

PDF inFusion eReview 5.0

Developer Documentation



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PATENT PENDING

A patent application for PDF inFusion was submitted to the US Patent and Trademark Office (USPTO) in 2000. The patent on this invention is pending final approval by the USPTO.

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Chapter 1 Introduction

1.1 Overview

The developer documentation is designed to help database developers easily incorporate PDF inFusion eReview into a new or already existing application.

1.2 System Requirements

On the server:

- Domino 5.0.x or 6.x server running the HTTP server task

On the user's machine:

Windows:

- Windows 95, NT 4 with Service Pack 6, 98, ME, 2000, XP
- One of the following Acrobat viewers:
 - Acrobat Reader 4.05 or greater (Web Only)
 - Acrobat 4.05 or greater
 - Acrobat Approval 5 or greater
- One of the following:
 - Internet Explorer 5.0 or greater
 - Netscape 4.6 or greater
 - Lotus Notes 5.0 or greater. (Only if using Lotus Notes Client database)

****Note:** When using Windows 95 or Windows NT 4, the browser plug-ins will not be installed. Full eReview functionality will be available, but the user will be prompted to login when opening a review.

Macintosh:

- Mac OS 9.0 or greater. (See Section 4.1 for Mac OS X instructions)
- One of the following Acrobat viewers:
 - Acrobat Reader 4.05 or greater
 - Acrobat 4.05 or greater
 - Acrobat Approval 5 or greater
- One of the following web browsers:
 - Internet Explorer 5.0 or greater
 - Netscape 4.6 or greater

For specific hardware requirements, see the Adobe Acrobat system requirements.

1.3 Files Installed

Windows

- <Acrobat Plugins Folder>\PDFinFus\PDFinFus.api
Adobe Acrobat plug-in used to control PDF inFusion tools and annotations.
- <Acrobat Plugins Folder>\PDFinFus\WebComm.dll (Web Install only)
Module to handle communications via the web.
- <Acrobat Plugins Folder>\PDFinFus\NotesComm.dll (Notes Client Install only)
Module to handle communications with the Lotus Notes client.
- <Acrobat Plugins Folder>\PDFinFus\PDFAuthor.dll (Notes Client Install only)
Functions within the Lotus Notes client and translates a Microsoft word document to a PDF document. Requires Acrobat Distiller or PDF Writer, and Microsoft Word.
- <Acrobat Plugins Folder>\PDFinFus\PDFinFus.ocx (Notes Client Install only)
Control used to open the PDF within a Lotus Notes document.
- <Acrobat Plugins Folder>\PDFinFus\PDFinFusReg.exe (Notes Client Install only)
Executable used to register the plug-in.
- <Netscape Program Folder>\Plugins\npPDFi.dll (Web install only)
Netscape browser plug-in to facilitate web communications.
- <Common Files Folder>\PDFi Common\PDFiBrowserControl.ocx (Web install only)
Internet Explorer browser control to facilitate web communications.

Macintosh

- <Acrobat Plugins Folder>:PDFinFus:PDFiWebC (Adobe Acrobat 5)
Adobe Acrobat plug-in used to control all PDF inFusion tools and annotations.
- <Acrobat Plugins Folder>:PDFinFus:PDFiWeb (Adobe Acrobat 4)
Adobe Acrobat plug-in used to control all PDF inFusion tools and annotations.
- <Acrobat Plugins Folder>:PDFinFus:PDFiBrowserPlugin
Web browser plug-in to facilitate web communications.
- <Acrobat Plugins Folder>:PDFinFus:MW_MSL.Carbon.Shlb
Required shared library.
- <Acrobat Plugins Folder>:PDFinFus:MW_MSL.PPC.Shlb
Required shared library.

Chapter 2 Using eReview Elements Database

2.1 Overview

PDF inFusion eReview Elements is a fully functional eReview database. It can open a PDF in the Lotus Notes client or a web browser and allow the creation of PDF inFusion annotations; however, it contains no review process. The elements in this database are the foundation with which the PDF inFusion Review Template is built upon.

This section will show how the eReview Elements database can open a PDF and create annotations.

2.2 Opening a PDF and Adding Annotations

Creating the Main Document

1. Open the eReviewElements.nsf AddPDF form.

For Web:

- a. In a web browser go to:
`http://<server name>/<dbPath>/eReviewElements.nsf/AddPDF?OpenForm`
- b. Attach a PDF to the document, under Section 1 (WEB).

