

# PDF CMD SDK

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ZEON Corporation  
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[www.gaaiho.com](http://www.gaaiho.com)

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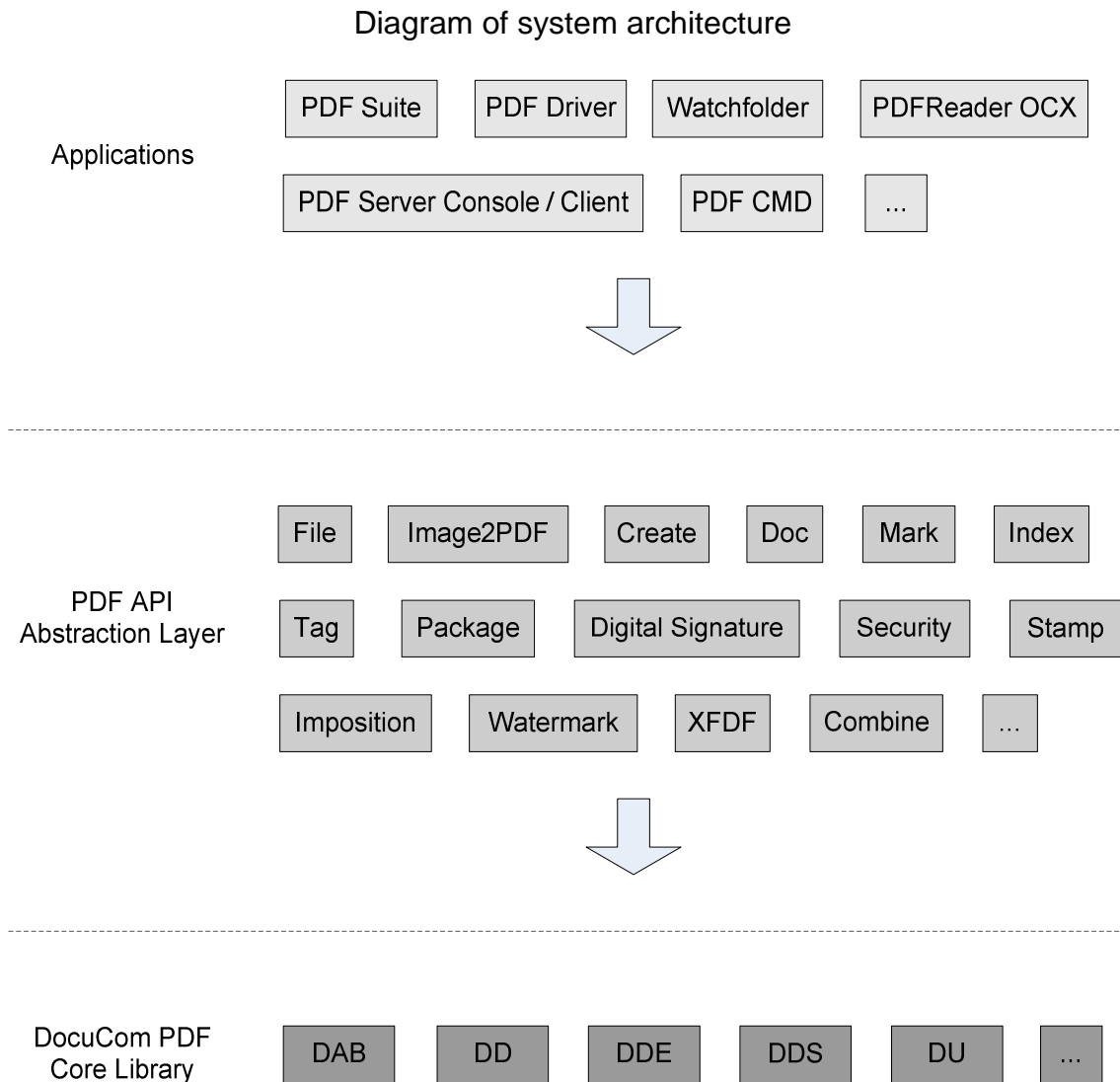
## • Overview

PDF CMD is a set of component objects providing COM interfaces to

- convert — from other document formats to PDF;
- modify — edit document properties, manipulate pages;
- secure — set security option;
- combine — concatenate or overlay;
- annotate — add watermark;
- search — index and search PDF documents.

All Gaiho PDF products including Gaiho Doc, Watch Folder and PDF Server Console/Client are based on the same underlayer application programming interfaces of PDF CMD. See system architecture for detail.

# I. System Architecture

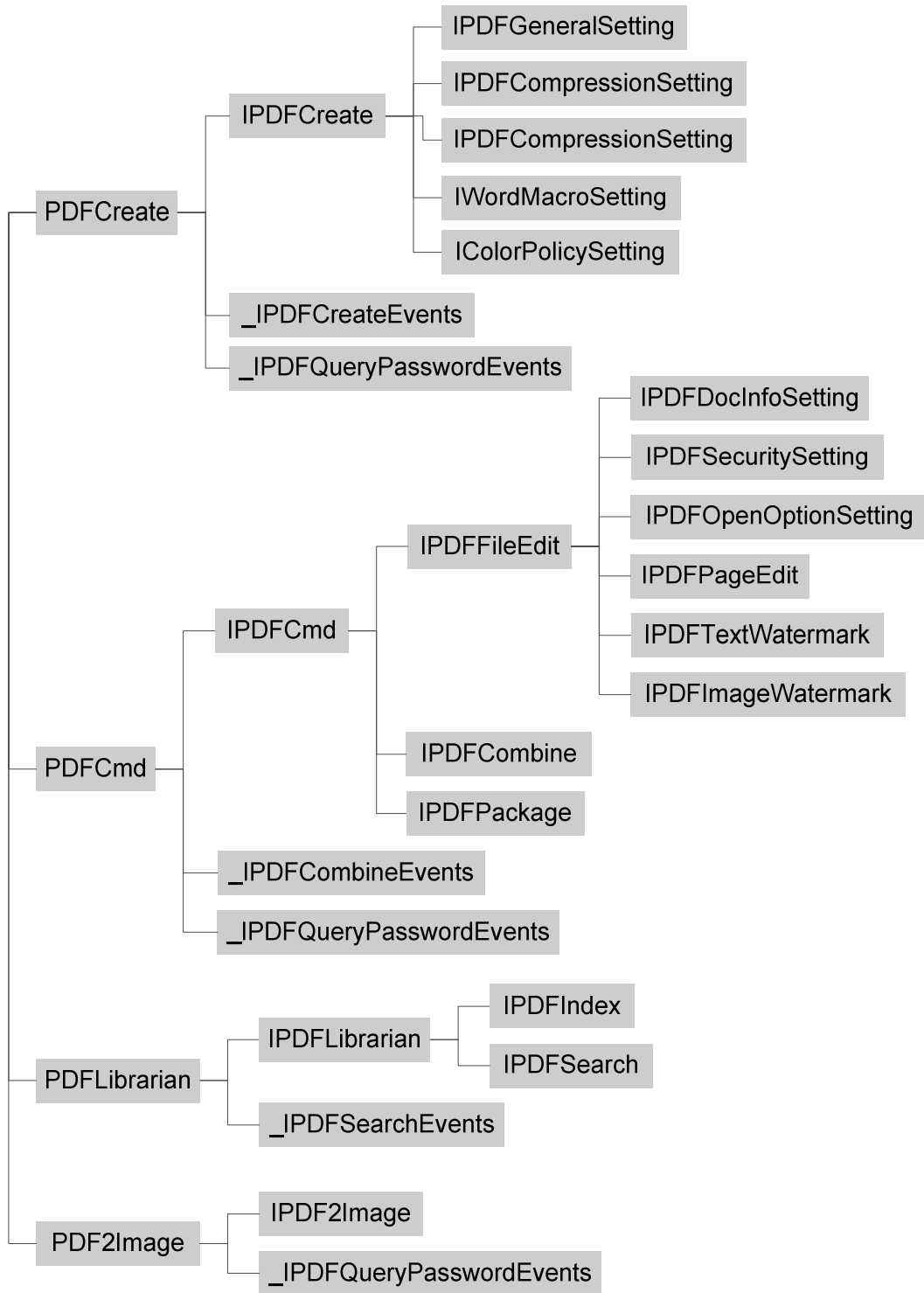


ZEON's PDF Core Library occupies the bottom layer, supporting full PDF specifications via industry standard interface and syntax.

PDF API abstraction belongs to the middle layer. By providing application-friendly format APIs, it considerably simplifies PDF document processing.

And finally there is the application layer, which includes PDF CMD. Essentially, PDF CMD is the COM interface wrapper of the underlying PDF API.

## II. Interface Hierarchy



## • **Programming Guide**

Since PDF CMD provides standard COM interfaces, it should be compatible to any programming languages that support COM, including scripting languages.

Though COM is language independent, we use C++ syntax for instructions and descriptions in this document.

A typical usage of PDF CMD includes following procedure:

1. Initialize COM;
2. Create instances of COM classes and initialize;
3. Retrieve interfaces and do the work;
4. Uninitialize and clean up.

## I. Convert other document formats to PDF

The most common usage of PDF CMD is to create PDF from other document formats.

Basically, it is done by utilizing [Convert](#) method of [IPDFCreate](#) interface.

1. Create [IPDFCreate](#) interface, which is the default sink interface of [PDFCreate](#) component object;
2. Call [Initialize](#) method to initialize PDFCreate component object;
3. Use [Convert](#) method to create PDF from source file;
4. Call [Uninitialize](#) method and release the IPDFCreate interface.

## II. Control conversion settings

Various settings during conversion can be configured through [IPDFGeneralSetting](#), [IPDFCompressionSetting](#), and [IPDFFontEmbedSetting](#).

To modify conversion settings:

1. Create [IPDFCreate](#) interface, which is the default sink interface of [PDFCreate](#) component object;
2. Call [Initialize](#) method to initialize PDFCreate component object;
3. Use [GetGeneralSettingInterface](#), [GetCompressionSettingInterface](#), or [GetFontEmbedSettingInterface](#) to retrieve corresponding interfaces;
4. Modify conversion settings using the returned interfaces;
5. Do conversion jobs;
6. Call [Uninitialize](#) method and release the IPDFCreate interface.

### III. Combine multiple PDF documents into one PDF file

[IPDFCombine](#) interface is used to concatenate or overlay multiple PDF documents into one PDF file.

1. Create [IPDFCmd](#) interface, which is the default sink interface of [PDFCmd](#) component object;
2. Call [Initialize](#) method to initialize [PDFCmd](#) component object;
3. Use [CreateCombineInterface](#) method to create [IPDFCombine](#) interface;
4. Include files you want to combine through [AddFile](#) method;
5. Call [Concat](#) or [Overlay](#) to do the job;
6. Release the created [IPDFCombine](#) interface;
7. [Uninitialize](#) and release the [IPDFCmd](#) interface.

## IV. Set security option

Security options are controlled through [IPDFSecuritySetting](#) interface. Basic procedure includes creating [IPDFEditEdit](#) interface, opening target PDF file, and retrieving [IPDFSecuritySetting](#) interface.

1. Create [IPDFCmd](#) interface, which is the default sink interface of [PDFCmd](#) component object;
2. Call [Initialize](#) method to initialize [PDFCmd](#) component object;
3. Use [CreateFileEditInterface](#) method to create [IPDFFileEdit](#) interface;
4. Use [Open](#) method to open the target PDF file;
5. Retrieve [IPDFSecuritySetting](#) interface through [GetSecurityInterface](#) method.
6. Utilize methods of [IPDFSecuritySetting](#) interface to set passwords and various permissions;
7. Call [SetSecurity](#) method to apply the previous configurations;
8. Release the created [IPDFFileEdit](#) interface;
9. [Uninitialize](#) and release the [IPDFCmd](#) interface.



