

Kofax Power PDF

Automation Interface Guide

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KOFAX

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Introduction

This document details automation interfaces for Kofax Power PDF 4, for both 32-bit and 64-bit versions.

Interfaces – Overview

Power PDF provides the automation interfaces listed in the following table. These interfaces provide a wide range of functionality to control the application itself, and manage and manipulate PDF documents, their properties, pages, and annotations.

Interface	Lifetime	Description
IApp	Creatable	Controls the Power PDF application
IDDDoc	Creatable	Controls the PDF documents
IDVDoc	Creatable	Controls the view of PDF documents
IDDPAGE	Non-creatable	Accessible through IDDDoc interface. Controls the pages within the given PDF document
IDDBOOKMARK	Creatable	Designed to access bookmarks in PDF documents
iDDANNOT	Non-creatable	Accessible through IDDPAGE interface
IDVPageView	Non-creatable	Accessible through IDVDoc interface. Controls viewing PDF pages
iHiliteList	Creatable	This collection is designed to specify the location of highlighted contents within a PDF document.
iDDTextSelect	Creatable	This interface is designed to set and show the highlights within a PDF document.
ActiveXIEHelper	Creatable	This interface facilitates the movement to various pages within a document and specify various display and print choices.
iRect	Creatable	These interfaces are designed to set or retrieve special properties of different objects
ITime	Creatable	These interfaces are designed to set or retrieve special properties of different objects
IPoint	Creatable	These interfaces are designed to set or retrieve special properties of different objects

This documentation provides full details of these interfaces, and also gives usage examples.

It also provides the implementation details and relationships between the different interfaces.

Each section provides the definition of a particular method with its input and return parameters, along with a short description of its usage.

This documentation also includes an Examples chapter to show how various methods can be implemented. Method descriptions link to the corresponding examples.

IApp interface

The IApp interface is designed to drive the Power PDF application. It provides a control over the application main window and its UI elements, the ribbons, groups and tools, also to drop-down menus and toolbars. The opened documents are also accessible through the interface.

The application main window can be kept hidden if the automation client performs document level operations only.

Method Exit

Syntax:	VARIANT_BOOL Exit();
Parameters:	None
Return value:	VARIANT_TRUE, if powerpdf.exe exited properly.
Remarks:	Closes all opened documents and quits from the application.
Example:	Example 1 ; Example 2

Method CloseAllDocs

Syntax:	VARIANT_BOOL CloseAllDocs();
Parameters:	None
Return value:	Closes all documents opened in the application.
Remarks:	Closes all documents referred by the IDVDoc interface pointer. The DDDoc objects have to be closed by the Automation client application.
Example:	Example 2

Method GetActiveDoc

Syntax:	IDispatch* GetActiveDoc();
Parameters:	None
Return value:	Retrieves an interface to the active DVDoc object.
Remarks:	Use it to retrieve the topmost document selected by the user.

Method GetActiveTool

Syntax:	BSTR GetActiveTool();
Parameters:	None
Return value:	Returns with the name of the selected tool. The return value can be a NULL pointer.
Remarks:	Use it to retrieve the name of the selected tool.

Method GetDVDoc

Syntax:	IDispatch* GetDVDoc(long nIndex);
Parameters:	long nIndex: The identifier for the DVDoc object.
Return value:	Retrieves an interface to the DVDoc object identified by its index.
Remarks:	The application object maintains a list of open PDF documents. You can get any of them by referring to their index.

Method GetLanguage

Syntax:	BSTR GetLanguage();																																								
Parameters:	None																																								
Return value:	Returns the abbreviated string of the language. The available language codes are the following:																																								
	<table> <tr><td>ENU</td><td>- English</td></tr> <tr><td>DEU</td><td>- German</td></tr> <tr><td>FRA</td><td>- French</td></tr> <tr><td>NLD</td><td>- Dutch</td></tr> <tr><td>ITA</td><td>- Italian</td></tr> <tr><td>ESP</td><td>- Spanish</td></tr> <tr><td>PTB</td><td>- Brazilian</td></tr> <tr><td>SVE</td><td>- Swedish</td></tr> <tr><td>DAN</td><td>- Danish</td></tr> <tr><td>NOR</td><td>- Norwegian</td></tr> <tr><td>FIN</td><td>- Finnish</td></tr> <tr><td>CSY</td><td>- Czech</td></tr> <tr><td>HUN</td><td>- Hungarian</td></tr> <tr><td>PLK</td><td>- Polish</td></tr> <tr><td>RUS</td><td>- Russian</td></tr> <tr><td>TRK</td><td>- Turkish</td></tr> <tr><td>CHS</td><td>- Chinese Traditional</td></tr> <tr><td>CHT</td><td>- Chinese Simplified</td></tr> <tr><td>KOR</td><td>- Korean</td></tr> <tr><td>JPN</td><td>- Japanese</td></tr> </table>	ENU	- English	DEU	- German	FRA	- French	NLD	- Dutch	ITA	- Italian	ESP	- Spanish	PTB	- Brazilian	SVE	- Swedish	DAN	- Danish	NOR	- Norwegian	FIN	- Finnish	CSY	- Czech	HUN	- Hungarian	PLK	- Polish	RUS	- Russian	TRK	- Turkish	CHS	- Chinese Traditional	CHT	- Chinese Simplified	KOR	- Korean	JPN	- Japanese
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NOR	- Norwegian																																								
FIN	- Finnish																																								
CSY	- Czech																																								
HUN	- Hungarian																																								
PLK	- Polish																																								
RUS	- Russian																																								
TRK	- Turkish																																								
CHS	- Chinese Traditional																																								
CHT	- Chinese Simplified																																								
KOR	- Korean																																								
JPN	- Japanese																																								
Remarks:	Use this method to identify the product installation language.																																								

Method GetNumDVDocs

Syntax:	long GetNumDVDocs();
Parameters:	None
Return value:	Returns the number of opened documents.
Remarks:	You can use this method for enumeration of open documents.

Method Hide

Syntax:	VARIANT_BOOL Hide();
Parameters:	None
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Hides the application main window.

Method Show

Syntax:	VARIANT_BOOL Show();
Parameters:	None
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Makes the application main window visible.

Method Minimize

Syntax:	VARIANT_BOOL Minimize(long bMinimize);
Parameters:	long bMinimize: If a positive number than the application is minimized; If 0, application's normal state is restored.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Shows the application main window minimized.

Method Maximize

Syntax:	VARIANT_BOOL Maximize(long bMaximize);
Parameters:	long bMaximize: If a positive number then the application is maximized; If 0, application's normal state is restored.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Shows the application main window minimized.

Method Restore

Syntax:	VARIANT_BOOL Restore(long bRestore);
Parameters:	long bRestore: If a positive number, the application is restored to its original size and position and becomes active.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Shows the application main window maximized.

Method SetActiveTool

Syntax:	VARIANT_BOOL SetActiveTool(BSTR szButtonName, long bPersistent);
Parameters:	BSTR szButtonName: The name of the tool. long bPersistent: if a positive number, the tool will remain active after it has been used; 0 otherwise.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to activate a particular tool.

Method MenuItemExecute

Syntax:	VARIANT_BOOL MenuItemExecute(BSTR szMenuItemName);
Parameters:	BSTR szMenuItemName: Specifies the action to be performed.
Return value:	VARIANT_TRUE if the action was started otherwise VARIANT_FALSE.
Remarks:	Executes the action the same way as when the user presses the corresponding button or selects the application menu item.

Method MenuItemIsEnabled

Syntax:	VARIANT_BOOL MenuItemIsEnabled(BSTR szMenuItemName);
Parameters:	BSTR szMenuItemName: Specifies the action.
Return value:	VARIANT_TRUE if action exists with this name, it is enabled and can be executed. Otherwise return value is VARIANT_FALSE.
Remarks:	Use this method to check if a specific action is enabled and can be executed.

Method MenuItemIsMarked

Syntax:	VARIANT_BOOL MenuItemIsMarked(BSTR szMenuItemName);
Parameters:	BSTR szMenuItemName: Specifies the menu item.
Return value:	
Remarks:	Not supported in this release.

Method MenuItemRemove

Syntax:	VARIANT_BOOL MenuItemRemove(BSTR szMenuItemName);
Parameters:	BSTR szMenuItemName: Specifies the menu item.
Return value:	
Remarks:	Not supported in this release.

Method GetFrame

Syntax:	IDispatch* GetFrame();
Parameters:	None
Return value:	Return a reference to a Rect object.
Remarks:	Use this method to retrieve the position and the size of the main application window.

Method setFrame

Syntax:	VARIANT_BOOL setFrame(IDispatch* iRect);
Parameters:	IDispatch* iRect: Dispatch interface of a Rect object that specifies the coordinates of the main application window.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method if you want to specify the coordinates of the main application window.

Method ToolButtonsEnabled

Syntax:	VARIANT_BOOL ToolButtonsEnabled(BSTR szButtonName);
Parameters:	BSTR szButtonName: Specifies the toolbar button.
Return value:	
Remarks:	Not supported in this release.

Method ToolButtonRemove

Syntax:	VARIANT_BOOL ToolButtonRemove(BSTR szButtonName);
Parameters:	BSTR szButtonName: Specifies the toolbar button.
Return value:	
Remarks:	Not supported in this release.

Method GetPreferenceEx

Syntax:	VARIANT GetPreferenceEx(short nType);
Parameters:	short nType: Specifies the application preference item by its name.
Return value:	The value of the preference item.
Remarks:	Gets the value of a specific preference item.

Method SetPreferenceEx

Syntax:	VARIANT_BOOL SetPreferenceEx (short nType, VARIANT * pVal);
Parameters:	short nType: Name of the preference item. VARIANT * pVal: Value to be set.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Sets the value of a specific preference item.

Method Lock

Syntax:	VARIANT_BOOL Lock(BSTR szLockedBy);
Parameters:	BSTR szLockedBy: Used as the name of the application that locks Power PDF.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Locks the application. After calling this method, UnlockEx must be called. Prevents users from using the user interface of Power PDF. Also prevents opening any documents in the application.

Method UnlockEx

Syntax:	VARIANT_BOOL UnlockEx(BSTR szLockedBy);
Parameters:	BSTR szLockedBy: Used as the name of the application that locked Power PDF.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Unlocks the application. Must be called if Lock was called previously.