For Lotus Notes Client:

- a. In the Notes client, go to the Main view and click on Create\AddPDF from the menu.
- b. Attach a PDF in the "Attach a PDF" field under Section 1 (Lotus Notes Client).

2. Fill in Section 2 with the following data:

- a. Combo Box 1 label: Box 1
- b. Combo Box 1 values: B1value1, B1value2
- c. Combo Box 2 label: Box 2
- d. Combo Box 2 values: B2value1, B2value2
- e. Combo Box 3 label: Box 3
- f. Combo Box 3 values: B3value1, B3value2
- g. Combo Box 4 label: Box 4
- h. Combo Box 4 values: B4value1, B4value2

3. Fill in Section 3 with the following data:

- a. Allow Color Change: Yes
- b. Default Annotation Colors:
Note: Yellow

Strikethrough:	Blue
Rectangle:	Red
Highlighter:	Orange
Stamp:	Hot Pink
Line:	Green
Pencil:	Gray
Text:	Light Pink
Edit Marks:	Purple

c. Default Line Thickness:

Rectangle:	1
Strikethrough:	2
Line:	3
Stamp:	4
Pencil:	5

d. Launching the Annotation Dialog:

Highlighter:	Yes
Line:	Yes
Note:	Yes
Pencil:	Yes
Rectangle:	Yes
Stamp:	No
Strikethrough:	No
Text:	No
Edit Mark:	No
Edit Mark Selection Dialog:	No

4. Click on the “Save and Close” button. You will see “Form Processed”.

Opening the Main Document’s PDF

1. Go back to the database

For web:

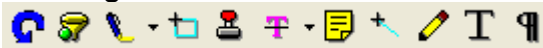
- a. In a web browser go to `http://<server name>/<dbPath>/eReviewElements.nsf`
- b. Click on PDFiWebViewer
- c. Click on the date of the document

For Lotus Notes Client:

- a. In the Lotus Notes client go to the PDFiClientViewer view
- b. Double click on the document

2. The PDF will open.

Creating Annotations



1. Once the document is opened, select one of the PDF inFusion annotation tools and create an annotation. For the annotations with “Launching the Annotation Dialog” option selected to “Yes” or left blank, the annotation dialog will appear - the color selector and combo box choices will be populated with the values previously entered on the AddPDF form.

Chapter 3 Adding eReview Functionality to an Application.

3.1 Overview

The browser and Lotus Notes client versions of PDF inFusion eReview may look similar but they use different database design elements in order to function. This section will explain which elements are needed to open a PDF in the browser and Lotus Notes client, and describe how each element plays a role within PDF inFusion.

3.2 Required Design Elements for the Web

The following design elements are necessary for PDF inFusion eReview to open a PDF over the web. When making your own application, copy these elements from the eReviewElements.nsf into your database.

1. CGI Reserved Fields (subform)
2. LaunchPDF (agent)
3. LaunchPDFObject (agent)
4. CreatePDFiObject (agent)
5. CreateXML (agent)
6. CreateAnnotation (agent)
7. DeleteAnnotation (agent)
8. eReviewJars (script library)
9. ITM Utilities (script library)
10. PDF Viewer (WebOnly) (form)
11. AddPDF (form)
12. Annotation (form)
13. Additional Annotation (form)
14. PDFiWebViewer (view)

3.3 Required Design Elements for the Client

The following design elements are necessary for PDF inFusion eReview to open a PDF in the Lotus Notes client. When making your own application, copy these elements from eReviewElements.nsf into your database.

1. Annotation (form)
2. Additional Annotation (form)

3. PDF Viewer (Notes Client)	(form)
4. AddPDF	(form)
5. ITM Utilities	(script library)
6. PDFiClientViewer	(view)

3.4 How it all works together

The AddPDF form is broken up into three sections:

- Section 1: The first section is the minimal amount of fields needed to get PDF inFusion to open a PDF over the web and in the Lotus Notes client. To locate a PDF over the web, specify a URL in the PDFFilename field or attach a PDF using the File Upload control. To locate a PDF using the Lotus Notes client, attach a PDF to a rich text field or specify a path to a PDF in the PDFFilename field.
- Section 2: The second section is for handling the combo boxes in the annotation dialog. Each combo box has a field for a label and a field to enter the choices for the combo boxes. When the fields for the combo box choices are not on the form or are left blank the combo boxes in the annotation dialog are hidden from the user.
- Section 3: The third section is used to control properties of the annotation. Annotation colors and line thickness can be initialized, as well as determine if the annotation dialog should open on annotation creation.