## V. Error handling

Error information in PDF CMD is maintained through standard component automation error handling ways—`IErrorInfo`.

Once an error occurred, application could use `GetErrorInfo` API to retrieve the associated `IErrorInfo` object which contains detailed information of the error including error code and description. For a list of returned error codes please refer to [Error Code](#).

Most development environments have their own unique error handling mechanism. For example, while C/C++ could use return value of the procedure to obtain the error code, Microsoft Visual C++ more specifically provides try-catch exception for easy accessing `IErrorInfo`; Microsoft Visual Basic has the `Err` global object containing the error code (`Err.Number`) and Description (`Err.Description`). For error handling under other development environments, please consult the manual of their programming language.

## • Reference

PDF CMD includes following component objects:

[PDFCreate](#)

[PDFCmd](#)

[PDFLibrarian](#)

[PDF2Image](#)

## I. PDFCreate

PDFCreate, the most important and complex component object in PDF CMD, can convert any printable document format to PDF by “PRINTING” to the virtual printer “Gaiho PDF Driver”.

Various conversion settings are presented including: page setup, image compression, font embedding, etc.

An event handler interface [\\_IPDFCreateEvents](#) is defined for applications to receive events during conversion.

An additional interface [IWordMacroSetting](#) controls further conversion options for Microsoft Office Word.

Though multi-thread support is build into PDFCreate for converting multiple documents at the same time, multi-threaded printing compatible applications are a must in order to succeed in such cases. Some common applications are known to have issues during multi-threaded printing, such as Microsoft Word, Microsoft Excel and Microsoft PowerPoint. Single-thread restriction is applied for those application in PDFCreate.

Note that since the conversion is actually a printing process, the application natively supporting the original document format has to be installed on the host operating system. Ex. to convert “.doc” files, Microsoft Office Word or any other applications that support printing of “.doc” file must exist.

## **i. IPDFCreate**

IPDFCreate is the default sink interface of PDFCreat component object, and provides methods for initializing of PDFCreate component object and file conversion. Conversion setting interfaces, including [IPDFGeneralSetting](#), [IPDFComressionSetting](#), [IPDFFontEmbedSetting](#) and [IWordMacroSetting](#), can also be retrieved from this interface.

# IPDFCreate Interface

## 1. Initialize

### Description

Initialize the PDFCreate component object.

### Syntax

```
HRESULT Initialize ( BSTR sn, long reserved );
```

### Parameters

*sn*

[in] Serial number.

*reserved*

[in] Reserved for ZEON Corporation. Must be set to 0.

### Return Values

S\_OK

The method succeeded.

Others

Fail to initialize. Return error information through IErrorInfo Interface.

### Remarks

PDFCreate must be initialized before invoking its method.

# IPDFCreate Interface

## 2. Uninitialize

### Description

Close the PDFCreate component.

### Syntax

```
HRESULT Uninitialize ( );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

This method must be called before terminating the application.

## IPDFCreate Interface

### 3. IsFileTypeSupported

#### Description

Whether specific file type is supported.

#### Syntax

```
HRESULT IsFileTypeSupported ( BSTR sfileext, VARIANT_BOOL  
*pbIsFileTypeSupported );
```

#### Parameters

*sfileext*

[in] File extension, such as “.doc”. “.” is a must.

*pbIsFileTypeSupported*

[out, retval] Whether the specific file type is supported.

TRUE = Supported.

FALSE = Unsupported.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

Caution: “.pdf” file is not supported.

# IPDFCreate Interface

## 4. Convert

### Description

Convert other format files to PDF

### Syntax

```
HRESULT Convert ( BSTR sSourceFile, BSTR sDestFile );
```

### Parameters

*sSourceFile*

[in] Full path of the source file you want to convert to PDF.

*sDestFile*

[in] Destination path to save the resulting PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Four events are fired during converting: [StartDoc](#), [StartPage](#), [EndPage](#), and [EndDoc](#).



# IPDFCreate Interface

## 5. StopCreating

### Description

Used to stop conversion in process.

### Syntax

```
HRESULT StopCreating ( long JobID );
```

### Parameters

*JobID*

[in] Job ID returned by StartDoc.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCreate Interface

## 6. RestoreDefaultSettings

### Description

Restore the default settings of PDFCreate.

### Syntax

```
HRESULT RestoreDefaultSettings ( long reserved );
```

### Parameters

*reserved*

[in] Reserved for ZEON Corporation.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Related setting is available through [IPDFGeneralSetting](#), [IPDFCompressionSetting](#), [IPDFFontEmbedSetting](#), [IWordMacroSetting](#) interfaces.

# IPDFCreate Interface

## 7. SetTimeout

### Description

Set time out value for a single convert job.

### Syntax

```
HRESULT SetTimeout ( long IMillisecond );
```

### Parameters

*IMillisecond*

[in] Maximum time interval for a single convert job.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCreate Interface

## 8. SetExcelSheetRange

### Description

Set the range of the Excel Sheet you want to convert.

### Syntax

```
HRESULT SetExcelSheetRange ( BSTR sRange );
```

### Parameters

*sRange*

[in] Specifies the zero based range number of the Excel sheet to convert ,Empty to convert all sheets.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCreate Interface

## 9. ConvertWithIni

### Description

Convert other format files to PDF according to ini setting.

### Syntax

```
HRESULT ConvertWithIni (  
    BSTR sSourceFile,  
    BSTR sDestFile,  
    BSTR sGeneralIniFilePath,  
    BSTR sDestinationIniFilePath,  
    BSTR sCompressionIniFilePath,  
    BSTR sFontIniFilePath,  
    BSTR sDocumentIniFilePath,  
    BSTR sSecurityIniFilePath,  
    BSTR sWatermarkIniFilePath );
```

### Parameters

*sSourceFile*

[in] Full path of the source file you want to convert to PDF.

*sDestFile*

[in] Destination path to save the resulting PDF file.

*sGeneralIniFilePath*

[in] General ini setting file path.

*sDestinationIniFilePath*

[in] Destination ini setting file path.

*sCompressionIniFilePath*

[in] Compression ini setting file path.

*sFontIniFilePath*

[in] Font ini setting file path.

*sDocumentIniFilePath*

[in] Document ini setting file path. Currently unused.

*sSecurityIniFilePath*

[in] Security ini setting file path. Currently unused.

*sWatermarkIniFilePath*

[in] Watermark ini setting file path. Currently unused.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorinfo Interface.

**Remarks**

Four events are fired during converting: StartDoc, StartPage, EndPage, and EndDoc.

# IPDFCreate Interface

## 10. GetGeneralSettingInterface

### Description

Get general setting interface.

### Syntax

```
HRESULT GetGeneralSettingInterface ( LPDISPATCH * IppDisp );
```

### Parameters

*IppDisp*

[out, retval] Return General Setting Interface.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IPDFCreate Interface

### 11. GetCompressionSettingInterface

#### Description

Get compression setting interface.

#### Syntax

```
HRESULT GetCompressionSettingInterface ( LPDISPATCH *  
IppDisp );
```

#### Parameters

*IppDisp*

[out, retval] Return Compression Setting Interface.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None



# IPDFCreate Interface

## 12. GetFontEmbedSettingInterface

### Description

Get font embed setting interface.

### Syntax

```
HRESULT GetFontEmbedSettingInterface ( LPDISPATCH *  
lppDisp );
```

### Parameters

*lppDisp*

[out, retval] Return font embed setting interface.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IPDFCreate Interface

### 13. GetWordMacroSettingInterface

#### Description

Get Word Macro setting interface.

#### Syntax

```
HRESULT GetWordMacroSettingInterface ( LPDISPATCH *  
lppDisp );
```

#### Parameters

*lppDisp*

[out, retval] Return Word Macro setting interface.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFCreate Interface

### 14. GetColorPolicySettingInterface

#### Description

Get Color Policy setting interface.

#### Syntax

```
HRESULT GetColorPolicySettingInterface ( LPDISPATCH *  
lppDisp );
```

#### Parameters

*lppDisp*

[out, retval] Return Color Policy setting interface.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFCreate Interface

### 15. GetVolumeLimit

#### Description

Get volume limit value.

#### Syntax

```
HRESULT GetVolumeLimit ( long * pPages, long * pFiles );
```

#### Parameters

*pPages*

[out, retval] Return volume limited pages number.

*pFiles*

[out, retval] Return volume limited files number.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFCreate Interface

### 16. GetVolumeLeft

#### Description

Get volume left value.

#### Syntax

```
HRESULT GetVolumeLeft ( long * pPages, long * pFiles );
```

#### Parameters

*pPages*

[out, retval] Return volume left pages number.

*pFiles*

[out, retval] Return volume left files number.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## ii. **\_IPDFCreateEvents**

Through `_IPDFCreateEvents` interface, application can receive events during file conversion.

## **\_IPDFCreateEvents Interface**

### **1. StartDoc**

#### **Description**

Inform the application that file conversion starts.

#### **Syntax**

```
void StartDoc ( long IJobID, BSTR sFileName );
```

#### **Parameters**

*SFileName*

[in] Full path of resulting PDF file.

*IJobID*

[in] A number used to identify the file being processed.

#### **Return Values**

None

#### **Remarks**

None

## **\_IPDFCreateEvents Interface**

### **2. StartPage**

#### **Description**

Inform the application that the specific page starts to be converted.

#### **Syntax**

```
void StartPage (long JobID, long iPageNo );
```

#### **Parameters**

*iPageNo*

[in] Specifies which page is being processed. The first page is 0.

*JobID*

[in] A number used to identify the file being processed.

#### **Return Values**

None

#### **Remarks**

None



## **\_IPDFCreateEvents Interface**

### **3. EndPage**

#### **Description**

Inform the application that the specific page has been converted.

#### **Syntax**

```
void EndPage (long JobID );
```

#### **Parameters**

*JobID*

[in] A number used to identify the file being processed.

#### **Return Values**

None

#### **Remarks**

Corresponding page number has been obtained by previous [StartPage](#).

## \_IPDFCreateEvents Interface

### 4. EndDoc

**Description**

Inform the application, that the conversion has been finished.

**Syntax**

```
void EndDoc ( long JobID );
```

**Parameters**

*JobID*

[in] A number used to identify the file being processed.

**Return Values**

None

**Remarks**

Corresponding file path has been obtained by previous [StartDoc](#).

## **\_IPDFCreateEvents Interface**

### **5. Abort**

#### **Description**

Inform the application that conversion process has been terminated.

#### **Syntax**

```
void Abort ( long JobID );
```

#### **Parameters**

*JobID*

[in] A number used to identify the file being processed.

#### **Return Values**

None

#### **Remarks**

When conversion process is terminated, COM will send this event, except that the process is cancel by the application through [StopCreating](#).

### **iii. \_IPDFQueryPasswordEvents**

Events that will be fired when the specified source file for conversion requires password. Please note that only source files of Microsoft Word and Microsoft Excel support this event.

## **\_IPDFQueryPasswordEvents Interface**

### **1. QueryPassword**

#### **Description**

Query the user for password of the source file.

#### **Syntax**

```
BSTR QueryPassword ( BSTR sFileName );
```

#### **Parameters**

*sFileName*

[in] Full file path name specifies which source file is being processed.

#### **Return Values**

Password of the source file. If NULL returned, COM will stop querying the password immediately and return fail.

#### **Remarks**

If returned password is invalid, COM will fire this event three times.

# \_IPDFQueryPasswordEvents Interface

## 2. PasswordIncorrect

### Description

Indicate the password for the specific file is incorrect.

### Syntax