IDDDoc interface

This interface controls PDF documents at the file-level without involving user-interface related operations. The files can be opened, modified, saved and closed. The interface provides a number of page operations within and between the documents.

Method Create

Syntax:	VARIANT_BOOL Create();
Parameters:	None
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Creates a new PDF document. The file does not contain any pages.

Method Open

Syntax:	VARIANT_BOOL Open(BSTR szFullPath);
Parameters:	BSTR szFullPath: Specifies the PDF file to be opened.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to open the specified PDF file. A document opened in this way will not be displayed in the application window. Note that the maximum number of open documents is 50.
Example:	Example 1

Method Save

Syntax:	VARIANT_BOOL Save(short nType, BSTR szFullPath);
Parameters:	short nType: Specifies the method for how the document should be saved. The parameter can be a combination (with logical OR) of the following values. DDSaveIncremental (0) -- Write changes only, not the complete file. This will always result in a larger file, even if objects have been deleted. DDSaveFull (1) -- Write the entire file to the filename specified by szFullPath. DDSaveCopy (2) -- Write a copy of the file into the file specified by szFullPath, but keep using the old file. This flag can only be specified if DDSaveFull is also used. DDSaveCollectGarbage (32) -- Remove unreferenced objects; this often reduces the file size, and its usage is encouraged. This flag can only be specified if DDSaveFull is also used. DDSaveLinearized (4) -- Save the file optimized for the web, providing hint tables. This allows the PDF file to be byte-served. This flag can only be specified if DDSaveFull is also used. BSTR szFullPath: Specifies the file name. You are allowed to use the original file name that was used for the method Open.
Return value:	VARIANT_TRUE: if the saving operation succeeded.
Remarks:	Saves the content of the document to the specified file.
Example:	Example 1

Method Close

Syntax:	VARIANT_BOOL Close();
Parameters:	None
Return value:	VARIANT_TRUE, if the document was closed properly.
Remarks:	Closes the DDDoc object.
Example:	Example 1

Method DeletePages

Syntax:	VARIANT_BOOL DeletePages(long nStartPage, long nEndPage);
Parameters:	long nStartPage: Specifies the first page to be deleted. long nEndPage: Specifies the last page to be deleted.
Return value:	VARIANT_TRUE: if the operation succeeded.
Remarks:	Deletes the specified pages from the document.

Method GetFileName

Syntax:	BSTR GetFileName();
Parameters:	None
Return value:	Returns with the name of the file referenced by the DDDoc object.
Remarks:	Use it to retrieve the name of the opened document.

Method MovePage

Syntax:	VARIANT_BOOL MovePage(long nMoveAfterThisPage, long nPageToMove);
Parameters:	long nMoveAfterThisPage: Specifies the page number after which the moved page will be placed. long nPageToMove: Specifies the page to be moved.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Moves a page to a new position within the document.

Method ReplacePages

Syntax:	VARIANT_BOOL ReplacePages(long nStartPage, IDispatch* iDDDocSource, long nStartSourcePage, long nNumPages, long bMergeTextAnnotations);
Parameters:	<p>long nStartPage: Specifies the first page in the target document to be replaced. The next nNumPages pages will be replaced.</p> <p>IDispatch* iDDDocSource: Specifies the source document from where the document pages are copied.</p> <p>long nStartSourcePage: Specifies the first page of the source document to be moved.</p> <p>long nNumPages: Specifies the number of pages to be moved to the target document.</p> <p>long bMergeTextAnnotations: Set it to value 1, if you want to merge the annotations of the original and the new pages. In case of value 0 the text annotations will not be merged.</p>
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Replaces a given number of pages of the document with pages of another document. The annotations of the affected pages are optionally merged.

Method InsertPages

Syntax:	VARIANT_BOOL InsertPages(long nInsertPageAfter, IDispatch* iDDDocSource, long nStartPage, long nNumPages, long bBookmarks);
Parameters:	<p>long nInsertPagesAfter: Specifies a page in the target document after which the new pages will be inserted. Use a value of -1 to insert pages to the beginning of the document.</p> <p>IDispatch* iDDDocSource: Specifies the source document where the new pages are being inserted from.</p> <p>long nStartPage: Specifies the very first page of the source document that has to be inserted into the target document.</p> <p>long nNumPages: Specifies the number of pages following the start page to be inserted.</p> <p>long bBookmarks: Set this parameter to 1 to copy the bookmarks along with the pages. Note that all bookmarks will be copied even if they do not point to existing pages in the new document!</p>
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Copies one or more pages from a PDF document and places them after the specified page in the current PDF file.
Example:	Example 1 1. Inserting pages

Method GetFlags

Syntax:	long GetFlags();	
Parameters:	None	
Return value:	Returns the document flags. The return value is made by a logical OR operation of the following values.	
	DDDocNeedsSave = 1,	The document has been modified.
	DDDocRequiresFullSave = 2,	Incremental saving would not be enough. Use the DDSaveFull flag when document is saved.
	DDDocIsModified = 4,	The document is modified (e.g. bookmarks or annotations have been added).
	DDDocDeleteOnClose = 8,	The document is a temporary one. It has to be deleted when the file is closed.
	DDDocWasRepaired = 16,	The original document was repaired during the method DDDoc.Open. The reason for the repair might be a damaged or incorrectly saved PDF file.
	DDDocIsLinearized = 1024,	The document is linearized.
	DDDocIsOptimized = 2048	The document is optimized.
Remarks:	Use this method to retrieve the current state and other parameters of the document.	

Method SetFlags

Syntax:	VARIANT_BOOL SetFlags(long nFlags);
Parameters:	long nFlags: The required value of the document flags.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Sets the document flags. The possible values are described under the method GetFlags. Most of the flags are read-only and cannot be set or cleared. DDDocNeedsSave and DDDocDeleteOnClose flags can be set and cleared.

Method ClearFlags

Syntax:	VARIANT_BOOL ClearFlags(long nFlags);
Parameters:	long nFlags: Specify the document flags to be cleared.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Use this flag to clear document flags. Most of the flags are read-only and cannot be set or cleared. DDDocNeedsSave and DDDocDeleteOnClose flags can be set and cleared.

Method GetPageMode

Syntax:	long GetPageMode();
Parameters:	None
Return value:	The return value can be one the following: DDDontCare = 0, DDUseNone = 1, DDUseThumbs = 2, DDUseBookmarks = 3, DDFullScreen = 4
Remarks:	Use this method to retrieve the current page mode of the document. This property controls how the document is displayed initially: displays only the document pages, the pages and the thumbnails or the pages and the bookmarks. The document can also be displayed in full screen mode.

Method SetPageMode

Syntax:	VARIANT_BOOL SetPageMode(long nPageMode);
Parameters:	long nPageMode: Specifies the required Page Mode.
Return value:	VARIANT_TRUE if the Page Mode was set properly.
Remarks:	Sets the Page mode of the document. The possible values of the Page Mode property are described under the method GetPageMode.

Method OpenDVDoc

Syntax:	IDispatch* OpenDVDoc(BSTR szTitle);
Parameters:	BSTR szTitle: The title of the document view.
Return value:	Returns a DVDoc object referring to the DDDoc object.
Remarks:	Creates a DVDoc object associated to the DDDoc object. A new document view will be displayed that shows the document referred by the DDDoc object. This call makes the application visible if it was hidden originally.

Method DeleteThumbs

Syntax:	VARIANT_BOOL DeleteThumbs(long nStartPage, long nEndPage);
Parameters:	long nStartPage, nEndPage: These two values specify the interval of pages. The thumbnails of these pages will be removed from the file.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Remove embedded thumbnail images of the pages.

Method CreateThumbs

Syntax:	VARIANT_BOOL CreateThumbs(long nFirstPage, long nLastPage);
Parameters:	long nFirstPage, nLastPage: These two values specify the interval of pages. The thumbnails of these pages will be added to the file.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Create embedded thumbnail images of the pages or a range of pages.

Method GetInfo

Syntax:	BSTR GetInfo(BSTR szInfoKey);
Parameters:	BSTR szInfoKey: Specifies the key whose value is required.
Return value:	Retrieves the value of the specified key.
Remarks:	Use this method to retrieve the document information values such as 'Author', 'Title', etc.

Method SetInfo

Syntax:	VARIANT_BOOL SetInfo(BSTR szInfoKey, BSTR szBuffer);
Parameters:	BSTR szInfoKey: Specifies the key whose value has to be set. BSTR szBuffer: Specifies the value.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to set the different document information parameters, such as 'Author', 'Title', etc.

Method GetPermanentID

Syntax:	BSTR GetPermanentID();
Parameters:	None
Return value:	Returns the permanent ID of the document.

Method GetInstanceID

Syntax:	BSTR GetInstanceID();
Parameters:	None
Return value:	Returns the instance ID of the document.

Method CropPages

Syntax:	VARIANT_BOOL CropPages(long nStartPage, long nEndPage, short nEvenOrOddPagesOnly, IDispatch* iRect);
Parameters:	<p>long nStartPage: Specifies the first page to be cropped.</p> <p>long nEndPage: Specifies the last page to be cropped.</p> <p>short nEvenOrOddPagesOnly: 0 – Crop all pages in the range 1 – Crop odd pages in the range 2 – Crop even pages in the range</p> <p>IDispatch* iRect: Specifies the cropping rectangle. The coordinates should be given in user space.</p>
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Crops the pages in the given page range.

Method AcquirePage

Syntax:	IDispatch* AcquirePage(long nPage);
Parameters:	long nPage: Specifies the index of the page to be acquired.
Return value:	Returns a reference to the specified PDF page.
Remarks:	Use this method to retrieve a reference to a document page. The reference can be used for different page operations. The reference is the IDispatch interface of a DDPPage object.
Example:	Example 2 ; Example 3 ;

Method CreateTextSelect

Syntax:	IDispatch* CreateTextSelect(long nPage, IDispatch* iRect);
Parameters:	<p>long nPage: Specifies the page where the selection should be created.</p> <p>IDispatch* iRect: Specifies the area of the text selection.</p>
Return value:	Returns a reference to a text selection object.
Remarks:	Use this method to create a text selection based on a specific area of a page.

Method GetNumPages

Syntax:	long GetNumPages();
Parameters:	None
Return value:	Returns the number of pages in the document.