Opening the PDF relies on using the PDF Viewer forms for either the Web or the Lotus Notes client.

- The web PDF Viewer form calls the LaunchPDF agent which in turn calls the following agents: LaunchPDFObject, CreatePDFiObject, and CreateXML. Together these agents open the PDF and invoke the PDF inFusion Acrobat plug-in.
- The client PDF Viewer form uses LotusScript and an embedded control to communicate to the PDF inFusion Acrobat plug-in. The PostInit event of the PDF inFusion Control includes LotusScript to launch the PDF in the Lotus Notes client.

Creating and loading annotations uses the Annotation and Additional Annotation forms.

- When an annotation is first created and saved, the plug-in performs an HTTP POST to the CreateAnnotation agent, passing the annotation data to the agent and saving the annotation.
- The creation of additional comments to an existing annotation also performs an HTTP POST to the CreateAnnotation agent. The additional comments are saved as a new child document to the original annotation document.

Chapter 4 Advanced Features

4.1 Overview

Once PDF inFusion eReview is functioning, additional customization can be done using the advanced features discussed in this section.

4.2 Adding a Frame above the PDF (Web Only)

In the PDF inFusion Review Template a frame is created above the PDF containing the buttons for the review process. This functionality can easily be added to existing review functionality. From the eReviewElements.nsf database, the following elements will be needed:

1. PDFViewerFrameButtons (form)
2. CallLaunchPDFwReviewButtons (agent)
3. LaunchPDFwReviewButtons (agent)

Open the PDF Viewer form for the web in Lotus Domino Designer. Change the agent in the WebQueryOpen event from LaunchPDF to CallLaunchPDFwReviewButtons. When a main document is opened with the PDF Viewer form, a frame will now be displayed above the PDF. To modify the form in the top frame, open the PDFViewerFrameButtons form and customize it to fit your design.

To change the size of the frame, examine the sample code in RevisedNotesReview Script Library. Modify the library to reflect the desired frame size, and change LaunchPDFwReviewButtons to call the class NotesReviewRevised.

4.3 AddPDF Advanced Form

The eReviewElements.nsf database contains a form called AddPDF Advanced. This form contains additional fields which can be added to the AddPDF form to allow more control over the eReview process.

Default Color for People

The initial color for annotations can be set on a per-person basis.

1. Copy the field ColorPeople from the AddPDF Advanced form to your AddPDF form.
2. Add the people and colors in the following format: &Person~Color.
For example: &Chris Reviewer~Blue

In the example above, all of the annotations created by Chris Reviewer will default to the color blue.

Disabling Annotation Tools

A new feature in the 5.0 release is the ability to disable individual PDF inFusion tools, as well as make the review read-only.

To disable specific PDF inFusion tools:

1. Copy the “Enable...” fields for each tool from the AddPDF Advanced form to your AddPDF form.
2. To disable each of the tools, set the field to “No”.

To make the document read-only:

1. Copy the “ReadOnly” field from the AddPDF Advanced form to your AddPDF form.
2. To prohibit the creation or modification of annotations, as well as disable all the PDF inFusion tools set the “ReadOnly” field to “Yes”.

To make specific annotations read-only:

1. Create a field called “ReadOnly” on the annotation form.
2. Set the field to “Yes” on the annotation document which will be read-only.
3. When the PDF is opened the annotation with ReadOnly marked “Yes” will not allow modifications.

Chapter 5 Updating an Existing Database to the 5.0 Design

5.1 Overview

Updating an existing eReview database to the new design consists of several steps. The steps include updating the base functionality, updating the fields, and updating the review process.

****Note:** Please read this section before performing a design refresh or replace on the database.

5.2 Updating Base Functionality

This step is necessary whether you are updating a database that is based upon the PDF inFusion Review Template or your own custom application. To update the base functionality, the following agents and script libraries will need to be replaced or added from the eReviewElements.nsf database. If doing a refresh or replace design from the PDF inFusion Review Template, make sure these elements are updated from the template.