```
void PasswordIncorrect ( BSTR sFileName );
```

### Parameters

*sFileName*

[in] Full path of the source file that is being processed.

### Return Values

None

### Remarks

None

#### **iv. IPDFGeneralSetting**

This interface provides methods to get or set general property related to file conversion. IPDFGeneralSetting interface must be retrieved through [GetGeneralSettingInterface](#) method.

# IPDFGeneralSetting Interface

## 1. UseCustomPageSize

### Description

UseCustomPageSize property controls whether to use the customized page size.

### Syntax

```
HRESULT get_UseCustomPageSize ( VARIANT_BOOL  
*pbUseCustomPageSize );
```

```
HRESULT put_UseCustomPageSize ( VARIANT_BOOL  
bUseCustomPageSize );
```

### Parameters

*pbUseCustomPageSize* [out, retval]

*bUseCustomPageSize* [in]

A boolean variable specifies whether to use the customized page size

TRUE = Use customized page size.

FALSE = Do not use customized page size.

Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IPDFGeneralSetting Interface

## 2. StandardPageSize

### Description

StandardPageSize property controls the standard page size in use.

### Syntax

```
HRESULT get_StandardPageSize ( StandardPageSizeEnum  
*peStandardPageSize );
```

```
HRESULT put_StandardPageSize ( StandardPageSizeEnum  
eStandardPageSize );
```

### Parameters

*peStandardPageSize* [out, retval]

*eStandardPageSize* [in]

A StandardPageSizeEnum variable specifies which predefined standard page size is in use. Default is SP\_A4.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of StandardPageSizeEnum:

```
enum {  
    SP_Letter           = 0,  
    SP_Legal           = 1,  
    SP_Tabloid         = 2,  
    SP_A4              = 3,  
    SP_A3              = 4,  
    SP_Executive       = 5,  
    SP_B4              = 6,  
    SP_B5              = 7,  
    SP_Screen          = 8  
} StandardPageSizeEnum ;
```

# IPDFGeneralSetting Interface

## 3. Unit

### Description

Unit property controls the unit used.

### Syntax

```
HRESULT get_Unit ( UnitEnum *peUnit );
```

```
HRESULT put_Unit ( UnitEnum eUnit );
```

### Parameters

*peUnit* [out, retval]

*eUnit* [in]

A UnitEnum variable specifies which predefined unit is in use. Default is Unit\_Inches.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of UnitEnum:

```
enum {  
    Unit_Inches = 0,  
    Unit_MM = 1,  
    Unit_Points =.2  
} UnitEnum ;
```

# IPDFGeneralSetting Interface

## 4. Margin

### Description

Margin property controls the paper margin in use.

### Syntax

```
HRESULT get_Margin ( double * pdMargin );
```

```
HRESULT put_Margin ( double dMargin );
```

### Parameters

*pdMargin* [out, retval]

*dMargin* [in]

A double variable specifies the paper margin in given unit. Default is 0.25.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFGeneralSetting Interface

## 5. Width

### Description

Width property controls the paper width in use.

### Syntax

```
HRESULT get_Width ( double *pdWidth );
```

```
HRESULT put_Width ( double dWidth );
```

### Parameters

*pdWidth* [out, retval]

*dWidth* [in]

A double variable specifies the paper width in given unit. Default is 200.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFGeneralSetting Interface

## 6. Height

### Description

Height property controls the paper height in use.

### Syntax

```
HRESULT get_Height ( double *pdHeight );
```

```
HRESULT put_Height ( double dHeight );
```

### Parameters

*pdHeight* [out, retval]

*dHeight* [in]

A double variable specifies the paper height in use. Default is 200.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFGeneralSetting Interface

## 7. Orientation

### Description

Orientation property controls the paper orientation in use, portrait or landscape.

### Syntax

```
HRESULT get_Orientation ( OrientationEnum *peOrientation );
```

```
HRESULT put_Orientation ( OrientationEnum eOrientation );
```

### Parameters

*peOrientation* [out, retval]

A OrientationEnum variable specifies which predefined orientation is in use. Default is Orien\_Portrait.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of OrientationEnum:

```
enum {  
    Orient_Portrait = 1,  
    Orient_Landscape = 2  
} OrientationEnum ;
```

# IPDFGeneralSetting Interface

## 8. Resolution

### Description

Resolution property controls the printer resolution in use.

### Syntax

```
HRESULT get_Resolution ( ResolutionEnum *peResolution );
```

```
HRESULT put_Resolution ( ResolutionEnum eResolution );
```

### Parameters

*peResolution* [out, retval]

*eResolution* [in]

A ResolutionEnum variable specifies which predefined printer resolution is in use. Default is Resolution\_600.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of ResolutionEnum

```
enum {  
    Resolution_72 = 0,  
    Resolution_150 = 1,  
    Resolution_300 = 2,  
    Resolution_600 = 3,  
    Resolution_1200 = 4,  
    Resolution_2400 = 5  
} ResolutionEnum ;
```

# IPDFGeneralSetting Interface

## 9. ZoomScale

### Description

Scale property controls the scale factor to be applied to pages.

### Syntax

```
HRESULT get_ZoomScale ( long *pScale );
```

```
HRESULT put_ZoomScale ( long Scale );
```

### Parameters

*pScale* [out, retval]

*Scale* [in]

A long variable specifies the scale factor in use. Default is 100

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IPDFGeneralSetting Interface

## 10. Compatible

### Description

Compatible controls the PDF specification version to be compatible of the resulting PDF file.

### Syntax

```
HRESULT get_Compatible ( CompatibleEnum *peCompatible );
```

```
HRESULT put_Compatible ( CompatibleEnum eCompatible );
```

### Parameters

*peCompatible* [out, retval]  
*eCompatible* [in]

A CompatibleEnum variable specifies the PDF specification to be compatible. Default is Compatible\_PDF14.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of CompatibleEnum:

```
enum {  
    Compatible_PDF13 = 0,  
    Compatible_PDF14 = 1,  
    Compatible_PDF15 = 2,  
    Compatible_PDF16 = 3,  
    Compatible_PDF17 = 4,  
    Compatible_PDF20 = 5,  
    Compatible_PDFA1b = -1,  
    Compatible_USPTO = -2,  
    Compatible_PDFA2b = -3,  
    Compatible_PDFA2u = -4,  
    Compatible_PDFA3b = -5,  
    Compatible_PDFA3u = -6,  
    Compatible_PDFX1a = -7,  
    Compatible_PDFX3 = -8,  
    Compatible_PDFE = -9  
} CompatibleEnum ;
```



## IPDFGeneralSetting Interface

### 11. ViewPDF

#### Description

ViewPDF property controls whether to view the resulting PDF file after conversion.

#### Syntax

```
HRESULT get_ViewPDF ( VARIANT_BOOL *pbViewPDF );
```

```
HRESULT put_ViewPDF ( VARIANT_BOOL bViewPDF );
```

#### Parameters

*pbViewPDF* [out, retval]

*bViewPDF* [in]

A boolean variable specifies whether to view the resulting PDF file.

TRUE = View the resulting PDF file.

FALSE = Do not view the resulting PDF file.

Default is FALSE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None.

## IPDFGeneralSetting Interface

### 12. OptimizePDF

#### Description

OptimizePDF property controls whether to optimize the resulting PDF file

#### Syntax

```
HRESULT get_OptimizePDF ( VARIANT_BOOL *pbOptimizePDF );
```

```
HRESULT put_OptimizePDF ( VARIANT bOptimizePDF );
```

#### Parameters

*pbOptimizePDF* [out, retval]

*bOptimizePDF* [in]

A boolean variable specifies whether to optimize the resulting PDF file.

TRUE = Optimize the resulting PDF file.

FALSE = Do not optimize the resulting PDF file.

Default is TRUE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## v. **IPDFCompressionSetting**

This interface provides methods to get or set properties related to compression settings while converting files. IPDFCompressionSetting interface must be retrieved through [GetCompressionSettinginterface](#) method.

# IPDFCompressionSetting Interface

## 1. AutoCompression

### Description

AutoCompression property controls whether to use auto compression while converting files.

### Syntax

```
HRESULT get_AutoCompression ( VARIANT_BOOL  
*pbAutoCompression );
```

```
HRESULT put_AutoCompression ( VARIANT_BOOL  
bAutoCompression );
```

### Parameters

*pbAutoCompression* [out, retval]

*bAutoCompression* [in]

A boolean variable specifies whether to use auto compression while converting files.

TRUE = Use auto compression.

FALSE = Do not use auto compression.

Default is TRUE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCompressionSetting Interface

## 2. AutoCompressionRate

### Description

AutoCompressionRate property controls rate optimized for general use.

### Syntax

```
HRESULT get_AutoCompressionRate ( long  
*pIAutoCompressionRate );
```

```
HRESULT put_AutoCompressionRate ( long  
IAutoCompressionRate );
```

### Parameters

*pIAutoCompressionRate* [out, retval]

*IAutoCompressionRate* [in]

A long variable specifies the rate optimized for general use. Default is 50.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCompressionSetting Interface

## 3. CompressColor

### Description

CompressColor property controls whether to compress color images while converting files.

### Syntax

```
HRESULT get_CompressColor ( VARIANT_BOOL  
*pbCompressColor );
```

```
HRESULT put_CompressColor ( VARIANT_BOOL  
bCompressColor );
```

### Parameters

*pbCompressColor* [out, retval]

*bCompressColor* [in]

A boolean variable specifies whether to compress color images while converting files. Default is TRUE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IPDFCompressionSetting Interface

## 4. ColorCompressMethod

### Description

ColorCompressMethod property controls which predefined compression method is in use for compressing for color image.

### Syntax

```
HRESULT get_ColorCompressMethod  
( ColorCompressMethodEnum *peColorCompressMethod );
```

```
HRESULT put_ColorCompressMethod  
( ColorCompressMethodEnum eColorCompressMethod );
```

### Parameters

*peColorCompressMethod* [out, retval]

*eColorCompressMethod* [in]

A ColorCompressMethodEnum variable specifies which predefined compression method to use for compressing color image. Default is CCM\_JPEG\_MEDIUM.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of ColorCompressMethodEnum:

```
enum {  
    CCM_JPEG_HIGH           = 0,  
    CCM_JPEG_MEDIUMHIGH   = 1,  
    CCM_JPEG_MEDIUM        = 2,  
    CCM_JPEG_MEDIUMLOW    = 3,  
    CCM_JPEG_LOW           = 4,  
    CCM_ZIP                 = 5,  
    CCM_JPEG2000_HIGH      = 15,  
    CCM_JPEG2000_MEDIUMHIGH = 16,  
    CCM_JPEG2000_MEDIUM    = 17,  
    CCM_JPEG2000_MEDIUMLOW = 18,  
    CCM_JPEG2000_LOW       = 19  
} ColorCompressMethodEnum ;
```

# IPDFCompressionSetting Interface

## 5. ReSampleColor

### Description

ReSampleColor controls whether to resample color image while converting files.

### Syntax

```
HRESULT get_ReSampleColor ( VARIANT_BOOL  
*pbReSampleColor );
```

```
HRESULT put_ReSampleColor ( VARIANT_BOOL  
bReSampleColor );
```

### Parameters

*pbReSampleColor* [out, retval]

*bReSampleColor* [in]

A boolean variable specifies whether to resample color image while converting files. Default is TRUE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCompressionSetting Interface

## 6. ColorReSampleMethod

### Description

ColorReSampleMethod controls which predefined resample method is in use for resampling color image.

### Syntax

```
HRESULT get_ColorReSampleMethod ( ReSampleMethodEnum  
*peColorReSampleMethod );
```

```
HRESULT put_ColorReSampleMethod ( ReSampleMethodEnum  
eColorReSampleMethod );
```

### Parameters

*peColorReSampleMethod* [out, retval]

*eColorReSampleMethod* [in]

A ReSampleMethodEnum variable specifies which predefined resample method is in use for resampling color image. Default is Down\_Sample.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