Method GetJSObject

Syntax:	IDispatch GetJSObject();
Parameters:	None
Return value:	Returns the JavaScript object for this document.
Remarks:	With the use of the JavaScript Object it is possible to run JavaScript code.
Example:	Example 5:

IDVDoc interface

This interface is strongly related to the DDDoc interface. While DDDoc provides the file-level operations, this interface supplies methods to support viewing documents. Similarly to the other interface, you can open and close documents using DVDoc methods, but all of them control the document window and make that visible along with the application main window. The strong relationship between IDVDoc and DDDoc is represented with the method of GetDDoc that gives access to file level operations on the document opened in the document window.

Method GetDDoc

Syntax:	IDispatch* GetDDoc()
Parameters:	None
Return value:	Returns the IDispatch interface of the associated DDDoc object.
Remarks:	This method is used for getting access to the DDDoc object of the DVDoc object. You may need this method if you want to reach the properties of the DDDoc object or call its methods.
Example:	Example 2 ; Example 3 ;

Method Open

Syntax:	VARIANT_BOOL Open(BSTR szFullPath);
Parameters:	BSTR szFullPath: Specifies the PDF file or a document type that can be converted to PDF in Power PDF.
Return value:	Return VARIANT_TRUE if the file was opened.
Remarks:	Opens the specified file and displays it in a child window of the main application window.
Example:	Example 2 ; Example 3 ;

Method Close

Syntax:	VARIANT_BOOL Close(long bNoSave);
Parameters:	long bNoSave: Set it to 1 if you do not want to save the file; 0 value means that the application prompts for saving modifications.
Return value:	Return value is VARIANT_TRUE if the file was closed properly.
Remarks:	This method closes the document along with its window.

Method PrintPages

Syntax:	VARIANT_BOOL PrintPages(long nFirstPage, long nLastPage, long nPSLevel, long bBinaryOk, long bShrinkToFit);
Parameters:	nFirstPage: The first page to be printed. It is zero-based. nLastPage: The last page to be printed. nPSLevel: If 2, PostScript Level 2 operators are used; if 3, PostScript Language Level 3 operators are also used. bBinaryOk: If 0, all data is encoded as 7-bit ASCII; if a positive number, binary data may be included in the PostScript program. bShrinkToFit: If a positive number, the page is shrunk to fit within the usable area of the printed page; if 0, it is not.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Displays the Print dialog and prints the specified range of pages.

Method PrintPagesSilent

Syntax:	VARIANT_BOOL PrintPagesSilent(long nFirstPage, long nLastPage, long nPSLevel, long bBinaryOk, long bShrinkToFit);
Parameters:	nFirstPage: The first page to be printed. It is zero-based. nLastPage: The last page to be printed. nPSLevel: If 2, PostScript Level 2 operators are used; if 3, PostScript Language Level 3 operators are also used. bBinaryOk: If 0, all data is encoded as 7-bit ASCII; if a positive number, binary data may be included in the PostScript program. bShrinkToFit: If a positive number, the page is shrunk to fit within the usable area of the printed page; if 0, it is not.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Prints the specified ranges of pages without displaying the Print dialog box.

Method GetTitle

Syntax:	BSTR GetTitle();
Parameters:	None
Return value:	Returns the title of the of the window associated with the document.

Method Maximize

Syntax:	VARIANT_BOOL Maximize(long bMaxSize);
Parameters:	long bMaxSize: If the value of the input parameter is greater than zero the document window is within the application main window.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to maximize the size of the document window associated to the DVDoc object.

Method GetFrame

Syntax:	IDispatch* GetFrame();
Parameters:	None
Return value:	Returns the IDispatch interface of a Rect object specifying the coordinates of the window associated with the document.
Remarks:	The returned IDispatch interface refers to the CPowerPDFRect object that contains the coordinates of the document window.

Method IsValid

Syntax:	VARIANT_BOOL IsValid();
Parameters:	None
Return value:	Returns VARIANT_TRUE if the document is a valid PDF document.

Method GetViewMode

Syntax:	long GetViewMode();
Parameters:	None
Return value:	The return value indicates how the document is displayed.
Remarks:	The possible return values can be the following: DDDontCare: 0 -- leave the view mode as it is. DDUseNone:1 -- display without bookmarks or thumbnails. DDUseThumbs:2 -- display using thumbnails. DDUseBookmarks:3 -- display using bookmarks. DDFullScreen:4 -- display in full screen mode.

Method SetViewMode

Syntax:	VARIANT_BOOL SetViewMode(long nType);
Parameters:	long nType
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to modify the view of the document. The possible values are listed under the GetViewMode method.

Method GetDVPageView

Syntax:	IDispatch* GetDVPageView();
Parameters:	None
Return value:	The method returns the IDispatch interface of the DVPageView object.
Remarks:	Use this method if you need access to methods in the IDVPageView interface.

Method SetTextSelection

Syntax:	VARIANT_BOOL SetTextSelection(IDispatch* iDDTextSelect);
Parameters:	IDispatch* iDDTextSelect: Reference to an iDDTextSelect object that specifies the text selection in the document.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to set the required text selection.
Example:	Example 3 ;

Method ShowTextSelect

Syntax:	VARIANT_BOOL ShowTextSelect();
Parameters:	None
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Call this method to show the selected text.
Example:	Example 3 ;

Method ClearSelection

Syntax:	VARIANT_BOOL ClearSelection();
Parameters:	None
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Call this method to clear the text selection.

Method BringToFront

Syntax:	VARIANT_BOOL BringToFront();
Parameters:	None
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Makes the document window topmost among other document windows within the application window. This window gets the focus.

Method SetTitle

Syntax:	VARIANT_BOOL SetTitle(BSTR szTitle);
Parameters:	BSTR szTitle: Specifies the new title of the document window.
Return value:	VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to change the title of the document window.

Method PrintPagesEx

Syntax:	VARIANT_BOOL PrintPagesEx(long nFirstPage, long nLastPage, long nPSLevel, long bBinaryOk, long bShrinkToFit, long bReverse, long bFarEastFontOpt, long bEmitHalftones, long iPageOption);
Parameters:	<p>nFirstPage: The first page to be printed. It is zero-based.</p> <p>nLastPage: The last page to be printed.</p> <p>nPSLevel: If 2, PostScript Level 2 operators are used; if 3, PostScript Language Level 3 operators are also used.</p> <p>bBinaryOk: If 0, all data is encoded as 7-bit ASCII; if a positive number, binary data can be included in the PostScript program.</p> <p>bShrinkToFit: If a positive number, the page is shrunk to fit within the usable area of the printed page; if 0, it is not.</p> <p>bReverse: (PostScript printing only) If a positive number, print the pages in reverse order. If 0, print the pages in the regular order.</p> <p>bFarEastFontOpt: (PostScript printing only) Set to a positive number if the destination printer has multi-byte fonts; set to 0 otherwise.</p> <p>bEmitHalftones: (PostScript printing only) If a positive number, emit the halftones specified in the document. If 0, do not.</p> <p>iPageOption: Pages in the range to print. Must be one of: DDAllPages (-3), DDEvenPagesOnly (-4), or DDOddPagesOnly (-5).</p>
Return value:	Returns VARIANT_TRUE if the operation succeeded.
Remarks:	Displays the Print dialog box and prints the specified pages.

Method PrintPagesSilentEx

Syntax:	VARIANT_BOOL PrintPagesSilentEx(long nFirstPage, long nLastPage, long nPSLevel, long bBinaryOk, long bShrinkToFit, long bReverse, long bFarEastFontOpt, long bEmitHalftones, long iPageOption);
Parameters:	<p>long nFirstPage: The first page to be printed. It is zero-based.</p> <p>long nLastPage: The last page to be printed.</p> <p>long nPSLevel : If 2, PostScript Level 2 operators are used; if 3, PostScript Language Level 3 operators are also used.</p> <p>long bBinaryOk: If 0, all data is encoded as 7-bit ASCII; if a positive number, binary data may be included in the PostScript program.</p> <p>long bShrinkToFit: if a positive number, the page is shrunk to fit within the usable area of the printed page; if 0, it is not.</p> <p>long bReverse: (PostScript printing only) If a positive number, print the pages in reverse order. If 0, print the pages in the regular order.</p>

	long bFarEastFontOpt: (PostScript printing only) Set to a positive number if the destination printer has multi-byte fonts; set to 0 otherwise.
	long bEmitHalftones: (PostScript printing only) If a positive number, emit the halftones specified in the document. If 0, do not.
	long iPageOption: Pages in the range to print. Must be one of: DDAllPages (-3), DDEvenPagesOnly (-4), or DDOddPagesOnly(-5).
Return value:	Returns VARIANT_TRUE if the operation succeeded.
Remarks:	Prints the specified pages silently without displaying the Print dialog box.

Method GetParentDDDoc

Syntax:	IDispatch* GetParentDDDoc();
Parameters:	None
Return value:	Returns the IDispatch interface of a Doc object or NULL if the function fails.
Remarks:	Returns a reference to the parent document if the document is inside a package, otherwise NULL.

Method FindText

Syntax:	VARIANT_BOOL FindText(BSTR szText, long bCaseSensitive, long bWholeWordOnly, long bReset);
Parameters:	BSTR szText: Text to be found
	long bCaseSensitive: 0 – not case-sensitive; positive number – case-sensitive
	long bWholeWordOnly: 0 – only whole words are matched; positive number – partial words are matched
	long bReset: 0 – search starts from current page; positive number – search starts from the beginning of the document
Return value:	Returns VARIANT_TRUE if text is found.
Remarks:	Use this method to find text in the document and make it visible by scrolling the document to the text. The text will be highlighted.

Method OpenInWindowEx

Syntax:	VARIANT_BOOL OpenInWindowEx(BSTR szFullPath, long hWnd, long openFlags, long useOpenParams, long pgNum, short pageMode, short zoomType, long zoom, short top, short left);
Parameters:	BSTR szFullPath: Specifies the PDF file to be opened.
	long hWnd: Handle for the window in which the file is displayed
	long openFlags: AV_EXTERNAL_VIEW - display the pageview, scrollbars, toolbars, and bookmark pane

AV_DOC_VIEW - display the pageview, scrollbars, and bookmark pane
AV_PAGE_VIEW - display only the pageview

long useOpenParams: 0 - document defined open action is used; positive number – open action is defined in methods's parameters

long pgNum: page number to be opened. Valid if useOpenParams is positive

short pageMode:

DDDontCare = 0, leave the mode as it is

DDUseNone = 1, display without bookmark

DDUseThumbs = 2, display using thumbnails

DDUseBookmarks = 3, display using bookmarks

DDFullScreen = 4, display in full screen mode

short zoomType:

DVZoomNoVary (0) A fixed zoom, such as 75%

DVZoomFitPage (1) Fits the page in the window

DVZoomFitWidth (2) Fits the page width to the window

DVZoomFitHeight (3) Fits the page height to the window

DVZoomFitVisibleWidth (4) Fits the visible content of the page width into the window

long zoom: Zoom factor, used only for DVZoomNoVary if useOpenParams is a positive number

short top: Currently not used

short left: Currently not used

Return value: Returns VARIANT_TRUE if the operation succeeded.