1. Copy over the “eReviewJars” script library.
2. Copy over the “LaunchPDFObject” agent.
3. Copy over the “CreatePDFiObject” agent.
4. Replace the “CreateXML” agent.
5. Replace the “CallLaunchPDFwReviewButtons” agent.
6. Replace the “LaunchPDFwReviewButtons” agent.
7. Replace the “LaunchPDF” agent.
8. Replace the “ITM Utilities” script library.

5.3 Updating the Fields

To add any additional features, see Chapter 4 Advanced features. Any features that your application does not currently implement can easily be added by following the steps in Chapter 4.

5.4 Updating the Review Process

The following functionality is new with Release 5.0.

****Note:** Read this section before doing a “Refresh Design” or a “Replace Design” on your existing database.

Review Template

Review Templates take the place of *Review Types* originally set in the Options of the database. *Review Types* were limited to five types and only controlled values for the annotation combo boxes. There can be an unlimited amount of *Review Templates* in the database. Each *Review Template* is a different document, which will set defaults for all fields used in starting a new review. A default *Review Template* can be used when the “New Review” form is first opened by setting the title of a template to “*”. Any values in the template labeled “*” will be the default values when an originator first opens the “New Review” form.

Performing a “Refresh Design” or a “Replace Design”

In order to transfer the values from the previous database Options page to the current *Review Template* you will need to do the following:

1. Refresh or Replace the design of the database.
2. Run the agent UpdateToReviewTemplate. The agent will create templates for each *Review Type* on the database Options page.
3. The Notification Setting from the Options page will have to be manually entered into the new *Review Templates*.

Upgrading to Review Templates without upgrading the entire database

To add the *Review Templates* functionality to the database without upgrading the entire database, copy the following design elements from the PDF inFusion Review Template database to your database:

1. ReviewTemplate (form)
2. ReviewTemplateClient (form)
3. reviewTemplates Client (view)
4. reviewTemplates (view)
5. UpdateToReviewTemplate (agent)
6. From the AddPDF form add the following to your AddPDF form:
 - a. ReviewType_PDF add the formula for the combo box choices as follows:
`@DbColumn("": "NoCache"; "";"reviewTemplates";1)`
 - b. Add an “Apply” button with formula to set each of the fields on your AddPDF form from the values in the selected template.
For example: FIELD EmailText :=
`@DbLookup("": "NoCache"; "";"reviewTemplates";ReviewType_PDF;"EmailText");`
 - c. To set the default review values when the AddPDF form is first opened, give the fields a default value formula such as:
`temps:=@DbColumn("": "NoCache"; "";"reviewTemplates";1);
@If(EmailText = ""; @If(@Contains(temps;"*");
@DbLookup("": "NoCache"; "";"reviewTemplates";"";"EmailText"); "Please review this document.");EmailText)`
7. Run the agent UpdateToReviewTemplate

Note: The ReviewTemplateClient form launches with the MainFrameClient Frameset. If you do not wish to use this frameset, open the ReviewTemplateClient form in Lotus Domino Designer and remove the launch options from the form’s properties.

Notifications

The notifications have been modified to store all values in a single field. Previously, notifications were limited to five for each type of notification. The new design allows for an unlimited number of notifications. After a “Refresh Design” or “Replace Design”, all reviews which have the previous storage for notifications will function properly with the new eReviewNotification agent. All newly created reviews will reflect the new fields and storage options.

The field “Notification” stores the values in the following format:

&PERSON=valuePerson&TYPE=valueType&VALUE=valueNotifyValue

TYPE can be a value of 1 to 4. 1 representing the first combo box, 2 representing the second, 3 representing the stamp options and 4 representing the final combo box.

For example: &PERSON=Chris Reviewer&TYPE=1&VALUE=Technical

When an annotation is created and the first combo box is saved with a value of “Technical”, Chris Reviewer will receive an email notifying him of the annotation.

Person-to-Color Association

Person-to-color association has been modified to store the values in a single field. This functionality was previously limited to only five people. The new design allows for an unlimited number of person-color associations. After a “Refresh Design” or “Replace Design”, all existing reviews which have the previous storage for person-to-color association will function properly with the new agents. All newly created reviews will reflect the new fields and storage options.

The field “ColorPeople” stores the person-to-color values in the following format:

&Person~Color

For example: &Chris Reviewer~Blue

Chris Reviewer’s annotations will default to blue for this review.

Chapter 6 Details of Elements

This section will explain the various design elements included in the eReview Elements Database.