```
enum {  
    Down_Sample    = 0,  
    Sub_Sample     = 1  
} ReSampleMethodEnum ;
```

# IPDFCompressionSetting Interface

## 7. ColorReSampleResolution

### Description

ColorReSampleResolution controls the minimum resolution for resampling color image.

### Syntax

```
HRESULT get_ColorReSampleResolution ( long  
*pIColorReSampleResolution );
```

```
HRESULT put_ColorReSampleResolution ( long  
IColorReSampleResolution );
```

### Parameters

*pIColorReSampleResolution* [out, retval]

*IColorReSampleResolution* [in]

A long variable specifies the minimum resolution for resampling color image. Default is 150.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCompressionSetting Interface

## 8. CompressGray

### Description

CompressGray property control whether to compress gray images while converting files.

### Syntax

```
HRESULT get_CompressGary ( VARIANT_BOOL  
*pbCompressGray );
```

```
HRESULT put_CompressGray ( VARIANT_BOOL  
bCompressGray );
```

### Parameters

*pbCompressGray* [out, retval]

*bCompressGray* [in]

A boolean variable specifies whether to compress gray images while converting files. Default is TRUE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCompressionSetting Interface

## 9. GrayCompressMethod

### Description

GrayCompressMethod property controls which predefined compression method is in use for compressing gray image.

### Syntax

```
HRESULT get_GrayCompressMethod  
( ColorCompressMethodEnum *peGrayCompressMethod );
```

```
HRESULT put_GrayCompressMethod  
( ColorCompressMethodEnum eGrayCompressMethod );
```

### Parameters

*peGrayCompressMethod* [out, retval]

*eGrayCompressMethod* [in]

A ColorCompressMethodEnum specifies which predefined compression method to use for compressing gray image. Default is CCM\_JPEG\_MEDIUM.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

See definition of [ColorCompressMethod](#).

# IPDFCompressionSetting Interface

## 10. ReSampleGray

### Description

ReSampleGray property controls whether to resample gray image while converting files.

### Syntax

```
HRESULT get_ReSampleGray ( VARIANT_BOOL  
*pbReSampleGray );
```

```
HRESULT put_ReSampleGray ( VARIANT_BOOL  
bReSampleGary );
```

### Parameters

*pbReSampleGray* [out, retval]

*bReSampleGray* [in]

A boolean variable specifies whether to resample gray image while converting files. Default is TRUE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCompressionSetting Interface

## 11. GrayReSampleMethod

### Description

GrayReSampleMethod property controls which predefined resample method is in use for resampling gray image.

### Syntax

```
HRESULT get_GrayReSampleMethod ( ReSampleMethodEnum  
*peGrayReSampleMethod );
```

```
HRESULT put_GrayReSampleMethod ( ReSampleMethodEnum  
eGrayReSampleMethod );
```

### Parameters

*peGrayReSampleMethod* [out, retval]

*eGrayReSampleMethod* [in]

A ReSampleMethodEnum variable specifies which predefined resample method is in use for resampling gray image. Default is Down\_Sample.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

See definition of [ReSampleMethodEnum](#).



# IPDFCompressionSetting Interface

## 12. GrayReSampleResolution

### Description

GrayReSampleResolution property controls the minimum resolution for resampling gray image.

### Syntax

```
HRESULT get_GrayReSampleResolution ( long  
*pIGrayReSampleResolution );
```

```
HRESULT put_GrayReSampleResolution ( long  
IGrayReSampleResolution );
```

### Parameters

*pIGrayReSampleResolution* [out, retval]

*IGrayReSampleResolution* [in]

A long variable specifies the minimum resolution for resampling gray image. Default is 300.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCompressionSetting Interface

## 13. CompressMono

### Description

CompressMono property controls whether to compress Mono images while converting files.

### Syntax

```
HRESULT get_CompressMono ( VARIANT_BOOL  
*pbCompressMono );
```

```
HRESULT put_CompressMono ( VARIANT_BOOL  
bCompressMono );
```

### Parameters

*pbCompressMono* [out, retval]

*bCompressMono* [in]

A boolean variable specifies whether to compress mono images while converting files. Default is TRUE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCompressionSetting Interface

## 14. MonoCompressMethod

### Description

MonoCompressMethod property controls which predefined compression method is in use for compressing mono image.

### Syntax

```
HRESULT get_MonoCompressMethod  
( MonoCompressMethodEnum *peMonoCompressMethod );
```

```
HRESULT put_MonoCompressMethod  
( MonoCompressMethodEnum eMonoCompressMethod );
```

### Parameters

*peMonoCompressMethod* [out, retval]

*eMonoCompressMethod* [in]

A MonoCompressMethodEnum specifies which predefined compression method to use for compressing mono image. Default is MCM\_CCITT4.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

See definition of MonoCompressMethodEnum:

```
enum {  
    MCM_ZIP = 5,  
    MCM_CCITT3 = 6,  
    MCM_CCITT4 = 7,  
    MCM_RunLength = 8,  
} MonoCompressMethodEnum ;
```

## IPDFCompressionSetting Interface

### 15. ReSampleMonoImage

#### Description

ReSampleMonoImage property controls whether to resample mono image while converting files.

#### Syntax

```
HRESULT get_ReSampleMonoImage ( VARIANT_BOOL  
*pbReSampleMono );
```

```
HRESULT put_ReSampleMonoImage ( VARIANT_BOOL  
bReSampleMono );
```

#### Parameters

*pbReSampleMono* [out, retval]

*bReSampleMono* [in]

A boolean variable specifies whether to resample Mono image while converting files. Default is TRUE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

# IPDFCompressionSetting Interface

## 16. MonoReSampleMethod

### Description

MonoReSampleMethod property controls which predefined resample method is in use for resampling mono image.

### Syntax

```
HRESULT get_MonoReSampleMethod ( ReSampleMethodEnum  
*peMonoReSampleMethod );
```

```
HRESULT put_MonoReSampleMethod ( ReSampleMethodEnum  
eMonoReSampleMethod );
```

### Parameters

*peMonoReSampleMethod* [out, retval]

*eMonoReSampleMethod* [in]

A ReSampleMethodEnum variable specifies which predefined resample method is in use for resampling mono image. Default is Down\_Sample.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

See definition of [ReSampleMethodEnum](#).

# IPDFCompressionSetting Interface

## 17. MonoReSampleResolution

### Description

MonoReSampleResolution property controls the minimum resolution for resampling mono image.

### Syntax

```
HRESULT get_MonoReSampleResolution ( long  
*pIMonoReSampleResolution );
```

```
HRESULT put_MOnoReSampleResolution ( long  
IMonoReSampleResolution );
```

### Parameters

*pIMonoReSampleResolution* [out, retval]

*IMonoReSampleResolution* [in]

A long variable specifies the minimum resolution for resampling mono image. Default is 300.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## vi. IPDFFontEmbedSetting

This interface provides methods to get or set properties related to font embed settings while converting files. IPDFFontEmbedSetting interface must be retrieved through [GetFontEmbedSettingInterface](#) method.

# IPDFFontEmbedSetting Interface

## 1. EmbedAllFonts

### Description

EmbedAllFonts property controls whether to embed all the fonts while converting files.

### Syntax

```
HRESULT get_EmbedAllFonts ( VARIANT_BOOL  
*pbEmbedAllFonts );
```

```
HRESULT put_EmbedAllFonts ( VARIANT_BOOL  
bEmbedAllFonts );
```

### Parameters

*pbEmbedAllFonts* [out, retval]

*bEmbedAllFonts* [in]

A VARIANT\_BOOL Variable receives whether to embed all the fonts while converting files. Default is TRUE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IPDFFontEmbedSetting Interface

## 2. SubsetFont

### Description

SubsetFont property controls whether to subset the embedded font while converting files.

### Syntax

```
HRESULT get_SubsetFont ( VARIANT_BOOL *pbSubsetFont );
```

```
HRESULT put_SubsetFont ( VARIANT_BOOL bSubsetFont );
```

### Parameters

*pbSubsetFont* [out, retval]

*bSubsetFont* [in]

A boolean variable specifies whether to subset the embedded font while converting files. Default is TRUE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFFontEmbedSetting Interface

## 3. SubsetThreshold

### Description

SubsetThreshold property controls the threshold of embedding only the referenced characters of specific font while converting files, otherwise all the characters in the font will be embedded.

### Syntax

```
HRESULT get_SubsetThreshold ( long *pSubsetThreshold );
```

```
HRESULT put_SubsetThreshold ( long lSubsetThreshold );
```

### Parameters

*pSubsetThreshold* [out, retval]

*lSubsetThreshold* [in]

A to long variable specifies the maximum threshold for only embedding the referenced characters of specific font. Default is 75 which means the maximum threshold is 75%.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFFontEmbedSetting Interface

## 4. EnableAlwaysEmbed

### Description

EnableAlwaysEmbed property controls whether to enable the always embed font list

### Syntax

```
HRESULT get_EnableAlwaysEmbed ( VARIANT_BOOL  
*pbEnableAlwaysEmbed );
```

```
HRESULT put_EnableAlwaysEmbed ( VARIANT_BOOL  
bEnableAlwaysEmbed );
```

### Parameters

*pbEnableAlwaysEmbed* [out, retval]

*bEnableAlwaysEmbed* [in]

A boolean variable specifies whether to enable the always embed font list. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFFontEmbedSetting Interface

## 5. AlwaysEmbedCount

### Description

AlwaysEmbedCount property controls the number of fonts in the always embed font list.

### Syntax

```
HRESULT get_AlwaysEmbedCount ( long  
*pAlwaysEmbedCount );
```

```
HRESULT put_AlwaysEmbedCount ( long IAlwaysEmbedCount );
```

### Parameters

*pAlwaysEmbedCount* [out, retval]

*IAlwaysEmbedCount* [in]

A long variable specifies the number of fonts in the always embed font list. Default is 0.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFFontEmbedSetting Interface

## 6. AlwaysEmbedFontName

### Description

AlwaysEmbedFontName property controls the name of the font in the always embed font list.

### Syntax

```
HRESULT get_AlwaysEmbedFontName ( long index, BSTR  
*psAlwaysEmbedFontName );
```

```
HRESULT put_AlwaysEmbedFontName ( long index, BSTR  
sAlwaysEmbedFontName );
```

### Parameters

*index* [in]

Zero-based index of the font name in the always embed font list.

*psAlwaysEmbedFontName* [out, retval]

*sAlwaysEmbedFontName* [in]

A BSTR variable specifies the font name indicated by *index*.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFFontEmbedSetting Interface

## 7. EnableNeverEmbed

### Description

EnableNeverEmbed property controls whether to enable the never embed font list

### Syntax

```
HRESULT get_EnableNeverEmbed ( VARIANT_BOOL  
*pbEnableNeverEmbed );
```

```
HRESULT put_EnableNeverEmbed ( VARIANT_BOOL  
bEnableNeverEmbed );
```

### Parameters

*pbEnableNeverEmbed* [out, retval]

*bEnableNeverEmbed* [in]

A boolean variable specifies whether to enable the never embed font list. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFFontEmbedSetting Interface

## 8. NeverEmbedCount

### Description

NeverEmbedCount property controls the number of fonts in the never embed font list.

### Syntax

```
HRESULT get_NeverEmbedCount ( long *pINeverEmbedCount );
```

```
HRESULT put_NeverEmbedCount ( long INeverEmbedCount );
```

### Parameters

*pINeverEmbedCount* [out, retval]

*INeverEmbedCount* [in]

A long variable specifies the number of fonts in the never embed font list. Default is 0.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFFontEmbedSetting Interface

## 9. NeverEmbedFontName

### Description

NeverEmbedFontName property controls the name of the font in the never embed font list.

### Syntax