Remarks: Opens a file in a user-specified window.

IDDPAGE Interface

This interface represents a page of a PDF document. Certain page level operations – cropping, rotating pages – and managing annotations and text highlights can be performed by its methods. The interface can be retrieved by the method `AcquirePage` of the `DDDoc` interface.

Method GetRotate

Syntax:	<code>short GetRotate();</code>
Parameters:	None
Return value:	The method returns the rotation value of the page in degrees. The possible values are listed under the method <code>SetRotate</code>
Remarks:	Use this method to determine the rotation degree of the page.

Method SetRotate

Syntax:	<code>VARIANT_BOOL SetRotate(short nRotate);</code>
Parameters:	<code>short nRotate</code> : Rotates the page with the given degree. The acceptable values are 0, 90, 180 and 270.
Return value:	The method returns <code>VARIANT_TRUE</code> if the operation succeeded.
Remarks:	This method influences the view of the document page. To make changes permanent, the PDF file has to be saved.

Method GetNumAnnots

Syntax:	<code>long GetNumAnnots();</code>
Parameters:	None
Return value:	This method returns the number of annotations on the given page.
Remarks:	The method is used typically when the annotations have to be enumerated.
Example:	Example 4 ;

Method RemoveAnnot

Syntax:	<code>VARIANT_BOOL RemoveAnnot(long nIndex);</code>
Parameters:	<code>long nIndex</code> : Specifies the index of the annotation to be deleted from the page. First annotation has 0 index
Return value:	The method returns <code>VARIANT_TRUE</code> if the operation succeeded.
Remarks:	Removes specified annotation from the page.

Method GetNumber

Syntax:	long GetNumber();
Parameters:	None
Return value:	This method retrieves the index of the page. Note that the page indexes start from zero.
Remarks:	Certain methods expect a page index as input parameter. Use this method to retrieve the appropriate value for the given page.

Method CropPage

Syntax:	VARIANT_BOOL CropPage(IDispatch* iRect);
Parameters:	IDispatch* iRect: The IDispatch interface to a Rect object that determines the size of the crop area of the page.
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Use the method to adjust the visible area of the page. The coordinates have to be given in user space.

Method GetAnnot

Syntax:	IDispatch* GetAnnot(long nIndex);
Parameters:	long nIndex: Specifies the index of the requested annotation on the page.
Return value:	The method retrieves the IDispatch interface of the selected annotation (DDAnnot) object.
Remarks:	Use this method to retrieve the given page annotation. The properties of the annotation can be accessed through the returned interface pointer.

Method AddAnnot

Syntax:	VARIANT_BOOL AddAnnot(long nIndexAddAfter, IDispatch* iDDAnnot);
Parameters:	<p>long nIndexAddAfter: Specifies the index of the new annotation. The annotation will be inserted after the specified index. Use a value of -1 in case of insertion at the very first position or if the given annotation is the first one on the page.</p> <p>IDispatch* iDDAnnot: The reference to the annotation to be inserted. Note that the DDAnnot object is not a creatable one. You can get this interface pointer using other methods of the IDDPPage interface.</p>
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Use the method to add an annotation to the page. Typical usage of the method is to copy or move existing annotations to another page. The annotation can also be retrieved from another document. To create a new annotation, use the method AddNewAnnot.

Method AddNewAnnot

Syntax:	IDispatch* AddNewAnnot(long nIndexAddAfter, BSTR szSubType, IDispatch* iRect);
Parameters:	<p>long nIndexAddAfter: Specifies the index of the new annotation. The annotation will be inserted after the specified index. Use a value of -1 in case of insertion at the very first position or if the given annotation is the first one on the page.</p> <p>BSTR szSubType: Specifies the type of annotation. It supports the "Text" subtype only.</p> <p>IDispatch* iRect: The IDispatch interface of a Rect object specifies the location and the size of the annotation.</p>
Return value:	The method returns the IDispatch interface of the new DDAnnot object, if the insertion succeeded. You can use this value to set additional properties of the annotation (e.g. color). The return value is NULL if the operation failed.
Remarks:	Use this method to create a new annotation on the given page.
Example:	Example 3;

Method GetDoc

Syntax:	IDispatch* GetDoc();
Parameters:	None
Return value:	This method returns the IDispatch interface of the DDDoc object associated to the IDDPPage object.

Method GetAnnotIndex

Syntax:	long GetAnnotIndex(IDispatch* iDDAnnot);
Parameters:	IDispatch* iDDAnnot: The IDispatch interface of the DDAnnot object whose index has to be retrieved.
Return value:	The method returns the zero-based index of the given annotation.

Method GetSize

Syntax:	IDispatch* GetSize();
Parameters:	None
Return value:	The method returns the IDispatch interface of a Point object.
Remarks:	Use this method to retrieve the size of the page measured in points.

Method CreateWordHilite

Syntax:	IDispatch* CreateWordHilite(IDispatch* iHiliteList);
Parameters:	IDispatch* iHiliteList: Specifies the series of characters to be highlighted.
Return value:	The method returns the IDispatch interface of a DDTextSelect object.
Remarks:	The method is used for highlighting a series of words on the given page. The DDHiliteList object may specify several series of words.
Example:	Example 2 Example 2 –;

Method CreatePageHilite

Syntax:	IDispatch* CreatePageHilite(IDispatch* iHiliteList);
Parameters:	IDispatch* iHiliteList: Specifies the series of characters to be highlighted.
Return value:	The method returns the IDispatch interface of a DDTextSelect object.
Remarks:	The method is used for highlighting a series of characters on the given page. The DDHiliteList object may specify several series of characters.
Example:	The example provided for the method CreateWordHilite is applicable with the appropriate changes. See Example 3

Method DrawEx

Syntax:	VARIANT_BOOL DrawEx (long window, long displayContext, IDispatch * updateRect, short nxOrigin, short nyOrigin, short zoom);
Parameters:	<p>long window: Handle for the window into which the content is to be drawn</p> <p>long displayContext: Not used, leave it zero.</p> <p>IDispatch * updateRect: Reference to the area of the page in user space coordinates to be drawn. Any content outside the area will not be drawn.</p> <p>short nxOrigin: X coordinate of the part of the page to be drawn.</p> <p>short nyOrigin: Y coordinate of the part of the page to be drawn.</p> <p>short zoom: Zoom value with which page content will be drawn as a percentage. 100 means magnification 1</p>
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Draws the specified part of the page into a user-specified window.

Method CopyToClipboard

Syntax:	VARIANT_BOOL CopyToClipboard (IDispatch * boundRect, short nXOrigin, short nYOrigin, short nZoom);
Parameters:	<p>IDispatch * boundRect: Reference to the bounding rect in device space coordinates to be drawn. Any content outside the area will not be drawn.</p> <p>short xOrigin: X coordinate of the part of the page to be drawn.</p> <p>short yOrigin: Y coordinate of the part of the page to be drawn.</p> <p>short zoom: Zoom value with which page content will be drawn as a percentage. 100 means magnification 1</p>
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Copies page content as an image to the clipboard. This method is only available on 32-bit systems.

IDDBookmark interface

This interface provides access to bookmarks in documents. New bookmarks cannot be created with the OLE Automation interface but can be destroyed. Basically, bookmarks are designed to navigate to specified portions of the document.

Method Destroy

Syntax:	VARIANT_BOOL Destroy ();
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Removes bookmark from the document.

Method GetByTitle

Syntax:	VARIANT_BOOL GetByTitle (IDispatch *IDDDoc, BSTR bookmarkTitle);
Parameters:	IDispatch * IDDDoc: Reference to the document object to get the bookmark from. BSTR bookmarkTitle: Title of the bookmark to get. Title is case-sensitive.
Return value:	The method returns VARIANT_TRUE if bookmark exists with the given title and the operation succeeded.
Remarks:	Gets bookmark by its title. The bookmark is not the return value of the document. The object's reference is set to the bookmark instead.

Method GetTitle

Syntax:	BSTR GetTitle ();
Parameters:	None
Return value:	Returns the title of the bookmark object.

Method IsValid

Syntax:	VARIANT_BOOL IsValid ();
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the bookmark is valid.
Remarks:	It does not make a thorough test on the bookmark's data structure.

Method Perform

Syntax:	VARIANT_BOOL Perform (IDispatch * IDVDoc);
Parameters:	IDispatch * IDVDoc: Reference to the document object where the bookmark exists.
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Performs an action of the bookmark.

Method SetTitle

Syntax:	VARIANT_BOOL SetTitle (_bstr_t szNewTitle);
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Sets the title of the bookmark.

iDDAnnot interface

This interface provides access to properties of the annotations, like color, date, title, content, coordinates measured in user space, open state, subtype. Because the list of annotations is maintained by the DDPPage object, the interface is accessible by method DDPPage::GetAnnot. The annotations are identified by their index within the given page. You can also add annotations to a page using the DDPPage object. Please note that only annotations having subtype “Text” are creatable.

Method GetColor

Syntax:	long GetColor();
Parameters:	None
Return value:	The method returns the color of the annotation in RGB values. The values are represented in this form: 0xBBGGRR. So, the value of 0xFF (255) represents a light red color, 0xFF00 (65280) is a light green value and 0xFF0000 (16711680) is a light blue.

Method SetColor

Syntax:	VARIANT_BOOL SetColor(long nRGBColor);
Parameters:	long nRGBColor: Specifies the color of the annotation
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Example:	Example 4

Method GetDate

Syntax:	IDispatch* GetDate();
Parameters:	None
Return value:	The method returns an IDispatch interface to a Time object.
Remarks:	Use the properties of the Time object to retrieve the date of the annotation.

Method SetDate

Syntax:	VARIANT_BOOL SetDate(IDispatch* ITime);
Parameters:	IDispatch* ITime: Specifies the creation time of the annotation.
Return value:	The method returns VARIANT_TRUE if the operation succeeded.