6.1 Subforms

CGI Reserved Fields

The CGI Reserved Fields subform is used in the PDF Viewer (Web Only) form. The fields on this form are computed for display in order to always register the current web data.

6.2 Agents

LaunchPDF

This agent is called in the WebQueryOpen event of the PDF Viewer (Web Only) form. It creates the frameset which will call the CreatePDFiObject and LaunchPDFObject agents.

LaunchPDFObject

This agent is called during the loading of the eReview frameset to create a reference to the PDF file.

CreatePDFiObject

This agent is called during the loading of the eReview frameset to create a reference to the PDF inFusion web browser control or plug-in.

CreateXML

This agent is called by the Acrobat plug-in to request the review and annotation data via XML. This agent must be run as web user.

CreateAnnotation

This agent is called by the Acrobat plug-in to send new annotation data to the database. This agent must be run as web user.

DeleteAnnotation

This agent is called by the Acrobat plug-in to delete an annotation. The annotation is not actually deleted from the database. This agent simply sets the *Deleted* field on the Annotation document to "Yes".

CallLaunchPDFwReviewButtons

This agent calls the LaunchPDFwReviewButtons agent, which is used to replace LaunchPDF in order to open the PDF in a frameset.

LaunchPDFwReviewButtons

This agent creates the frameset which will call the CreatePDFiObject and LaunchPDFObject agents. It also creates a frame above the PDF which displays the PDFViewerFrameButtons form.

6.3 Script Libraries

eReviewJars

Contains the code necessary for all the web agents.

ITM Utilities

Code used in the CreatePDFiObject and LaunchPDFObject agents.

6.4 Forms

PDF Viewer (WebOnly)

This form must contain the CGI Reserved Fields subform and also must include a call to the LaunchPDF agent in the WebQueryOpen event.

PDF Viewer (Notes Client)

This form opens the PDF with PDF inFusion eReview functionality in the Lotus Notes Client. Make sure the document has an attached PDF or a path to a PDF in the PDFFilename field. The PDF inFusion Control must be embedded in this form for the PDF to be properly displayed.

AddPDF

This form is used to hold review data to be sent to the Acrobat plug-in. The name of the form is insignificant; however it must contain at a minimum the following data:

1. An attached PDF or a URL to a PDF. If using a URL to the PDF, the URL must be stored in the PDFFilename field.
2. A computed field called Attachments which contains the value. @AttachmentNames.

AddPDF Advanced

Additional options which can be added to the AddPDF form.

Annotation

This form must be called "Annotation". It is the form used when a new annotation is created. A document created with this form will contain the following fields:

1. Author – The creator of the annotation
2. Date – The date the annotation was created on
3. Text – Any annotation text submitted by the author.
4. Category – Value selected in combo box 1.
5. Action – Value selected in combo box 2.
6. Misc – Value for combo box 4, text used with the PDF inFusion text tool, the edit mark tool, or the stamp tool.
7. Type – Number representing the type of annotation used. Note = 1, Rectangle=2, Strikethrough=3, Highlighter=4, Stamp=5, Line=6, Pencil=7, Text=8, Edit Mark=9.
8. Page – The number of the page the annotation is on. The page numbering starts at 0.
9. Coordinates – The position of the annotation on the page.

10. Color – The color of the annotation.
11. Line Thickness – The line thickness of the annotation.
12. Private – When the private box is checked on an annotation, this field gets set to “Yes”. An annotation can only be set to private when it is first created. Setting an annotation to private allows only the creator of the annotation to see it.
13. Readers – When the private field is set to yes, the readers field is computed to contain the Author of the annotation.
14. Deleted – This field is set to “Yes” when the annotation is submitted for deletion.

Additional Annotation

This form must be called “Additional Annotation”. It is the form used for child documents of the Annotation form. Any comments made to an existing annotation are saved using this form.

1. Author – The creator of the annotation
2. Date – The date the annotation was created on
3. Text – Any annotation text submitted by the author.
4. Category – Value selected in drop down control 1. (See Section ??)
5. Action – Value selected in drop down control 2. (See Section ??)
6. Type – For additional annotations, type is always 50.
7. Page – The number of the page the annotation is on. The page numbering starts at 0.
8. Coordinates – The position of the annotation on the page.
9. Color – The color of the annotation.
10. Line Thickness – The line thickness of the annotation.
11. Private – When the private box is checked on an annotation, this field gets set to “Yes”. An annotation can only be set to private when it is first created. Setting an annotation to private allows only the creator of the annotation to see it.
12. Readers – When the private field is set to yes, the readers field is computed to contain the Author of the annotation.