```
HRESULT get_NeverEmbedFontName ( long index, BSTR  
*psNeverEmbedFontName );
```

```
HRESULT put_NeverEmbedFontName ( long index, BSTR  
sNeverEmbedFontName );
```

### Parameters

*index* [in]

Zero-based index of the font name in the never embed font list.

*psNeverEmbedFontName* [out, retval]

*sNeverEmbedFontName* [in]

A BSTR variable specifies the font name indicated by index.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



## **vii. IWordMacroSetting**

This interface provides methods to get or set properties related to WordMacro settings while converting Microsoft Word files. IWordMacroSetting interface must be retrieved through [GetWordMacroSettingInterface](#) method.

# IWordMacroSetting Interface

## 1. AutoBookmark

### Description

AutoBookmark property controls whether to add bookmark while converting files.

### Syntax

```
HRESULT get_AutoBookmark ( VARIANT_BOOL *  
pbAutoBookmark );
```

```
HRESULT put_AutoBookmark ( VARIANT_BOOL  
bAutoBookmark );
```

### Parameters

*pbAutoBookmark* [out, retval]

*bAutoBookmark* [in]

A boolean variable specifies whether to add bookmark while converting files. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IWordMacroSetting Interface

## 2. DoNote

### Description

DoNote property controls whether to add note while converting files.

### Syntax

```
HRESULT get_DoNote ( VARIANT_BOOL * pbDoNote );
```

```
HRESULT put_DoNote ( VARIANT_BOOL bDoNote );
```

### Parameters

*pbDoNote* [out, retval]

*bDoNote* [in]

A boolean variable specifies whether to add note while converting files. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IWordMacroSetting Interface

### 3. DoInternetLink

#### Description

DoInternetLink property controls whether to add internet link while converting files.

#### Syntax

```
HRESULT get_DoInternetLink ( VARIANT_BOOL *  
pbDoInternetLink );
```

```
HRESULT put_DoInternetLink ( VARIANT_BOOL bDoInternetLink );
```

#### Parameters

*pbDoInternetLink* [out, retval]

*bDoInternetLink* [in]

A boolean variable specifies whether to add internet link while converting files. Default is FALSE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

# IWordMacroSetting Interface

## 4. DoCrossDocuLink

### Description

DoCrossDocuLink property controls whether to add cross document link while converting files.

### Syntax

```
HRESULT get_DoCrossDocuLink ( VARIANT_BOOL *  
pbDoCrossDocuLink );
```

```
HRESULT put_DoCrossDocuLink ( VARIANT_BOOL  
bDoCrossDocuLink );
```

### Parameters

*pbDoCrossDocuLink* [out, retval]

*DoCrossDocuLink* [in]

A boolean variable specifies whether to add cross document link while converting files. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IWordMacroSetting Interface

## 5. DoCrossRefLink

### Description

DoCrossRefLink property controls whether to add cross reference link while converting files.

### Syntax

```
HRESULT get_DoCrossRefLink ( VARIANT_BOOL *  
pbDoCrossRefLink );
```

```
HRESULT put_DoCrossRefLink ( VARIANT_BOOL  
bDoCrossRefLink );
```

### Parameters

*pbDoCrossRefLink* [out, retval]

*DoCrossRefLink* [in]

A boolean variable specifies whether to add cross reference link while converting files. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IWordMacroSetting Interface

## 6. ConvertTextBox

### Description

ConvertTextBox property controls whether to convert textbox while converting files.

### Syntax

```
HRESULT get_ConvertTextBox ( VARIANT_BOOL *  
pbConvertTextBox );
```

```
HRESULT put_ConvertTextBox ( VARIANT_BOOL  
bConvertTextBox );
```

### Parameters

*pbConvertTextBox* [out, retval]

*bConvertTextBox* [in]

A boolean variable specifies whether to convert textbox while converting files. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IWordMacroSetting Interface

## 7. AutoComment

### Description

AutoComment property controls whether to add comment while converting files.

### Syntax

```
HRESULT get_AutoComment ( VARIANT_BOOL *  
pbAutoComment );
```

```
HRESULT put_AutoComment ( VARIANT_BOOL bAutoComment );
```

### Parameters

*pbAutoComment* [out, retval]

*bAutoComment* [in]

A boolean variable specifies whether to add comment while converting files. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IWordMacroSetting Interface

## 8. DoMetadata

### Description

DoMetadata property controls whether to embed metadata into result pdf file while converting files.

### Syntax

```
HRESULT get_DoMetadata ( VARIANT_BOOL * pbMetadata);
```

```
HRESULT put_DoMetadata ( VARIANT_BOOL bMetadata );
```

### Parameters

*pbMetadata* [out, retval]

*bMetadata* [in]

A boolean variable specifies whether to embed metadata while converting files. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IWordMacroSetting Interface

### 9. DoTag

#### Description

DoTag property controls whether to create a tagged pdf while converting MS Word documents.

#### Syntax

```
HRESULT get_DoTag ( VARIANT_BOOL * pbDoTag );
```

```
HRESULT put_DoTag ( VARIANT_BOOL bDoTag );
```

#### Parameters

*pbDoTag* [out, retval]

*bDoTag* [in]

A boolean variable specifies whether to create a tagged pdf while converting MS Word documents. Default is FALSE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IWordMacroSetting Interface

### 10. DoTextBoxTag

#### Description

DoTextBoxTag property controls whether the Textboxes should be assigned tags while converting files.

#### Syntax

```
HRESULT get_DoTextBoxTag ( VARIANT_BOOL *  
pbDoTextBoxTag );
```

```
HRESULT put_DoTextBoxTag ( VARIANT_BOOL  
bDoTextBoxTag );
```

#### Parameters

*pbDoTextBoxTag* [out, retval]

*bDoTextBoxTag* [in]

A boolean variable specifies whether the Textboxes should be assigned tags while converting files. Default is FALSE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IWordMacroSetting Interface

### 11. DoShapeTag

#### Description

DoShapeTag property controls whether the Shapes should be assigned tags while converting files.

#### Syntax

```
HRESULT get_DoShapeTag ( VARIANT_BOOL * pbDoShapeTag );
```

```
HRESULT put_DoShapeTag ( VARIANT_BOOL bDoShapeTag );
```

#### Parameters

*pbDoShapeTag* [out, retval]

*bDoShapeTag* [in]

A boolean variable specifies whether the Shapes should be assigned tags while converting files. Default is FALSE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IWordMacroSetting Interface

### 12. DoInlineShapeTag

#### Description

DoInlineShapeTag property controls whether the in-line Shapes should be assigned tags while converting files.

#### Syntax

```
HRESULT get_DoInlineShapeTag ( VARIANT_BOOL *  
pbDoInlineShapeTag );
```

```
HRESULT put_DoInlineShapeTag ( VARIANT_BOOL  
bDoInlineShapeTag );
```

#### Parameters

*pbDoInlineShapeTag* [out, retval]

*bDoInlineShapeTag* [in]

A boolean variable specifies whether the in-line Shapes should be assigned tags while converting files. Default is FALSE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None



## viii. IColorPolicySetting

This interface provides methods to get or set properties related to Color Policy settings while converting to PDF/X-1a and PDF/X-3 compliant files. It is only valid when setting [IPDFGeneralSetting](#)'s [Compatible](#) as `Compatible_PDFX1a` or `Compatible_PDFX3`.

IColorPolicySetting interface must be retrieved through [GetColorPolicySettingInterface](#) method.

# IColorPolicySetting Interface

## 1. Method

### Description

Method property controls which predefined method is used for converting unmanaged color.

### Syntax

```
HRESULT get_Method ( ColorPolicyMethodEnum *peMethod );
```

```
HRESULT put_Method ( ColorPolicyMethodEnum eMethod );
```

### Parameters

*peMethod* [out, retval]

*eMethod* [in]

A ColorPolicyMethodEnum variable specifies which predefined method is used for converting unmanaged color. Default is CPM\_Color\_Unchanged.

When [IPDFGeneralSetting](#)'s [Compatible](#) is Compatible\_PDFX1a, this parameter must be CPM\_Color\_ToCMYK.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of ColorPolicyMethodEnum:

```
enum {  
    CPM_Color_Unchanged    = 0,  
    CPM_Color_ToRGB        = 1,  
    CPM_Color_ToCMYK       = 2  
} ColorPolicyMethodEnum;
```



# IColorPolicySetting Interface

## 2. Intent

### Description

Internt property controls which predefined method is used for mapping colors between color spaces.

### Syntax

```
HRESULT get_Intent( ColorPolicyIntentEnum *peIntent );
```

```
HRESULT put_Intent (ColorPolicyIntentEnum eIntent );
```

### Parameters

*peIntent* [out, retval]

*eIntent* [in]

A ColorPolicyIntentEnum variable specifies which predefined method is used for mapping colors between color spaces. Default is CPI\_Relative\_Colorimetric.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of ColorPolicyIntentEnum:

```
enum {  
    CPI_Perceptual = 0,  
    CPI_Relative_Colorimetric = 1,  
    CPI_Saturation = 2,  
    CPI_Absolute_Colorimetric = 3  
} ColorPolicyIntentEnum;
```

# IColorPolicySetting Interface

## 3. RGBProfile

### Description

RGBProfile property controls the full path of the ICC RGB color profile that is used for converting unmanaged color.

### Syntax

```
HRESULT get_RGBProfile( BSTR *psRGBProfile );
```

```
HRESULT put_RGBProfile (BSTR sRGBProfile );
```

### Parameters

*psRGBProfile* [out, retval]

*sRGBProfile* [in]

A BSTR variable specifies the full path of the ICC RGB color profile that is used for converting unmanaged color.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IColorPolicySetting Interface

## 4. CMYKProfile

### Description

CMYKProfile property controls the full path of the ICC CMYK color profile that is used for converting unmanaged color.

### Syntax

```
HRESULT get_CMYKProfile( BSTR *psCMYKProfile );
```

```
HRESULT put_CMYKProfile (BSTR sCMYKProfile );
```

### Parameters

*psCMYKProfile* [out, retval]

*sCMYKProfile* [in]

A BSTR variable specifies the full path of the ICC CMYK color profile that is used for converting unmanaged color.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IColorPolicySetting Interface

## 5. OutputIntentProfile

### Description

OutputIntentProfile property controls the full path of the ICC color profile that will be embedded as an output intent in the result PDF.

The profile must be a CMYK one and its class must be 'prtr', which means an output profile.

### Syntax

```
HRESULT get_OutputIntentProfile( BSTR *psOutputIntentProfile );
```

```
HRESULT put_OutputIntentProfile(BSTR sOutputIntentProfile );
```

### Parameters

*psOutputIntentProfile* [out, retval]

*sOutputIntentProfile* [in]

A BSTR variable specifies the full path of the ICC color profile that will be embedded as an output intent in the result PDF.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IColorPolicySetting Interface

## 6. OutputConditionId

### Description

OutputConditionId property controls the reference name that is specified by the registry of the output intent profile name.

### Syntax

```
HRESULT get_OutputConditionId ( BSTR *psOutputConditionId );
```

```
HRESULT put_OutputConditionId (BSTR sOutputConditionId );
```

### Parameters

*psOutputConditionId* [out, retval]

*sOutputConditionId* [in]

A BSTR variable specifies the reference name that is specified by the registry of the output intent profile name.

When [UseOutputConditionId](#) is true, this parameter must be specified.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IColorPolicySetting Interface

## 7. OutputCondition

### Description

OutputCondition property controls the intended printing condition in human-readable string form.

### Syntax