Method GetRect

Syntax:	IDispatch* GetRect();
Parameters:	None
Return value:	The method returns the IDispatch interface for the Rect object
Remarks:	The method returns the bounding rectangle of the annotation. Use the properties of the Rect object to determine the location of the annotation on the page.

Method SetRect

Syntax:	VARIANT_BOOL SetRect(IDispatch* iRect);
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to set or change the location and size of the annotation.

Method GetTitle

Syntax:	BSTR GetTitle();
Parameters:	None
Return value:	The method returns the title of the annotation.

Method SetTitle

Syntax:	VARIANT_BOOL SetTitle(BSTR szTitle);
Parameters:	
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to set or change the title of the annotation.

Method GetSubType

Syntax:	BSTR GetSubtype();
Parameters:	None
Return value:	The method returns the subtype property of the annotation.

Method IsValid

Syntax:	VARIANT_BOOL IsValid();
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the annotation is valid.
Remarks:	The method verifies the annotation object and checks whether or not it is deleted.

Method IsOpen

Syntax:	VARIANT_BOOL IsOpen();
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the text annotation is open.
Remarks:	This method verifies whether or not a text annotation is open.

Method SetOpen

Syntax:	VARIANT_BOOL SetOpen(long blsOpen);
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to open a text annotation.

Method GetContents

Syntax:	BSTR GetContents();
Parameters:	None
Return value:	The method retrieves the content of an annotation.

Method SetContents

Syntax:	VARIANT_BOOL SetContents(BSTR szContents);
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to set or modify the content of the annotation.
Example:	Example 3 ;

Method IsEqual

Syntax:	VARIANT_BOOL IsEqual(IDispatch* iDDAnnot);
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the two compared annotations are equal.
Remarks:	The method determines whether or not the current annotation is the same as a specified one.

Method Perform

Syntax:	VARIANT_BOOL Perform(IDispatch* IDVDoc);
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	The method refers to Link type annotations. It performs the action associated with the Link object.

IDVPageView

Similarly, to the DVDoc interface, this interface provides a set of methods related to viewing PDF pages. The interface is not creatable, but accessible via the method GetDVPageView in the DVDoc interface.

Method DoGoBack

Syntax:	VARIANT_BOOL DoGoBack();
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	The application tracks the views displayed in each document window. Use this method to step back to the previous view of the document window.

Method DoGoForward

Syntax:	VARIANT_BOOL DoGoForward();
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	The application tracks the views displayed in each document window. Use this method to step forward to the next view of the document window.

Method GetDVDoc

Syntax:	IDispatch* GetDVDoc();
Parameters:	None
Return value:	The method returns the IDispatch interface of the DVDoc object displayed in the page view.
Remarks:	Use this method to retrieve the DVDoc object displayed in the view.

Method GetDoc

Syntax:	IDispatch* GetDoc();
Parameters:	None
Return value:	The method returns the IDispatch interface of the DDDoc object displayed in the page view.
Remarks:	Use this method to retrieve the DDDoc object displayed in the view.

Method GetPage

Syntax:	IDispatch* GetPage();
Parameters:	None
Return value:	The method returns the IDispatch interface of the DDPAGE object referring to the current PDF page displayed in the page view.
Remarks:	Use this method to retrieve the DDPAGE object displayed in the view.

Method GetPageNum

Syntax:	long GetPageNum();
Parameters:	None
Return value:	The method returns the zero-based index of the current PDF page displayed in the page view.
Remarks:	Use this method to retrieve the index of the displayed page.

Method GetZoom

Syntax:	long GetZoom();
Parameters:	None
Return value:	The method returns the current zoom factor as a percentage.

Method GetZoomType

Syntax:	short GetZoomType();										
Parameters:	None										
Return value:	The method return a given zoom type.										
Remarks:	<p>The possible return values are the following:</p> <table border="0"> <tr> <td>DVZoomNoVary (0)</td> <td>A fixed zoom, such as 75%</td> </tr> <tr> <td>DVZoomFitPage (1)</td> <td>Fits the page in the window</td> </tr> <tr> <td>DVZoomFitWidth (2)</td> <td>Fits the page width to the window</td> </tr> <tr> <td>DVZoomFitHeight (3)</td> <td>Fits the page height to the window</td> </tr> <tr> <td>DVZoomFitVisibleWidth (4)</td> <td>Fits the visible content of the page width into the window.</td> </tr> </table>	DVZoomNoVary (0)	A fixed zoom, such as 75%	DVZoomFitPage (1)	Fits the page in the window	DVZoomFitWidth (2)	Fits the page width to the window	DVZoomFitHeight (3)	Fits the page height to the window	DVZoomFitVisibleWidth (4)	Fits the visible content of the page width into the window.
DVZoomNoVary (0)	A fixed zoom, such as 75%										
DVZoomFitPage (1)	Fits the page in the window										
DVZoomFitWidth (2)	Fits the page width to the window										
DVZoomFitHeight (3)	Fits the page height to the window										
DVZoomFitVisibleWidth (4)	Fits the visible content of the page width into the window.										

Method Goto

Syntax:	VARIANT_BOOL Goto(long nPage);
Parameters:	long nPage: Zero based index of the page
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to make a page specified with its index visible.

Method ReadPageDown

Syntax:	VARIANT_BOOL ReadPageDown();
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Scrolls the document down by one screen area.

Method ReadPageUp

Syntax:	VARIANT_BOOL ReadPageUp(long nPage);
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Scrolls the document up by one screen area.

Method ScrollTo

Syntax:	VARIANT_BOOL ScrollTo(short nX, short nY);
Parameters:	short nX, short nY: Specifies the scrolling coordinates within the current page.
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to scroll the current page to the given position. The coordinates specify the left-top corner of the visible area in user space.

Method ZoomTo

Syntax:	VARIANT_BOOL ZoomTo(short nType, short nScale);
Parameters:	short nType: Specifies the Zoom type (see also the method GetZoomType) short nScale: Specifies the scale of zoom as a percentage.
Return value:	The method returns VARIANT_TRUE if the operation succeeded.

Method DevicePointToPage

Syntax:	IDispatch* DevicePointToPage(IDispatch* IPoint);
Parameters:	IDispatch* IPoint: Point to be converted.
Return value:	The method returns the converted values.
Remarks:	Conversion from device space to user space

Method PointToDevice

Syntax:	IDispatch* PointToDevice(IDispatch* IPoint);
Parameters:	IDispatch* IPoint: Point to be converted.
Return value:	The method returns the converted values.
Remarks:	Conversion from user space to device space.

Method GetAperture

Syntax:	IDispatch* GetAperture();
Parameters:	None
Return value:	The method returns the IDispatch interface of a Rect object.
Remarks:	The Rect object specifies the visible area of the page in user space.

iHiliteList

The HiliteList object is designed to specify parts of the text within a PDF document to be selected. The elements of the list may refer to individual characters or words depending on the usage of the object.

Method Add

Syntax:	VARIANT_BOOL Add(short nOffset, short nLength);
Parameters:	short nOffset: Specifies the index of the first object (character or word) to be highlighted. short nLength: Specifies the number of objects to be highlighted.
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	The specified selections refer to characters if the HiliteList object is used by method CreatePageHilite of the DDPPage object. They refer to words in the case of the method CreateWordHilite.

iDDTextSelect

The interface provides some read-only properties for the text selection on the given PDF page.

Method Destroy

Syntax:	VARIANT_BOOL Destroy();
Parameters:	None
Return value:	The method returns VARIANT_TRUE if the operation succeeded.
Remarks:	Use this method to delete the current text selection.

Method GetBoundingRect

Syntax:	IDispatch* GetBoundingRect();
Parameters:	None
Return value:	The method returns a Rect object.
Remarks:	The return value of the method provides the bounding rectangle of the current text selection.

Method GetNumText

Syntax:	long GetNumText();
Parameters:	None
Return value:	The method returns the number of selected text objects.

Method GetPage

Syntax:	long GetPage();
Parameters:	None
Return value:	The method returns the index of the page where the selection is being placed.

Method GetText

Syntax:	BSTR GetText(long nTextIndex);
Parameters:	long nTextIndex: Specifies the index of the selected text.
Return value:	The method returns the selected text.
Remarks:	Use this method to retrieve the text specified with the given index in the highlighted content.

Helper interfaces

The following interfaces are designed for retrieving special properties of different objects.

iRect interface

This interface is designed to get coordinates of a rectangular object. The interface provides four properties for the left, right, top and bottom coordinates. The type of these properties is long. You have full access (read/write) to all four properties. See also [Example 4](#).

ITime interface

This interface defines a Time object having seven properties: year, month, day, hour, minute, second and millisecond. You have full access (read/write) to all four properties.

IPoint interface

This interface defines a point having two properties: the X and Y coordinates. You have full access (read/write) to these properties. This interface is also used for referring to the size of an object. In this case, the property X refers to the width and Y to the height of the object.

ActiveXIEHelper

The ActiveXIEHelper object comprises a set of methods that provide access to PDF browser options. This is a creatable interface, and it facilitates the movement to various pages within a document, and specify various display and print choices.

Method GoBackwardStack

Syntax:	GoBackwardStack();
Parameters:	None
Remarks:	Use this method to check the previous view on the view stack, if a previous view exists. This view can be part of a different document.

Method GoForwardStack

Syntax:	GoForwardStack();
Parameters:	None
Remarks:	Use this method to check the next view on the view stack, if the next view exists. This view can be part of a different document.

Method GotoFirstPage

Syntax:	gotoFirstPage();
Parameters:	None
Remarks:	Use this method to shift to the first page of the document, keeping the present location within the page and the present zoom level.

Method GotoLastPage

Syntax:	gotoLastPage();
Parameters:	None
Remarks:	Use this method to shift to the last page of the document, keeping the existing location within the page and the existing zoom level

Method GotoNextPage

Syntax:	gotoNextPage();
Parameters:	None
Remarks:	Use this method to move to the next page in the document, if the next page exists. Sustains the existing location within the page and the existing zoom level.

Method GotoPreviousPage

Syntax:	gotoPreviousPage();
Parameters:	None
Remarks:	Use this method to move to the previous page in the document, if the previous page exists. Sustains the existing location within the page and the existing zoom level.