PDFViewerFrameButtons

The form displayed in the frame above the PDF when opened in the browser.

6.5 Views

PDFiWebViewer

The view opens a document using the “PDF Viewer (Web Only) | viewerweb” form. The view also shows how to open a review document using a URL. In column 2 is the formula:

```
"[<a href=http://itmlns2.itmassociates.com/ajm/ereviewelements.nsf/LaunchPDF!OpenAgent&UNID=" + @Text(@DocumentUniqueID) + ">Call LaunchPDF Agent</a>]".
```

PDFiClientViewer

Opens a document using the “PDF Viewer (Notes Client) | viewerclient” form.

Main

The document is opened using the form in the “form” field on the document.

6.6 PDF inFusion ActiveX Methods and Properties

General Information

The Notes client version of PDF inFusion eReview utilizes an ActiveX control to display the PDF and communicate with the Acrobat plug-in. LotusScript can be used to obtain a handle to the PDF inFusion Control on the form in order to access any of the control's methods or properties.

Example - This script will navigate to the last page on the PDF being displayed in the control:

```
Dim PDFViewer as Variant
Set PDFViewer = uidoc.GetObject("PDF inFusion Control")
PDFViewer.LastPDFPage
```

Methods

- **bool ClosePDF();**
Closes the PDF Viewer Notes document. Returns true on success. Returns false on error.
- **long CopyToClipboard();**
Copies the selected text or graphic to the clipboard. Always returns zero.
- **bool FindPDFText(LPCTSTR text);**
Performs the Acrobat "Find" functionality. If an empty string is passed-in, the Find dialog is launched. Otherwise, the specified text is searched for. Returns true if the text was found, false otherwise.
- **bool FindPDFTextAgain();**
Performs the Acrobat "Find Again" functionality. Will navigate to the next hit from the last Find operation. Returns true if the text was found, false otherwise.
- **bool FirstPDFPage();**
Goes to the first page in the current PDF file. Returns true on success. Return false on error.
- **void GoBack();**
Goes to the previous view on the view history stack, if any.
- **void GoForward();**
Goes to the next view on the view history stack, if any.
- **bool GoToPage(long page);**
Goes to the zero-based page passed in through the parameter. Return true on success. False otherwise.
- **bool LaunchFilterDlg();**
Launches the filter dialog. Returns true on success. Return false on error.
- **bool LastPDFPage();**
Goes to the last page in the PDF file. Returns true on success. Return false on error.
- **bool NextPDFPage();**
Goes to the next page in the PDF file. Returns true on success. Return false on error.

- **short OpenPDFFile(LPCTSTR filename);**
Opens the PDF file specified in "filename". If "filename" is an empty string or an invalid path, returns 0; if the file is successfully opened, returns 1; and if the trial period has expired, returns -1.
- **short OpenPDFWithParams(LPCTSTR filename, short windowView, long pageNum, short viewMode, short zoomType, long zoomFactor);**
Opens a PDF file with the given viewing parameters:

Filename:	the PDF file to open
WindowView:	1=toolbar and side frame, 2=sideframe but no toolbar, 4=only page
pageNum:	the page number to open to
viewMode:	specifies view mode: 1=just document, 2=thumbs, 3=bookmarks
zoomType:	0=value in zoomFactor, 1=fit page, 2=fit width, 3=fit height, 4=fit visible width
zoomFactor:	if zoomType=0, specifies the zoom factor as a percentage

Return Value: 1 on success, 0 if invalid path or empty string, and -1 if trial period has expired.
- **long PDFPageNum();**
Returns the zero based page number. If error, returns -1;
- **long PDFSearch();**
Launches the Acrobat Search Plug-in's query dialog. Selecting a document from the results list will go to the first hit in the selected document only if the document is currently open. Return Value of nonzero on success, zero on failure.
- **bool PreviousPDFPage();**
Goes back one page in the PDF file. Returns true on success. Return false on error.
- **long PrintPDF();**
Launches the print dialog. Returns false if there was a problem or the user cancelled the dialog, otherwise true. This will only print to the default Windows printer as set in the win.ini file.
- **bool SaveAs();**
Launches the Acrobat "Save As..." dialog
- **bool SavePDF(LPCTSTR filename);**
Saves the PDF file silently and fires the PostSave event, passing the filename to it.
- **long SetPDFTool(short tool);**
Sets the current PDF tool. Always returns zero. The PDF tool choices are:
 - 0 = No tool selected
 - 1 = Note
 - 2 = Highlighter
 - 3 = Strikethrough
 - 4 = Rectangle
 - 5 = Rubber stamp