```
HRESULT get_OutputCondition ( BSTR *psOutputCondition );
```

```
HRESULT put_OutputCondition (BSTR sOutputCondition );
```

### Parameters

*psOutputCondition* [out, retval]

*sOutputCondition* [in]

A BSTR variable specifies the intended printing condition.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IColorPolicySetting Interface

## 8. RegistryName

### Description

RegistryName property controls the web address that is used to find the information about the output intent profile.

### Syntax

```
HRESULT get_RegistryName ( BSTR *psRegistryName );
```

```
HRESULT put_RegistryName (BSTR sRegistryName );
```

### Parameters

*psRegistryName* [out, retval]

*sRegistryName* [in]

A BSTR variable specifies the web address that is used to find the information about the output intent profile.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IColorPolicySetting Interface

## 9. UseOutputConditionId

### Description

UseOutputConditionId property controls whether to use output condition Identifier and does not embed output intent profile.

### Syntax

```
HRESULT get_UseOutputConditionId (VARIANT_BOOL  
*pUseOutputConditionId);
```

```
HRESULT put_UseOutputConditionId (VARIANT_BOOL  
UseOutputConditionId );
```

### Parameters

*pbUseOutputConditionId* [out, retval]

*bUseOutputConditionId* [in]

A boolean variable specifies whether to use output condition Identifier and does not embed output intent profile in the result pdf.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



## II. PDFCmd

PDFCmd component object provides interface to modify PDF document in a variety of ways, including: [document information](#), [security setting](#), [open option](#), [page manipulation](#), [watermark](#), [combination](#), and [package](#).

## i. IPDFCmd

IPDFCmd is the default sink interface of PDFCmd component object and provides methods for initializing PDFCmd component object, besides methods to create [IPDFFileEdit](#), [IPDFCombine](#) and [IPDFPackage](#) interfaces.

# IPDFCmd Interface

## 1. Initialize

### Description

Initialize the PDFCmd component.

### Syntax

```
HRESULT Initialize ( BSTR sn, long reserved );
```

### Parameters

*sn*

[in] Serial number.

*reserved*

[in] Reserved for ZEON Corporation. Must be set to 0.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

PDFCmd must be initialized before invoking its method.

# IPDFCmd Interface

## 2. Uninitialize

### Description

Close the PDFCmd component

### Syntax

```
HRESULT Uninitialize ( );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

This method must be called before terminating the application.

# IPDFCmd Interface

## 3. CreateFileEditInterface

### Description

Create a IPDFFileEdit interface.

### Syntax

```
HRESULT CreateFileEditInterface ( LPDISPATCH *piFileEdit );
```

### Parameters

*piFileEdit*

[out, retval] A pointer to the returned IPDFFileEdit interface. NULL if create fails.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Application must release the interface after using it.

# IPDFCmd Interface

## 4. CreateCombineInterface

### Description

Create a IPDFCombine interface.

### Syntax

```
HRESULT CreateCombineInterface ( LPDISPATCH *piCombine );
```

### Parameters

*piCombine*

[out, retval] A pointer to the returned IPDFCombine interface.  
NULL if create fails.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Application must release the interface after using it.

# IPDFCmd Interface

## 5. CreatePackageInterface

### Description

Create a IPDFPackage interface.

### Syntax

```
HRESULT CreatePackageInterface ( LPDISPATCH *piPackage );
```

### Parameters

*piPackage*

[out, retval] A pointer to the returned IPDFPackage interface.  
NULL if create fails.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Application must release the interface after using it.

# IPDFCmd Interface

## 6. Compatible

### Description

Compatible property controls PDF specification version with which the modified PDF file is compatible.

### Syntax

```
HRESULT get_Compatible ( CompatibleEnum * peCompatible );
```

```
HRESULT put_Compatible ( CompatibleEnum eCompatible );
```

### Parameters

*peCompatible* [out, retval]

*eCompatible* [in]

A CompatibleEnum variable specifies the PDF specification to be compatible. Default is Compatible\_PDF14.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

See definition of [CompatibleEnum](#).



## ii. IPDFFileEdit

IPDFFileEdit is the main interface for editing PDF document, through which you could retrieve [IPDFDocInfoSetting](#), [IPDFSecuritySetting](#), [IPDFOpenOptionSetting](#) and create [IPDFPageEdit](#), [IPDFTextWatermark](#), [IPDFImageWatermark](#) interfaces.

# IPDFFileEdit Interface

## 1. Open

### Description

Open a PDF file.

### Syntax

```
HRESULT Open ( VARIANT sFilePath, BSTR sOpenPassword,  
BSTR sOwnerPassword );
```

### Parameters

*sFilePath*

[in] Full path of the specific PDF file that you want to open. You should pass the type VT\_BSTR to this variable and use bstrVal to store the file path.

*sOpenPassword*

[in] Password for opening the PDF file.

*sOwnerPassword*

[in] Password for modifying the PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFFileEdit Interface

## 2. NewPDF

### Description

Create a new PDF file (without any page).

### Syntax

```
HRESULT NewPDF ( );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Caution: You can not save the new created PDF file until you add or insert at least one page to the PDF file.

## IPDFFileEdit Interface

### 3. Save

#### Description

Save the PDF file.

#### Syntax

```
HRESULT Save ( BSTR sFilePath);
```

#### Parameters

*sFilePath*

[in] Full destination path of the PDF file.

If *sFilePath* = NULL, save the PDF file directly, otherwise “save as” the PDF file as it is indicated by the value of *sFilePath*.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFFileEdit Interface

### 4. Close

**Description**

Close the PDF file.

**Syntax**

```
HRESULT Close ( void );
```

**Parameters**

None

**Return Values**

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

**Remarks**

None

# IPDFFileEdit Interface

## 5. GetPageNum

### Description

Get the page number of the PDF file.

### Syntax

```
HRESULT GetPageNum ( long *plPageNum );
```

### Parameters

*plPageNum*

[out, retval] A pointer to a long variable specifies the page number of the PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFFileEdit Interface

## 6. CreatePageEditInterface

### Description

Create an IPDFPageEdit interface.

### Syntax

```
HRESULT CreatePageEditInterface ( LPDISPATCH *piPageEdit );
```

### Parameters

*piPageEdit*

[out, retval] A Pointer to the returned IPDFPageEdit interface.  
NULL if create fails.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Application must release the interface after using it.

# IPDFFileEdit Interface

## 7. AddPDFMark

### Description

Add specific PDF mark file to the PDF file.

### Syntax

```
HRESULT AddPDFMark ( BSTR sMarkFile );
```

### Parameters

*sMarkFile*

[in] Full path of the PDF mark file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IPDFFileEdit Interface

## 8. CreateTextWatermark

### Description

Create an IPDFTextWatermark interface.

### Syntax

```
HRESULT CreateTextWatermark ( LPDISPATCH  
*piTextWatermark );
```

### Parameters

*piTextWatermark*

[out, retval] A pointer to the returned IPDFTextWatermark interface. NULL if create fails.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Application must release the interface after using it.

# IPDFFileEdit Interface

## 9. CreateImageWatermark

### Description

Create an IPDFImageWatermark interface.

### Syntax

```
HRESULT CreateImageWatermark ( LPDISPATCH  
    *pImageWatermark );
```

### Parameters

*pImageWatermark*

[out, retval] A pointer to the returned IPDFImageWatermark interface. NULL if create fails.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Application must release the interface after using it.

## IPDFFileEdit Interface

### 10. GetDocInfoInterface

#### Description

Get the IPDFDocInfo interface.

#### Syntax

```
HRESULT GetDocInfoInterface ( LPDISPATCH *piDocInfo );
```

#### Parameters

*piDocInfo*

[out, retval] A pointer to the returned IPDFDocInfo interface.  
NULL if create fails.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

Application must release the interface after using it.

## IPDFFileEdit Interface

### 11. GetSecurityInterface

#### Description

Get the IPDFSecurity interface.

#### Syntax

```
HRESULT GetSecurityInterface ( LPDISPATCH *piSecurity );
```

#### Parameters

*piSecurity*

[out, retval] A pointer to the returned IPDFSecurity interface.  
NULL if create fails.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

Application must release the interface after using it

## IPDFFileEdit Interface

### 12. GetOpenOptionInterface

#### Description

Get the IPDFOpenOption interface.

#### Syntax

```
HRESULT GetOpenOptionInterface ( LPDISPATCH  
*piOpenOption );
```

#### Parameters

*piOpenOption*

[out, retval] A pointer to the returned IPDFOpenOption interface.  
NULL if create fails.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

Application must release the interface after using it

### iii. IPDFDocInfoSetting

Through IPDFDocInfoSetting interface, application could get or set the Document Information of the specific PDF file. IPDFDocInfoSetting interface must be retrieved through [GetDocInfoInterface](#) method.

# IPDFDocInfoSetting Interface

## 1. Title

### Description

Title property controls the title of the PDF file.

### Syntax

```
HRESULT get_Title ( BSTR *psTitle );
```

```
HRESULT put_Title ( BSTR sTitle );
```

### Parameters

*psTitle* [out, retval]

*sTitle* [in]

A BSTR variable specifies the title of the PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFDocInfoSetting Interface

## 2. Subject

### Description

Subject property controls the subject of the PDF file.

### Syntax

```
HRESULT get_Subject ( BSTR *psSubject );
```

```
HRESULT put_Subject ( BSTR sSubject );
```

### Parameters

*psSubject* [out, retval]

*sSubject* [in]

A BSTR variable specifies the subject of the PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IPDFDocInfoSetting Interface

## 3. Keyword

### Description

Keyword property controls the keyword of the PDF file.

### Syntax

```
HRESULT get_Keyword ( BSTR *psKeyword );
```

```
HRESULT put_Keyword ( BSTR sKeyword );
```

### Parameters

*psKeyword* [out, retval]

*sKeyword* [in]

A BSTR variable specifies the keyword of the PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFDocInfoSetting Interface

## 4. Author

### Description

Author property controls the author of the PDF file.

### Syntax

```
HRESULT get_Author ( BSTR *psAuthor );
```

```
HRESULT put_Author ( BSTR sAuthor );
```

### Parameters

*psAuthor* [out, retval]

*sAuthor* [in]

A BSTR variable specifies the author of the PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFDocInfoSetting Interface

## 5. GetCustomDocInfoCount

### Description

Get the amount of custom document information of the specific PDF file.

### Syntax

```
HRESULT GetCustomDocInfoCount ( long *pCustomInfoCount );
```

### Parameters

*pCustomInfoCount*

[out, retval] A pointer to a long variable specifies the number of custom document information of the specific PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFDocInfoSetting Interface

## 6. GetCustomDocInfo

### Description

Get specific custom document information of the PDF file.

### Syntax

```
HRESULT GetCustomDocInfo ( long index, BSTR *psCustomKey,  
BSTR *psCustomValue );
```

### Parameters

*index*

[in] Zero-based index of the custom document information in the PDF file.

*psCustomKey*

[out, retval] A pointer to a BSTR variable specifies the key name of the custom document information.

*psCustomValue*

[out, retval] A pointer to a BSTR variable specifies the value of the custom document information.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFDocInfoSetting Interface

## 7. AddCustomDocInfo

### Description

Add custom document information to the PDF file.

### Syntax

```
HRESULT AddCustomDocInfo ( BSTR sCustomKey, BSTR  
sCustomValue );
```

### Parameters

*sCustomKey*

[out, retval] Specifies the key name of the custom document information that you want to add to the PDF file.

*sCustomValue*

[out, retval] Specifies the corresponding value of the custom document information.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFDocInfoSetting Interface

## 8. DeleteCustomDocInfo

### Description

Delete specific custom document information from the PDF file.

### Syntax