Method Print

Syntax:	Print();
Parameters:	None
Remarks:	Use this method to print the document as per the selected option in the user dialog box. Printing options comprise of the embedded printing (that printing within a bounding rectangle on a given page) and interactive printing to a defined printer. The method returns instantly, even if the printing is still in process. Note: If the security settings restrict printing, the document is not printed. In this case the method is ignored.

Method PrintAll

Syntax:	printAll();
Parameters:	None
Remarks:	Use this method to print the complete document without displaying the user dialog box. The present printer, page settings, and job settings are used while printing. The method returns instantly, even if the printing is still in process. Note: If the security settings restrict printing, the document is not printed. In this case the method is ignored.

Method PrintAllFit

Syntax:	printAllFit(VARIANT_BOOL bOn);
Parameters:	bOn: Decides whether to scale the printable area while printing the document. Zero value of the parameter indicates that scaling is not required, and if the parameter has a positive value it indicates that pages are scaled, if required, to fit into the printable area of the page of the printer.
Remarks:	Use this method to print the complete document without displaying the user dialog box, and the pages are scaled, if required, to fit into the printable area of the page of the printer. The present printer, page settings, and job settings are used while printing. The method returns instantly, even if the printing is still in process. Note: If the security settings restrict printing, the document is not printed. In this case the method is ignored.

Method PrintPages

Syntax:	printPages(Long nFrom, Long nTo);
Parameters:	nFrom: Specifies the page number of the first page to be printed. Zero is the first page of the document. nTo: Specifies the page number of the last page to be printed.
Remarks:	Use this method to print the definite pages without displaying the user dialog box. The present printer, page settings, and job settings are used while printing. The method returns instantly, even if the printing is still in process. Note: If the security settings restrict printing, the document is not printed. In this case the method is ignored.

Method PrintPagesFit

Syntax:	printPagesFit(Long nFrom, Long nTo, VARIANT_BOOL bShrinkToFit);
Parameters:	nFrom: Specifies the page number of the first page to be printed. Zero is the first page of the document. nTo: Specifies the page number of the last page to be printed. bShrinkToFit: defines whether the pages will be scaled, if required, to fit into the printable area of a page of the printer.
Remarks:	Use this method to print the required pages without displaying the user dialog box. The present printer, page settings, and job settings are used while printing. A parameter defines whether to scale pages, if required. The method returns instantly, even if the printing is still in process. Note: If the security settings restrict printing, the document is not printed. In this case the method is ignored.

Method PrintWithDialog

Syntax:	printWithDialog();
Parameters:	None
Remarks:	Use this method to print the document as per the selected options in the user dialog box. Printing options comprise of the embedded printing (that printing within a bounding rectangle on a given page) and interactive printing to a defined printer. The method returns instantly, even if the printing is still in process. Note: If the security settings restrict printing, the document is not printed. In this case the method is ignored.

Method SetCurrentPage

Syntax:	setCurrentPage(Long nPage);
Parameters:	nPage: Specifies the page number of the target page. Zero page is the first page of the document.
Remarks:	Use this method to move to the defined page in the document. Keep the existing location within the page and the existing zoom level.

Method SetLayoutMode

Syntax:	setLayoutMode(BSTR szLayoutMode);
Parameters:	szLayoutMode - Possible values: Don't Care: Displays the present user preference Single Page: Displays single page mode OneColumn: Displays one-column continuous mode TwoColumnLeft: Displays the two-column continuous mode with the first page on the left. TwoColumnRight: Displays the two-column mode with the first page on the right.
Remarks:	Use this method to display the layout mode for the page view as per the string defined.

Method SetNamedDest

Syntax:	setNamedDest(BSTR szNamedDest);
Parameters:	szNamedDest: The defined destination at which the user will go.
Remarks:	Use this method to modify the page view to the defined destination in the specified string.

Method SetPageMode

Syntax:	setPageMode(BSTR szPageMode);
Parameters:	szPageMode - Possible values: None: Shows the document, but by default, the bookmarks and the thumbnails are not displayed. Bookmarks: Shows the documents along with the bookmarks. Thumbs: Shows the document along with the thumbnails.
Remarks:	Use this method to define the page mode as per the specified string.

Method setShowToolbar

Syntax:	setShowToolbar(VARIANT_BOOL bOn);
Parameters:	bOn: The positive value of the parameter signifies that the toolbar will be displayed, and zero value indicates that it will not be displayed.
Remarks:	Use this method to define whether the toolbar will be displayed in the viewer.

Method SetView

Syntax:	setView(BSTR szViewMode);
Parameters:	szViewMode - Possible values: Fit: Fits the complete page within the frame both vertically and horizontally. FitH: Fits the complete width of the page within the frame. FitV: Fits the complete height of the page within the frame. FitB: Fits the bounding box within the frame both vertically and horizontally. FitBH: Fits the complete width of the bounding box within the frame. FitB: Fits the complete height of the bounding box within the frame.
Return value:	None
Remarks:	Use this method to define view of the page as per the specified string.

Method SetViewRect

Syntax:	setViewRect(FLOAT left, FLOAT top, FLOAT width, FLOAT height);
Parameters:	left: The horizontal coordinate in the upper left. Top: The vertical coordinate in the upper left corner. Width: The horizontal width of the rectangle. Height: The vertical height of the rectangle.
Remarks:	Use this method to specify the rectangle view as per the defined coordinates.

Method SetViewScroll

Syntax:	setViewRect(BSTR szViewMode, FLOAT offset);
Parameters:	szViewMode – Possible values: Fit: Fits the complete page within the frame both vertically and horizontally. FitH: Fits the complete width of the page within the frame FitV: Fits the complete height of the page within the frame. FitB: Fits the bounding box within the frame both vertically and horizontally. FitBH: Fits the complete width of the bounding box within the frame. FitBV: Fits the complete height of the bounding box within the frame.

	Offset: The vertical or the horizontal coordinate placed either at the left or the top edge.
Remarks:	Use this method to define view of the page as per the defined string. Depending on the view of the page, the page is scrolled to the right or down as per the value specified for offset.

Method SetZoom

Syntax:	setZoom(FLOAT percent);
Parameters:	percent: The required zoom factor, defined in percentage. For example, 0.7 represents a magnification of 70%.
Remarks:	Use this method to define the magnification as per the specified value.

Method SetZoomScroll

Syntax:	setZoomScroll(FLOAT percent, FLOAT left, FLOAT top);
Parameters:	percent: The required zoom factor, defined in percentage. For example, 0.7 represents a magnification of 70%. left: the horizontal coordinate placed at the left edge. Top: the vertical coordinate placed at the top edge.
Remarks:	Use this method to define the magnification as per the specified value, and to scroll the page view both vertically and horizontally as per the defined values.

Property Src

Syntax:	[get/set] src
Return value:	The property returns the URL of the document formatted as a string.
Remarks:	Use this property to receive or set the URL for the document

Examples

These examples are based on Visual C++ and Visual Basic code. The examples are easily applicable to other programming languages supporting OLE automation.

Example 1 – Inserting pages into a document

The following example demonstrates how pages can be inserted from one PDF document into another. The sample can also be applied to the methods `ReplacePages` and `MovePages` of the `IDDDoc` interface

Referenced methods

Creating Application interface

Creating `DDDoc` interface

[IDDDoc::Open](#)

[IDDDoc::InsertPages](#)

[IDDDoc::Save](#)

[IDDDoc::Close](#)

[IApp::Exit](#)

C++

`HRESULT` Example1(`LPWSTR` sourceFile, `LPWSTR` targetFile, `LPWSTR` resultFile)

```
{
    PowerPDF::IDDDocPtr ddDocTarget;
    ddDocTarget.CreateInstance(__uuidof(PowerPDF::DDDoc));

    if (ddDocTarget->Open(targetFile) != VARIANT_TRUE)
    {
        pApp->Exit();
        return E_FAIL;
    }

    /*-----
    Other file types e.g. Office formats can be opened as PDF
    if ( 0 == ddDocTarget->Open(L"myworddoc.docx") )
    {
```

```

pApp->Exit();
return E_FAIL;
}
-----*/

PowerPDF::IDDDocPtr ddDocSource;
ddDocSource.CreateInstance(__uuidof(PowerPDF::DDDoc));

if (ddDocSource->Open(sourceFile) != VARIANT_TRUE)
{
    ddDocTarget->Close();
    pApp->Exit();
    return E_FAIL;
}

// Insert the first two pages of the source document into the 3rd position
// of the target document
if (ddDocTarget->InsertPages(1, ddDocSource, 0, 2, FALSE) != VARIANT_TRUE)
{
    ddDocTarget->Close();
    ddDocSource->Close();
    pApp->Exit();
    return E_FAIL;
}

// Save the modifications using DDDoc object
if (ddDocTarget->Save(PowerPDF::DDSaveFull, resultFile) != VARIANT_TRUE)
{
    //Saving the file failed
    return ERROR_SAVE;
}

ddDocTarget->Close();
ddDocSource->Close();
pApp->Exit();
return S_OK;

```

```
}

```

VB

```
Sub Example1(inFile, outFile, resFile)

```

```
Set PDFApp = CreateObject("PowerPDF.App")

```

```
Set ddDocTarget = CreateObject("PowerPDF.DDDoc")

```

```
If ddDocTarget.Open(outFile) = False Then

```

```
    PDFApp.Exit

```

```
    Exit Sub

```

```
End If

```

```
Set ddDocSource = CreateObject("PowerPDF.DDDoc")

```

```
If ddDocSource.Open(inFile) = False Then

```

```
    ddDocTarget.Close

```

```
    PDFApp.Exit

```

```
    Exit Sub

```

```
End If

```

```
If ddDocTarget.InsertPages(1, ddDocSource, 0, 2, False) = False Then

```

```
    ddDocSource.Close

```

```
    ddDocTarget.Close

```

```
    PDFApp.Exit

```

```
    Exit Sub

```

```
End If

```

```
If ddDocTarget.Save(1, resFile) = False Then '1 = DDSaveFull

```

```
    'Saving the file failed

```

```
    InputBox("Saving the file failed")

```

```
End If

```

```
ddDocSource.Close

```

```
ddDocTarget.Close

```

```
PDFApp.Exit

```

```
End Sub

```

Example 2 – Highlighting words in a PDF document

This sample demonstrates how words can be selected within a page of a PDF document.