6 = Line

7 = Pencil

8 = Free Text

9 = Edit Marks

10 = Acrobat hand tool

11 = Acrobat text selection tool

12 = Acrobat graphics selection tool

13 = Acrobat zoom tool

14 = Annotation filter dialog

15 = Copy table

- **bool SetZoom(short zoomFactor);**
Sets the zoom factor, specified as a percentage (i.e., 100 is 100%).
- **void SetDBData(LPCSTR dochandle, LPCSTR dbserver, LPCSTR dbpath)**
Send the document handle, the database server, and the database path to the ocx.

Properties

- **PDFTitle** - Stores the title of the PDF file.
- **PDFPath** - Stores the path of the PDF file.

Chapter 7 Troubleshooting

7.1 FAQ

1. Cannot display a PDF in the browser.

Please refer to the link: <http://www.adobe.com/support/techdocs/93f2.htm>

2. The PDF loads in the browser but you cannot see PDF inFusion tools in the toolbar.

Verify that the PDF inFusion plug-in is loading.

- Windows: Bring Acrobat to the front. Click on the Help Menu. Under About Plug-ins you should see PDF inFusion. If using Acrobat 5 it will be under About 3rd Party Plug-ins.
- Macintosh: Bring Acrobat to the front. Click on the Apple Menu. Under About Plug-ins you should see PDF inFusion. If using Acrobat 5 it will be under About 3rd Party Plug-ins.
- Make sure the certified plug-ins only checkbox is deselected in Acrobat. Verify this under the Edit/Preferences/General - Options menu for Acrobat 5 and under File/Preferences/General for Acrobat 4.
- Make sure the CreateXML agent is present in the database. If it is, then the code may have been erased or corrupted. It must be replaced with the agent from the template.

3. Get “The page cannot be displayed” error message when trying to open a document or form on the web.

This error occurs when the signer of the agents in the database does not have unrestricted access to run agents on the server. (See Administration Documentation)

4. When trying to open a PDF inFusion document you repeatedly get the login and it does not open the document.

This can be caused by the signer of the agents not having at least editor access in the database ACL. (See Administration Documentation)

5. Get a “Communications error occurred while saving the annotation” error message, then “Error creating the annotation” error message while saving an annotation.

This can be caused by the CreateAnnotation agent not being present in the database or its code having been erased. The agent will need to be added or replaced from the template.

6. To assist the PDF inFusion Support team in troubleshooting a problem, it is often useful to create and send a log file. To create a log file:

- a. Open your Acrobat Application
- b. On Windows, in Acrobat 5, click on Help>About 3rd Party Plugins\PDF inFusion. In Acrobat 4, click on Help>About Plugins\PDF inFusion.

- c. On a Mac, in Acrobat 5, click on the Apple menu\About 3rd Party Plugins\PDF inFusion. In Acrobat 4, click on the Apple menu\About Plugin\PDF inFusion.
- d. Click on the *Log File* button. The Log window will open.
- e. If Log Path says “No Log File”, a log file does not exist and will need to be created. Click on *Create Log* button. Log Path will show the path to the log file and the information box will contain the log data.
- f. Close the Log window and the About dialog. Repeat the process that was causing the problem to allow the pertinent process information to be logged.
- g. Go to the file listed in Log Path on the Log dialog and send it to PDFiSupport@itproducts.com, along with a description of the problem you are encountering.

Chapter 8 PDF inFusion Support

8.1 Support

While this documentation provides the information you need to understand and use PDF inFusion eReview, there may be times when additional information or assistance is needed.

- If you purchased PDF inFusion from a PDF inFusion Business Partner, please contact the business partner for technical support. Your administrator will have all the contact information that you need.
- Otherwise, send your questions directly to ITM Products via email to: PDFiSupport@itmproducts.com.

ITM will provide timely responses to support questions from PDF inFusion users that have purchased a PDF inFusion Maintenance Agreement.

For the latest information on PDF inFusion products and services, please visit www.itmproducts.com.