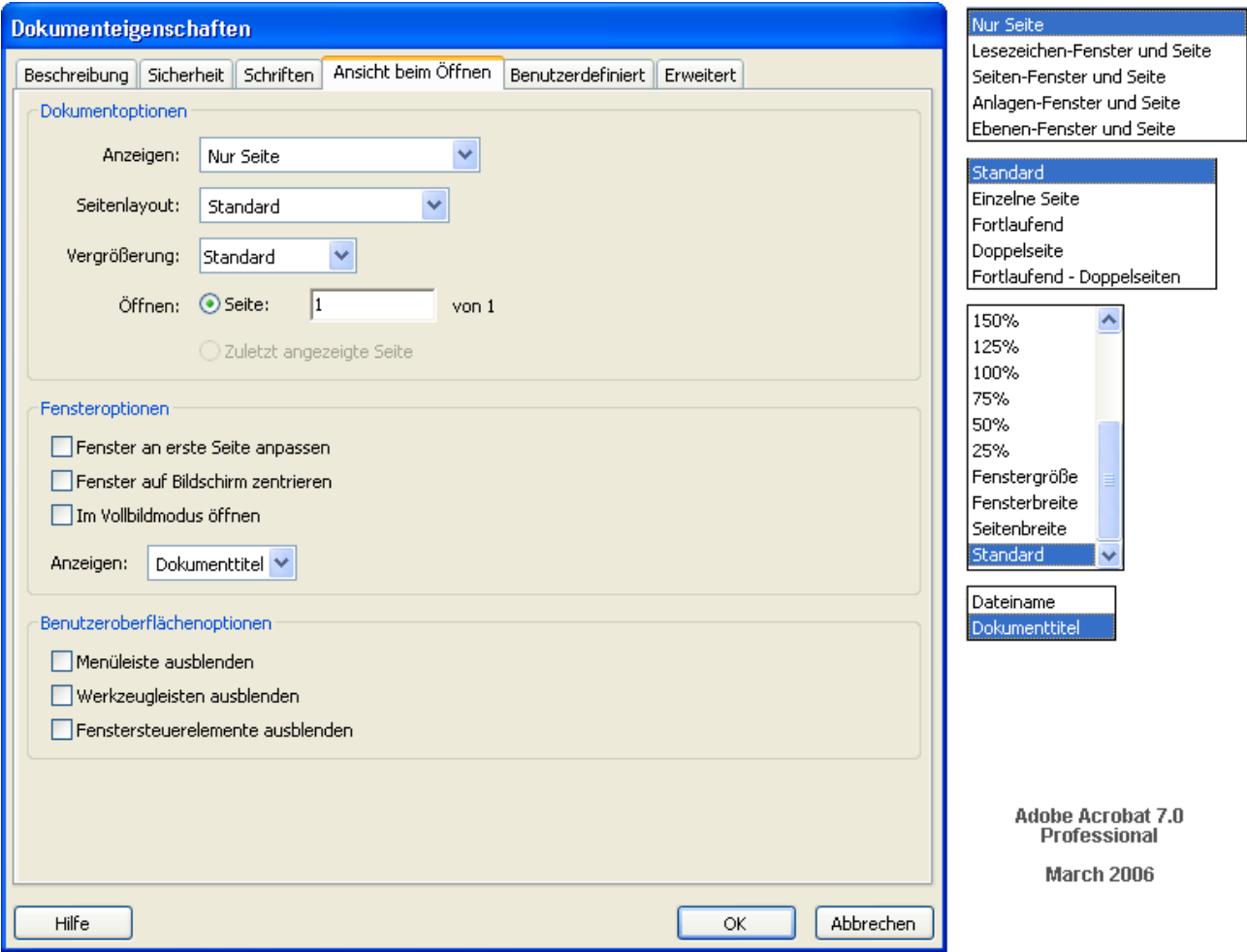


Illustration 10: Document Options Dialog in Adobe Acrobat 5

6.3 Adobe Acrobat 7 – German Version



385 Illustration 11: Document Properties Dialog of Adobe Acrobat 7 Professional

7 Document Change History

Rev.	Change	Initials	Date
1	new spec and capture state of the patch as a starting point.	MMP	Mar 6, 2006
2	completed i-Team	MMP	Mar 8, 2006
3	added string tables for English PL provided the configuration settings. Mnemonics for English strings removed Reset button default values are defined in the string tables.	MMP	Mar 9, 2006
4	Added German screen shot of Adobe Acrobat 7 to Competitive Analysis Final proposal for English and German strings “Main reading order for text” becomes a checkbox on the second tab. Request for approval	MMP	Mar 10, 2006

Rev.	Change	Initials	Date
5	added latest screen shots; changed configuration too match new UI word DirectionR2L should be changed to FirstPageOnLeft.	beppe c56	Mar 11, 2006
6	approved by UFI, bepec56 Help button is bottom left Changes in German strings "Benutzungs-" to "Benutzer-" "First page is left" depends on CTL setting	MMP	Mar 13, 2006
7	Help button is (and stays) bottom right	MMP	Mar 14, 2006
8	review by Frank Loehmann new default value for ExportNotes UseTaggedPDF=true would increase the file size significantly.	MMP	Mar 15, 2006
9	spec status change to "standard"	MMP	Mar 16, 2006
10	test case URL added	MMP	Mar 30, 2006
11	Incorporate beppec56's spec draft v1.1 for security settings Adjust panel layout, terminology and interactive logic Set Password dialog German strings Mnemonics for English and German strings	MMP	Jul 7, 2006
12	added link to Hasan's Test Description	MMP	Jul 31, 2006
13	added new fields for bookmarks, form fields, zoom level and first page	PL	Oct 20, 2006
14	Spec review by MMP, see tracked changes	MMP	Nov 6, 2006
15	Add section of "past" PDF specifications and supporting documents below. Quote general statement of PDF content in section 1.1	MMP	Nov 13, 2006

7.1 Related PDF Specifications and Documents

[PDF Export - UI specification v.1.0](#) , 29-Nov-2002, Ooo333 1.x / StarOffice 6.x

390 [PDF Export - UI specification v.1.1](#) , 4-Nov-2003, OOo 1.1 / StarOffice 6.x

[PDF Export Minutes](#), 28-Nov-2003

[PDF Export](#) 11-Oct-2005

[Outline Style Font Quality for PDF Export](#)

[Acrobat7-Security.odg](#)

395

[File Menu](#)