Referenced methods

Creating Application interface

Creating DVDoc interface

Creating HiliteList interface

[IDVDoc::Open](#)

[IDDDoc::GetDDDoc](#)

[DDDoc::AcquirePage](#)

[iHiliteList::Add](#)

[DDPage::CreateWordHilite](#)

[DVDoc::SetTextSelection](#)

[DVDoc::ShowTextSelection](#)

C++

HRESULT Example2(LPWSTR file)

```
{
    //Open the PDF document
    PowerPDF::IDVDocPtr dvOpenDoc;
    dvOpenDoc.CreateInstance(__uuidof(PowerPDF::DVDoc));
    if (dvOpenDoc->Open(file) != VARIANT_TRUE)
    {
        // "ERROR: can't open test file\n"
        pApp->Exit();
        return E_FAIL;
    }

    //Get the associated DDDoc object
    PowerPDF::IDDDocPtr ddDoc = dvOpenDoc->GetDDDoc();

    //Acquire the page to be highlighted
    PowerPDF::IDDPPagePtr ddPage = ddDoc->AcquirePage(0);
```

```

//Create the list of highlights
PowerPDF::iHiliteListPtr hl;
hl.CreateInstance(__uuidof(PowerPDF::HiliteList));
hl->Add(0, 1);    //    1st word should be highlighted
hl->Add(2, 2);    //    and 2 additional words from the 3rd position
hl->Add(5, 3);    //    and 3 additional words from the 6th position
hl->Add(9, 4);    //    and 4 additional words from the 10th position

//Create the word highlights and display them
PowerPDF::iDDTextSelectPtr ts = ddPage->CreateWordHilite(hl);
dvOpenDoc->SetTextSelection(ts);
dvOpenDoc->ShowTextSelect();

//    The highlight list may refer to series of characters as well.
//    Use method ddPage->CreatePageHilite to select series of
//    characters
return S_OK;
}

```

VB

```

dim Offset
dim Length
Offset = array(0,2,5,9)
Length = array(1,2,3,4)
hNum = 4

.....

Call Example2("C:\Test\MyDoc.pdf", 0, Offset, Length, hNum)
.....

Sub Example2(file, pg, offs, len, num)

Set PDFApp = CreateObject("PowerPDF.App")
Set dvOpenDoc = CreateObject("PowerPDF.DVDoc")

If dvOpenDoc.Open(file) = False Then

```

```
PDFApp.Exit
Exit Sub
End If

Set ddDoc = dvOpenDoc.GetDDDoc()
Set ddPage = ddDoc.AcquirePage(pg)
Set hl = CreateObject("PowerPDF.HiliteList")

for i = 0 to num -1
    hr = hl.Add(off(i), len(i))
next

Set ts = ddPage.CreateWordHilite(hl)
hr = dvOpenDoc.SetTextSelection(ts)
dvOpenDoc.ShowTextSelect
End Sub
```

Example 3 – Adding annotations

This sample provides a code for adding a new annotation to a given page of the document and setting its properties.

Referenced methods

Creating Application interface

Creating DVDoc interface

[DDPage::AcquirePage](#)

[Rect properties](#)

[DDPage::GetNumAnnots](#)

[DDPage::AddNewAnnot](#)

[DDAnnot::SetContents](#)

[DDAnnot::SetColor](#)

C++

HRESULT AppendTextAnnotation(PowerPDF::IDDDocPtr ddDocOpen, **long** pageIndex, **RECT** rc, **LPCTSTR** strComment)

```
{
    // Acquiring the page of the document
    PowerPDF::IDDPPagePtr ddPage = ddDocOpen->AcquirePage(pageIndex);
    if (NULL == ddPage)
    {
        return ERROR_INVALID_PAGEINDEX;
    }

    PowerPDF::iRectPtr rcAnnot;
    if (S_OK != rcAnnot.CreateInstance(__uuidof(PowerPDF::Rect)))
    {
        ddPage.Release();
        return ERROR_INTERNAL;
    }

    rcAnnot->PutLeft(rc.left);
    rcAnnot->PutTop(rc.top);
    rcAnnot->PutRight(rc.right);
}
```

```

rcAnnot->PutBottom(rc.bottom);
long index = ddPage->GetNumAnnots() - 1;

PowerPDF::iDDAnnotPtr ddAnnot = ddPage->AddNewAnnot(index, _T("Text"), rcAnnot);
if (NULL == ddAnnot)
{
    ddPage.Release();
    return ERROR_ADD_ANNOT_FAILED;
}

if (ddAnnot->SetContents(strComment) != VARIANT_TRUE)
{
    ddPage.Release();
    ddAnnot.Release();
    return ERROR_SETCONTENT;
}

ddAnnot->SetColor(128);
return S_OK;
}

```

VB

```

dim rect
' (Left,Top,Right,Bottom)
rect=array(176,0,418,550)

.....

Call AppendTextAnnotation("C:\Test\MyDoc.pdf",0,rect,"This is an annotation")
.....

Sub AppendTextAnnotation(file,pg,rc,str)

Set PDFApp = CreateObject("PowerPDF.App")
Set dvOpenDoc = CreateObject("PowerPDF.DVDoc")

If dvOpenDoc.Open(file) = False Then

```

PDFApp.Exit

Exit Sub

End If

Set ddDoc = dvOpenDoc.GetDDDoc()

Set ddPage = ddDoc.AcquirePage(pg)

Set rcAnnot = CreateObject("PowerPDF.Rect")

rcAnnot.Bottom = rc(3)

rcAnnot.Left = rc(0)

rcAnnot.Right = rc(2)

rcAnnot.Top = rc(1)

index = ddPage.GetNumAnnots - 1

Set ddAnnot = ddPage.AddNewAnnot(index, "Text", rcAnnot)

ddAnnot.SetContents (str)

ddAnnot.SetColor (128)

End Sub

Example 4 – Opening PDF in browser with OLE automation

This example contains both the style (CSS) and JavaScript blocks to define a PDFObject container and embed the content of a sample document.

Prerequisites

- Internet Explorer 11

C++

```
HRESULT Example4(LPWSTR htmlFile)
{
    // Open the PDF document
    PowerPDF::IDVDocPtr dvOpenDoc;
    dvOpenDoc.CreateInstance(__uuidof(PowerPDF::DVDoc));
    if (dvOpenDoc->Open(htmlFile) != VARIANT_TRUE)
    {
        pApp->Exit();
        return E_FAIL;
    }
    return(S_OK);
}
```

VB

```
Sub Example4(htmlFile)

Set PDFApp = CreateObject("PowerPDF.App")
Set dvOpenDoc = CreateObject("PowerPDF.DVDoc")
If dvOpenDoc.Open(htmlFile) = False Then
    PDFApp.Exit
End If
End Sub
```

Example 5 – Form field access via JavaScript object

This sample shows how to get access to the JavaScript object to run JavaScript code.

It opens two documents and shows how to access the opened documents and how to get/set form field values in the documents.

VB

```

Set PDFApp = CreateObject("PowerPDF.App")
Set dvOpenDoc = CreateObject("PowerPDF.DVDoc")
dvOpenDoc.Open("C:\Test\Empty.pdf")
If dvOpenDoc.Open("C:\Test\Form_sample_with_Text1_textfield.pdf") = False Then
    PDFApp.exit()
End If
Set ddDoc = dvOpenDoc.GetDDDoc()
Set jso = ddDoc.GetJSObject
docs = jso.app.activeDocs

jso.app.alert ("First opened document: " & docs(0).title & ", Last opened document: " & docs(1).title & "")

sField = docs(0).getField("Text1")
If Not IsNull(sField) Then
    jso.app.alert ("Found 'Text1' field in " & docs(0).title & " document")
Else
    jso.app.alert ("There is no 'Text1' field in " & docs(0).title & " document")
End If

sField = docs(1).getField("Text1")
If Not IsNull(sField) Then
    jso.app.alert ("The old value for 'Text1' field in " & docs(1).title & " is: " &
docs(1).getField("Text1").value)
    docs(1).getField("Text1").value = "New Value for 'Text1' form field"
    jso.app.alert ("The new value for 'Text1' field in " & docs(1).title & " is: " &
docs(1).getField("Text1").value)
Else
    jso.app.alert ("There is no 'Text1' field in " & docs(1).title & " document")
End If

```

```
sField = docs(1).getField("Updated")
```

```
If Not IsNull(sField) Then
```

```
docs(1).getField("Updated").value = "yes"
```

```
Else
```

```
jsa.app.alert ("There is no 'Updated' field in "& docs(1).title & " document")
```

```
End If
```

```
ddDoc.Save 1, "C:\Test\Form_sample_with_Text1_textfield_newValue.pdf" '1 = DDSaveFull
```

```
dvOpenDoc.Close (1)
```

```
PDFApp.exit()
```

Appendix

Names of actions/menus

These names can be used as input parameter for the method *MenuItemExecute* and *MenuItemIsEnabled* of the IApp interface.

Action	Menu name
File menu	
Info / Description / Properties	DocumentProperties
Open / Browse	Open
New / Blank PDF	CreateDocumentFromBlankPage
New / Form file / Create a PDF from a single file	CreateFromFile
New / Form file / Create PDFs from multiple files	CreateMultipleFiles
New / Form file / Combine multiple files into a single PDF	CombineMultipleFiles
New / Form file / Overlay multiple files into a single PDF	OverlayMultipleFiles
New / From clipboard	CreateDocumentFromClipboard
New / Create PDF Portfolio	CreatePortfolio
New / From Scanner / Create new PDF from scanner	ScanNew
New / From Scanner / Append new scan to current file	ScanExist
New / From Scanner / Scanner Setup	ScanSetting
New / From Web Page	NewFromWeb
Close	Close
Save	Save
Save As	SaveAs
Share / E-mail	Email
Share / Fax via e-mail	FaxViaEmail
Print	Print

Action	Menu name
Options	Preferences
Exit	Exit
Home ribbon	
Pages / Insert	InsertPage
Pages / Extract	ExtractPage
Pages / Delete	DeletePage
*there is no button	ReplacePage
*there is no button	AddPage
Pages / Document Assembly	DocumentAssembly
Create / From File	CreateFromFile
Create / Combine Files	CombineMultipleFiles
Create / Combine All	CombinAllOpenFile
Create / From Scanner / Scan New	ScanNew
Create / From Scanner / Scan to Existing	ScanExist
Create / From Scanner / Scan and markup	ScanMarkup
Create / From Scanner / Scan Settings	ScanSetting
Page Rotate / Right	RotatePageRight
Page Rotate / Left	RotatePageLeft
Page Rotate / Advanced	RotatePage
Convert / MS Word	SaveAsWord
Convert / Excel	SaveAsExcel
Convert / PowerPoint	SaveAsPPT
Convert / Other / XPS Document	SaveAsXPS
Convert / Other / Word Form	SaveAsForm
Convert / Other / WordPerfect Document	SaveAsWPD

Action	Menu name
Convert / Other / MRC PDF	SaveAsMRC
Convert / Other / Searchable PDF	SaveAsSearchable
Convert / Make PDF Searchable / Make PDF Searchable	MakeSearchable
Convert / Make PDF Searchable / Proofreader	ProofReader
Tools / Edit Text	EditText
Tools / Typewriter	Typewriter
Tools / Reduce / Optimize	Optimize
Tools / Reduce / Reduce Current File	ReduceCurrentFile
Tools / Reduce / Reduce Multiple Files	ReduceMultipleFiles
Tools / Split	Split
Search / Search / Search Current	Find
Search / Search / Search Multiple	Search
Edit ribbon	
Convert / Convert to editable	ConvertToEditable
Basic / Undo	Undo
Basic / Redo	Redo
Basic / Delete	Delete
Basic / Select Area	SelectArea
Basic / Select All	SelectAll
Basic / Deselect All	DeselectAll
Clipboard / Cut	Cut
Clipboard / Copy	Copy
Clipboard / Paste	Paste
Modify / Crop	Crop
Modify / Edit Text	EditText

Action	Menu name
Modify / Edit Object	EditObject
Modify / Typewriter	Typewriter
Insert / Headers and Footers / Add...	AddHeadersAndFooters
Insert / Headers and Footers / Update...	UpdateHeadersAndFooters
Insert / Headers and Footers / Remove...	RemoveHeadersAndFooters
Insert / Bates Numbering / Add...	AddBatesNumbers
Insert / Bates Numbering / Remove...	RemoveBatesNumbers
Insert / Link	Link
Insert / Movie	Movie
Insert / Sound	Sound
Insert / 3D	3D
Tools / Alignment / View Grid	ViewGrid
Tools / Alignment / Snap to Grid	SnapToGrid
Tools / Alignment / View Rulers	ViewRulers
Tools / Alignment / View Guides	ViewGuides
Tools / Measure / Distance Tool	MeasureDistance
Tools / Measure / Perimeter Tool	MeasurePerimeter
Tools / Measure / Area Tool	MeasureArea
Tools / JavaScript / JavaScript Console	JavaScriptConsole
Tools / JavaScript / Set Document Actions	SetDocumentActions
Tools / JavaScript / Document JavaScript	DocumentJavaScript
View ribbon	
Zoom / Zoom In	ZoomIn
Zoom / Zoom Out	ZoomOut
Zoom / Loupe View	LoupeView

Action	Menu name
Zoom / Dynamic Zoom	DynamicZoom
*Zoom / Zoom To	ZoomTo
Page View / Scroll Options / Single Page	SinglePage
Page View / Scroll Options / Continuous	Continuous
Page View / Scroll Options / Facing	Facing
Page View / Scroll Options / Continuous Facing	ContinuousFacing
Page View / Page Fit Options / Actual Size	ActualSize
Page View / Page Fit Options / Fit Page	FitPage
Page View / Page Fit Options / Fit Width	FitWidth
Page View / Page Fit Options / Fit Visible	FitVisible
Page View / Page Fit Options / Fit Height	FitHeight
Page View / Full Screen	FullScreen
Page View / Rotate View / Clockwise	ClockwiseRotateView
Page View / Rotate View / Counterclockwise	CounterclockwiseRotateView
Page View / Previous View	PreviousView
Page View / Next View	NextView
New / New Window	NewWindow
Display Theme / Change Skin / Purple	ChangeSkinPurple
Display Theme / Change Skin / Dark Gray	ChangeSkinGrayDark
Display Theme / Change Skin / Light Gray	ChangeSkinGrayLight
Display Theme / Change Skin / Blue	ChangeSkinBlue
Current Window / Horizontal Split	HorizontalSplit
Current Window / Vertical Split	VerticalSplit
Current Window / Quad Split	QuadSplit
All Windows / Cascade	Cascade

Action	Menu name
All Windows / Tile / Horizontally	TileHorizontally
All Windows / Tile / Vertically	TileVertically
All Windows / Close All	CloseAll
Comments ribbon	
Annotate / Note	Note
Annotate / Text Box	TextBox
Annotate / Callout	CallOut
Annotate / Dragon Notes	DragonNotes
Annotate / Check Spelling / Check Spelling	CheckSpelling
Annotate / Check Spelling / Edit Dictionary	EditDictionary
Markup / Highlight / Highlight	Highlight
Markup / Highlight / Highlight Area	HighlightArea
Markup / Cross-out	Crossout
Markup / Underline	Underline
Markup / Draw Tools / Line	Line
Markup / Draw Tools / Arrow	Arrow
Markup / Draw Tools / Rectangle	Rectangle
Markup / Draw Tools / Pencil	Pencil
Markup / Draw Tools / Oval	Oval
Markup / Draw Tools / Polygon	Polygon
Markup / Draw Tools / Polygon Line	PolygonLine
Markup / Draw Tools / Cloud	Cloud
Markup / Draw Tools / Eraser	Eraser
Markup / Draw Tools / Hammer	Hammer
Markup / Search and Markup	SearchAndMarkup

Action	Menu name
Comment Processing / Import Comments	ImportComments
Comment Processing / Export Comments	ExportComments
Comment Processing / Migrate Comments	MigrateComments
Comment Processing / Create Comment Summary	CommentSummary
Comment Processing / Search Comments	SearchComments
Attachments / File	AttachFile
Attachments / Audio	AttachSound
Advanced Processing ribbon	
Process / Flatten File	Flatten
Process / Index / Create Full Text Indexes	CreateFullTextIndexes
Process / Index / Embedded Index	EmbeddedIndex
Process / Reduce / Optimize	Optimize
Process / Reduce / Reduce Current File	ReduceCurrentFile
Process / Reduce / Reduce Multiple Files	ReduceMultipleFiles
Tools / Split	Split
Process / Compare	Compare
File / Previous	PreviousFile
File / Next	NextFile
File / Scan Inbox	ScanInbox
Batch / Convert Assistant	Converter
Batch / Sequencer	Workflow
Batch / Batch Converter	BatchConvert
Batch / Watched Folder	WatchedFolder
Read Aloud / Current Page	ReadPage
Read Aloud / To End	ReadDoc

Action	Menu name
Read Aloud / To File	ReadToFile
Export / Export Area	ExportArea
Security ribbon	
Redaction / Mark Redaction	MarkRedaction
Redaction / Apply Redaction	ApplyReadaction
Redaction / Search and Redact	SearchAndRedact
Redaction / Redaction Properties	RedactionToolProperties
Sign and Certify / Handwritten Signature / Place	PlaceHandwrittenSignature
Sign and Certify / Handwritten Signature / Manage	ManageHandwrittenSignature
Sign and Certify / Sign / Sign Document	SignDocument
Sign and Certify / Time Stamp	TimeStamp
Sign and Certify / Certify / Certify Document	CertifyDocument
Sign and Certify / Certify / Certify Document Invisibly	CertifyDocumentInvisibly
Sign and Certify / Document Signatures / Verify All Signatures	VerifyAllSignatures
Sign and Certify / Document Signatures / Clear All Signature Fields	ClearAllSignatureFields
Sign and Certify / Document Signatures / View Signed Version	ViewSignedVersion
Sign and Certify / Document Signatures / Compare Signed Version to Current Version	CompareSignedVersion
Sign and Certify / DocuSign / Send via DocuSign	DocuSignSend
Sign and Certify / DocuSign / Sign with DocuSign	DocuSignSign
Sign and Certify / DocuSign / Forget User	DocuSignForgetUser
Sign and Certify / SignDoc / Send via Kofax SignDoc	SignDocSend
Sign and Certify / SignDoc / Sign with Kofax SignDoc - Signature	SignDocSign
Sign and Certify / SignDoc / Sign with Kofax SignDoc - Image	SignDocImage

Action	Menu name
Security / Clean Document	CleanDocument
Security / Remove Elements	RemoveElements
Security / Secure Delivery	SecureDelivery
Security / Manage Security / Modify	ModifySettings
Security / Manage Security / Remove	RemoveSettings
IDs and Certificates / Manage Digital Identities	ManageDigitalIDs
IDs and Certificates / Trusted Identities	TrustedIDs
DRM / RMS Security	RMSecurity
Forms ribbon	
Fillable Form / FormTyper	FormTyper
Form Elements / Button	Button
Form Elements / Radio Button	RadioButton
Form Elements / Check Box	CheckBox
Form Elements / Text Field	TextField
Form Elements / List Box	ListBox
Form Elements / Combo Box	ComboBox
Form Elements / Signature Field	DigitalSignature
Fields / Set Field Calculation Order	SetFieldCalculationOrder
Fields / Highlight Form Fields	HighlightFormFields
Fields / Reset Form Fields	ResetFormFields
Fields / Set Tab Order	SetTabOrder
Data / Import Form Data	ImportFormData
Data / Export Form Data	ExportFormData
Data / Export Data From Multiple Forms	ExportDataFromMultipleForms
Help ribbon	

Action	Menu name
Help / Power PDF Help / Help Online	Help
Help / Power PDF Help / Help Offline	HelpOffline
Help / Kofax On the Web / Product Information	ProductInfo
Help / Kofax On the Web / Kofax Online Store	OnlineStore
Help / Kofax On the Web / Product Support	ProductSupport
Help / Product Update	ProductUpdate
Help / Automatic Updates	AutomaticUpdates
Help / About	About
Panels	
Pages	PageThumbnails
Bookmarks	Bookmarks
Destinations	Destinations
Watermarks	Watermarks
Comments	Comment
Stamps	Stamps
Compliance	Compliance
Attachments	Attachments
Layers	Layers
Tag	Tag
Model Tree	ModelTree
Clip Art	ClipArt
Auto Recovery	AutoRecovery
Security	Security
Sign / Certify	SignAndCertify
Signatures	Signatures

Action	Menu name
SignDoc	SignDocSend
Form Controls	FormControls
Collaboration	Collaboration
Autostore	AutoStore