```
HRESULT DeleteCustomDocInfo ( BSTR sCustomKey );
```

### Parameters

*sCustomKey*

[out, retval] Specifies the key name of the custom document information that you want to delete.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFDocInfoSetting Interface

## 9. Creator

### Description

Creator property controls the creator of PDF file.

### Syntax

```
HRESULT get_Creator ( BSTR *psCreator );
```

```
HRESULT put_Creator ( BSTR sCreator );
```

### Parameters

*psCreator* [out, retval]

*sCreator* [in]

A BSTR variable specifies the creator of the PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFDocInfoSetting Interface

## 10. Producer

### Description

Producer property controls the producer of PDF file.

### Syntax

```
HRESULT get_Producer ( BSTR *psProducer );
```

```
HRESULT put_Producer ( BSTR sProducer );
```

### Parameters

*psProducer* [out, retval]

*sProducer* [in]

A BSTR variable specifies the producer of the PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



## IPDFDocInfoSetting Interface

### 11. LoadDocInfoSettingFromIni

#### Description

Load document information setting from ini setting file.

#### Syntax

```
HRESULT LoadDocInfoSettingFromIni ( BSTR sIniPath );
```

#### Parameters

*sIniPath*

[in] the path of document information setting file.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

#### **iv. IPDFSecuritySetting**

It provide methods to get or set security property of PDF files.  
IPDFSecuritySetting interface must be retrieved through [GetSecurityInterface](#) method.

# IPDFSecuritySetting Interface

## 1. open\_password

### Description

open\_password property controls the open password of specific PDF files.

### Syntax

```
HRESULT get_open_password ( BSTR *psOpenPassword );
```

```
HRESULT put_open_password ( BSTR sOpenPassword );
```

### Parameters

*psOpenPassword* [out, retval]

*sOpenPassword* [in]

A BSTR variable specifies the open password of the PDF files.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

The [get\\_open\\_password](#) method will only retrieve the open password which set by the [put\\_open\\_password](#) method, will not retrieve the open password of the existing PDF file.

# IPDFSecuritySetting Interface

## 2. owner\_password

### Description

owner\_password property controls the owner password of specific PDF files.

### Syntax

```
HRESULT get_owner_password ( BSTR *psOwnerPassword );
```

```
HRESULT put_owner_password ( BSTR sOwnerPassword );
```

### Parameters

*psOwnerPassword* [out, retval]

*sOwnerPassword* [in]

A BSTR variable specifies the owner password of the PDF files.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

The `get_owner_password` method will only retrieve the owner password which set by the `put_owner_password` method, will not retrieve the owner password of the existing PDF file.

# IPDFSecuritySetting Interface

## 3. canPrint

### Description

canPrint property controls whether the PDF file is allowed to be printed.

### Syntax

```
HRESULT get_canPrint ( VARIANT_BOOL *pbCanPrint );
```

```
HRESULT put_canPrint ( VARIANT_BOOL bCanPrint );
```

### Parameters

*pbCanPrint* [out, retval]

*bCanPrint* [in]

A boolean variable specifies whether the PDF file is allowed to be printed.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFSecuritySetting Interface

## 4. canAnnotate

### Description

canAnnotate property controls whether you can add annotate to the PDF file.

### Syntax

```
HRESULT get_canAnnotate ( VARIANT_BOOL *pbCanAnnotate );
```

```
HRESULT put_canAnnotate ( VARIANT_BOOL bCanAnnotate );
```

### Parameters

*pbCanAnnotate* [out, retval]

*bCanAnnotate* [in]

A boolean variable specifies whether you can add annotation to the PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFSecuritySetting Interface

## 5. canCopy

### Description

canCopy property controls whether the PDF file is allowed to be copied.

### Syntax

```
HRESULT get_canCopy ( VARIANT_BOOL *pbCanCopy );
```

```
HRESULT put_canCopy ( VARIANT_BOOL bCanCopy );
```

### Parameters

*pbCanCopy* [out, retval]

*bCanCopy* [in]

A boolean variable specifies whether the PDF file is allowed to be copied.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFSecuritySetting Interface

## 6. canModify

### Description

canModify property controls whether the PDF file is allowed to be modified.

### Syntax

```
HRESULT get_canModify ( VARIANT_BOOL *pbCanModify );
```

```
HRESULT put_canModify ( VARIANT_BOOL bCanModify );
```

### Parameters

*pbCanModify* [out, retval]

*bCanModify* [in]

A boolean variable specifies whether the PDF file is allowed to be modified.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IPDFSecuritySetting Interface

## 7. canContentCopyAndExtraction

### Description

canContentCopyAndExtraction property controls whether the content of the PDF file is allowed to be copied and extracted.

### Syntax

```
HRESULT get_canContentCopyAndExtraction ( VARIANT_BOOL  
*pbCanContentCopyAndExtraction );
```

```
HRESULT put_canContentCopyAndExtraction ( VARIANT_BOOL  
bCanContentCopyAndExtraction );
```

### Parameters

*pbCanContentCopyAndExtraction* [out, retval]

*bCanContentCopyAndExtraction* [in]

A boolean variable specifies whether the content of the PDF file is allowed to be copied and extracted.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFSecuritySetting Interface

## 8. canContentAccessForVisuallyImpaired

### Description

canContentAccessForVisuallyImpaired property controls whether the content of the PDF file is allowed to be accessible to the visually impaired.

### Syntax

```
HRESULT get_canContentAccessForVisuallyImpaired  
( VARIANT_BOOL *pbCanContentAccessForVisuallyImpaired );
```

```
HRESULT put_canContentAccessForVisuallyImpaired  
( VARIANT_BOOL bCanContentAccessForVisuallyImpaired );
```

### Parameters

*pbCanContentAccessForVisuallyImpaired* [out, retval]  
*bCanContentCopyAndExtraction* [in]

A boolean variable specifies whether the content of the PDF file is allowed to be accessed for visually impaired.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFSecuritySetting Interface

## 9. encryptionLevel

### Description

encryptionLevel property controls which predefined encryption level is in use.

### Syntax

```
HRESULT get_encryptionLevel ( EncryptionLevelEnum  
*peEncryptionLevel );
```

```
HRESULT put_encryptionLevel ( EncryptionLevelEnum  
eEncryptionLevel );
```

### Parameters

*peEncryptionLevel* [out, retval]

*eEncryptionLevel* [in]

A EncryptionLevelEnum variable specifies which predefined encryption level is in use. Default is EL\_40Bits.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of EncryptionLevelEnum:

```
enum {  
    EL_None           = 0,  
    EL_40Bits        = 40,  
    EL_128Bits       = 128,  
    EL_128BitsAES    = 1280,  
    EL_256BitsAESLow = 256,  
    EL_256BitsAESHigh = 2560  
} EncryptionLevelEnum ;
```

# IPDFSecuritySetting Interface

## 10. changesAllowed

### Description

changesAllowed property controls which predefined allowed change level is in use.

### Syntax

```
HRESULT get_changesAllowed ( ChangesAllowedEnum  
*peChangesAllowed );
```

```
HRESULT put_changesAllowed ( ChangesAllowedEnum  
eChangesAllowed );
```

### Parameters

*peChangesAllowed* [out, retval]

*eChangesAllowed* [in]

A ChangesAllowedEnum variable specifies which predefined allowed change level is in use. Default is CA\_GENERAL.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of ChangesAllowedEnum:

```
enum {  
    CA_NOT_ALLOWED          = 0,  
    CA_ONLY_DOCUMENT       = 1,  
    CA_ONLY_FORM           = 2,  
    CA_COMMENT_AUTHOR      = 3,  
    CA_GENERAL              = 4  
} ChangesAllowedEnum ;
```

# IPDFSecuritySetting Interface

## 11. printingAllowed

### Description

printingAllowed property controls which predefined allowed printing level to use.

### Syntax

```
HRESULT get_printingAllowed ( PrintingAllowedEnum  
*pePrintingAllowed );
```

```
HRESULT put_printingAllowed ( PrintingAllowedEnum  
ePrintingAllowed );
```

### Parameters

*pePrintingAllowed* [out, retval]

*ePrintingAllowed* [in]

A PrintingAllowedEnum variable specifies which predefined allowed printing level is in use. Default is PA\_FULL\_ALLOWED.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of PrintingAllowedEnum:

```
enum {  
    PA_NOT_ALLOWED          = 0,  
    PA_LOW_RESOLUTION      = 1,  
    PA_FULL_ALLOWED        = 2  
} PrintingAllowedEnum;
```

## IPDFSecuritySetting Interface

### 12. SetSecurity

#### Description

Set the security property for the PDF file.

#### Syntax

```
HRESULT SetSecurity ( );
```

#### Parameters

None

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

You must call this method to apply all the previous setting to the PDF file.

## IPDFSecuritySetting Interface

### 13. RemoveSecurity

**Description**

Remove security property of the PDF file.

**Syntax**

```
HRESULT RemoveSecurity ( );
```

**Parameters**

None

**Return Values**

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

**Remarks**

None

## IPDFSecuritySetting Interface

### 14. LoadSecuritySettingFromIni

#### Description

Load Security setting from ini setting file.

#### Syntax

```
HRESULT LoadSecuritySettingFromIni ( BSTR sIniPath );
```

#### Parameters

*sIniPath*

[in] The path of security ini setting file.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None



## IPDFSecuritySetting Interface

### 15. RemoveSecurityWithPassword

#### Description

Remove PDF file's security with password.

#### Syntax

```
HRESULT RemoveSecurityWithPassword ( BSTR password );
```

#### Parameters

*password*

[in] The password of PDF file.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## v. IPDFOpenOptionSetting

This interface provides method to get or set open option of the PDF file. IPDFOpenOptionSetting interface must be retrieved through [GetOpenOptionInterface](#) method.

# IPDFOpenOptionSetting Interface

## 1. Magnification

### Description

Magnification property controls which predefined magnification level is in use.

### Syntax

```
HRESULT get_Magnification ( MagnificationEnum  
*peMagnification );
```

```
HRESULT put_Magnification ( MagnificationEnum eMagnification );
```

### Parameters

*peMagnification* [out, retval]

*eMagnification* [in]

A MagnificationEnum variable specifies which predefined magnification level is in use. Default is Scale\_Default.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of MagnificationEnum:

```
enum {  
    Scale_Default      = 0,  
    Scale_FitVisible   = 1,  
    Scale_FitWidth     = 2,  
    Scale_FitInWindow  = 3,  
    Scale_25           = 25,  
    Scale_50           = 50,  
    Scale_75           = 75,  
    Scale_100          = 100,  
    Scale_125          = 125,  
    Scale_150          = 150,  
    Scale_200          = 200,  
    Scale_400          = 400,  
    Scale_800          = 800,  
    Scale_1600         = 1600  
} MagnificationEnum;
```

# IPDFOpenOptionSetting Interface

## 2. InitialPage

### Description

InitialPage property controls the initial page to display when the PDF file is opened.

### Syntax

```
HRESULT get_InitialPage ( long *pInitialPage );
```

```
HRESULT put_InitialPage ( long eInitialPage );
```

### Parameters

*pInitialPage* [out, retval]

*eInitialPage* [in]

A long variable specifies which page to display when open the PDF file. The first page is 0. Default is 0.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFOpenOptionSetting Interface

## 3. Layout

### Description

Layout property controls the initial page layout.

### Syntax

```
HRESULT get_Layout ( LayoutEnum *peLayout );
```

```
HRESULT put_Layout ( LayoutEnum eLayout );
```

### Parameters

*peLayout* [out, retval]

*eLayout* [in]

A LayoutEnum variable specifies the initial page layout. Default is Layout\_Default.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of LayoutEnum:

```
enum {  
    Layout_Default = 0,  
    Layout_SinglePage = 1,  
    Layout_ContinuousPage = 2,  
    Layout_FacingPage = 3,  
    Layout_ContinuousFacing = 4,  
    Layout_FacingCoverPage = 5,  
    Layout_ContinuousFacingCoverPage = 6  
} LayoutEnum;
```

# IPDFOpenOptionSetting Interface

## 4. InitialWindow

### Description

InitialWindow property controls the initial window's size and position.

### Syntax

```
HRESULT get_InitialWindow ( InitialWindowEnum  
*peInitialWindow );
```

```
HRESULT put_InitialWindow ( InitialWindowEnum eInitialWindow );
```

### Parameters

*peInitialWindow* [out, retval]  
*eInitialWindow* [in]

A InitialWindowEnum variable specifies the initial window's size and position. Default is IW\_Default.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of InitialWindowEnum:

```
enum {  
    IW_Default          = 0,  
    IW_ResizeWindow    = 1,  
    IW_CenterWindow    = 2,  
    IW_FullScreen      = 4  
} InitWindowEnum;
```

# IPDFOpenOptionSetting Interface

## 5. NavigationPane

### Description

NavigationPane property controls the initial navigation pane to show.

### Syntax

```
HRESULT get_NavigationPane ( NavigationPaneEnum  
*peNavigationPane );
```

```
HRESULT put_NavigationPane ( NavigationPaneEnum  
eNavigationPane );
```

### Parameters

*peNavigationPane* [out, retval]

*eNavigationPane* [in]

A NavigationPaneEnum variable specifies the initial navigation pane to show. Default is NP\_None.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of NavigationPaneEnum:

```
enum {  
    NP_None           = 0,  
    NP_Bookmark       = 1,  
    NP_Thumbnail      = 2,  
    NP_Comments       = 3,  Obsolete, for compatible  
    NP_Attachment     = 3,  
    NP_Layer          = 4,  
} NavigationPaneEnum;
```

# IPDFOpenOptionSetting Interface

## 6. HideToolbar

### Description

HideToolbar property controls whether to hide the toolbar when PDF file is opened.

### Syntax

```
HRESULT get_HideToolbar ( VARIANT_BOOL *peHideToolbar );
```

```
HRESULT put_HideToolbar ( VARIANT_BOOL eHideToolbar );
```

### Parameters

*peHideToolbar* [out, retval]

*eHideToolbar* [in]

A boolean variable specifies whether to hide the toolbar when the PDF file is opened.

TRUE = Hide the toolbar.

FALSE = Do not hide the toolbar.

Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IPDFOpenOptionSetting Interface

## 7. HideMenubar

### Description

HideMeunbar property controls whether to hide the menubar when PDF file is opened.

### Syntax

```
HRESULT get_HideMenubar ( VARIANT_BOOL *peHideMenubar );
```

```
HRESULT put_HideMenubar ( VARIANT_BOOL eHideMenubar );
```

### Parameters

*peHideMenubar* [out, retval]

*eHideMenubar* [in]

A boolean variable specifies whether to hide the menubar when the PDF file is opened.

TRUE = Hide the menubar.

FALSE = Do not hide the menubar.

Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFOpenOptionSetting Interface

## 8. HideControl

### Description

HideControl property controls whether to hide the window control when PDF file is opened.

### Syntax

```
HRESULT get_HideControl ( VARIANT_BOOL *peHideControl );
```

```
HRESULT put_HideControl ( VARIANT_BOOL eHideControl );
```

### Parameters

*peHideControl* [out, retval]

*eHideControl* [in]

A boolean variable specifies whether to hide the window control when the PDF file is opened.

TRUE = Hide the window control.

FALSE = Do not hide the window control.

Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFOpenOptionSetting Interface

## 9. ShowDocumentTitle

### Description

ShowDocumentTitle property controls whether to display the document title on the window caption.

### Syntax

```
HRESULT get_ShowDocumentTitle ( VARIANT_BOOL  
*peShowDocumentTitle );
```

```
HRESULT put_ShowDocumentTitle ( VARIANT_BOOL  
eShowDocumentTitle );
```

### Parameters

*peShowDocumentTitle* [out, retval]

*eShowDocumentTitle* [in]

A boolean variable specifies whether to display the document title on the window caption.

TRUE = Show the document title.

FALSE = Do not Show the document title.

Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IPDFOpenOptionSetting Interface

### 10. LoadOpenSettingFromIni

#### Description

Load open setting from ini setting file.

#### Syntax

```
HRESULT LoadOpenSettingFromIni ( BSTR sIniPath );
```

#### Parameters

*sIniPath*

[in] Specifies ini file path for opening option setting.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## vi. IPDFPageEdit

It provides methods for general operation of a single page. Application must create IPDFPageEdit interface through [CreatePageEditInterface](#) method and release the interface after using.

# IPDFPageEdit Interface

## 1. CreateNewPage

### Description

Create a new blank page.

### Syntax

```
HRESULT CreateNewPage (long IAfterPageNum, long IWidth, long IHeight);
```

### Parameters

*IAfterPageNum*

[in] The page number after which the new page is inserted. The first page is 0. Use -1 to insert the new page at the beginning of a document.

*IWidth*

[in] Page's width.

*IHeight*

[in] Page's height.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFPageEdit Interface

## 2. Open

### Description

Open a page of the specific PDF file.

### Syntax

```
HRESULT Open ( long IPageNo );
```

### Parameters

*IPageNo*

[in] Zero-based page number of the page you want to open.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFPageEdit Interface

## 3. GetPageWidthHeight

### Description

Get width and height of current page

### Syntax

```
HRESULT GetPageWidthHeight ( VARIANT_BOOL  
    bMarkedAreaOnly, long *pWidth, long *pHeight );
```

### Parameters

*bMarkedAreaOnly*

[in] Specifies whether to get the width and height of the marked area only.

*pWidth*

[out, retval] A pointer to a long variable specifies the page's width.

*pHeight*

[out, retval] A pointer to a long variable specifies the page's height.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

This method could only be called after having opened or created a page.



# IPDFPageEdit Interface

## 4. Delete

### Description

Delete a specific page.

### Syntax

```
HRESULT Delete ( );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

If you have deleted a page, you can not do any other operations to that deleted page!

# IPDFPageEdit Interface

## 5. Rotate

### Description

Rotate a page.

### Syntax

```
HRESULT Rotate ( VARIANT_BOOL bClockwise );
```

### Parameters

*bClockwise*

[in] Specifies how to rotate the page.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None.

# IPDFPageEdit Interface

## 6. Crop

### Description

Crop a page.

### Syntax

```
HRESULT Crop ( double dLeft, double dTop, double dRight, double dBottom );
```

### Parameters

*dLeft*, *dTop*, *dRight*, *dBottom*  
[in] Crop rectangle.

### Return Values

S\_OK  
The method succeeded.  
Others  
Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFPageEdit Interface

## 7. Insert

### Description

Insert a page after current page.

### Syntax

```
HRESULT Insert ( IPDFPageEdit *piSrcPage );
```

### Parameters

*piSrcPage*

[in] A pointer to a IPDFPageEdit interface specifies the page you want to insert after the current page.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFPageEdit Interface

## 8. Close

### Description

Close IPDFPageEdit interface.

### Syntax

```
HRESULT Close ( );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

You must close IPDFPageEdit interface after using it.

# IPDFPageEdit Interface

## 9. GetPageBitmap

### Description

Convert one page of PDF file into bitmap.

### Syntax

```
HRESULT GetPageBitmap ( float fScale, VARIANT_BOOL  
bMarkedAreaOnly, long * pHBitmap );
```

### Parameters

*fScale*

[in] Scale number of bitmap.

*bMarkedAreaOnly*

[in] Whether to only convert marked area into bitmap.

*pHBitmap*

[out, retval] HBITMAP handle.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

After get HBITMAP handle, must use DeleteObject of Windows API to release memory.

## IPDFPageEdit Interface

### 10. GetPageRotation

#### Description

Get rotation angle of current page.

#### Syntax

```
HRESULT GetPageRotation ( long *pIRotation );
```

#### Parameters

*pIRotation*

[out, retval] A pointer to a long variable specifies the page's rotation angle.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

This method could only be called after having opened or created a page.

## **vii. IPDFWatermarkInfo**

It provides methods to get or set general properties of watermark information. IPDFWatermarkInfo interface is the base interface of both [IPDFTextWatermark](#) and [IPDFImageWatermark](#) interfaces. All properties defined here also apply to the two interfaces derived.



# IPDFWatermarkInfo Interface

## 1. Anchor

### Description

Anchor property controls the anchor point of the watermark on the page.

### Syntax

```
HRESULT get_Anchor ( AnchorEnum *peAnchor );
```

```
HRESULT get_Anchor ( AnchorEnum eAnchor );
```

### Parameters

*peAnchor* [out, retval]

*eAnchor* [in]

A AnchorEnum variable specifies the anchor point of the watermark on the page. Default is Anchor\_LeftTop.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of AnchorEnum

```
enum{  
    Anchor_PageCenter           = 0,  
    Anchor_LeftTop              = 1,  
    Anchor_RightTop             = 2,  
    Anchor_RightBottom         = 3,  
    Anchor_LeftBottom           = 4,  
    Anchor_TopEdgeCenter        = 5,  
    Anchor_RightEdgeCenter      = 6,  
    Anchor_BottomEdgeCenter     = 7,  
    Anchor_LeftEdgeCenter       = 8  
} AnchorEnum;
```

# IPDFWatermarkInfo Interface

## 2. Unit

### Description

Unit property controls the unit of watermark.

### Syntax

```
HRESULT get_Unit ( UnitEnum *peUnit );
```

```
HRESULT put_Unit ( UnitEnum eUnit );
```

### Parameters

*peUnit* [out, retval]

*eUnit* [in]

A UnitEnum variable specifies the unit of the watermark on the page. Default is Unit\_Inches.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of UintEnum

```
enum{  
    Unit_Inches = 0,  
    Unit_MM     = 1,  
    Unit_Points = 2  
} UnitEnum;
```

## IPDFWatermarkInfo Interface

### 3. XOffset

#### Description

XOffset property controls the distance in given unit between watermark and the left side of the page.

#### Syntax

```
HRESULT get_XOffset ( double *pdXOffset );
```

```
HRESULT put_XOffset ( double dXOffset );
```

#### Parameters

*pdXOffset* [out, retval]

*dXOffset* [in]

A double specifies the distance in given unit between watermark and leftside of the page.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

# IPDFWatermarkInfo Interface

## 4. YOffset

### Description

YOffset property controls the distance in given unit between watermark and the top side of the page.

### Syntax

```
HRESULT get_YOffset ( double *pdYOffset );
```

```
HRESULT put_YOffset ( double dYOffset );
```

### Parameters

*pdYOffset* [out, retval]

*dYOffset* [in]

A double specifies the distance in given unit between watermark and topside of the page.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFWatermarkInfo Interface

## 5. CrossPageWatermark

### Description

CrossPageWatermark property controls whether watermark should be displayed on 2 continuous pages.

### Syntax

```
HRESULT get_CrossPageWatermark ( VARIANT_BOOL  
*pbCrossPageWatermark );
```

```
HRESULT put_CrossPageWatermark ( VARIANT_BOOL  
bCrossPageWatermark );
```

### Parameters

*pbCrossPageWatermark* [out, retval]

*bCrossPageWatermark* [in]

A boolean variable specifies whether watermark should be displayed on 2 continuous pages. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFWatermarkInfo Interface

## 6. Binding

### Description

Binding property controls which predefined cross page watermark position is in use.

### Syntax

```
HRESULT get_Binding ( BindingEnum *peBinding );
```

```
HRESULT put_Binding ( BindingEnum eBinding );
```

### Parameters

*peBinding* [out, retval]

*eBinding* [in]

A BindingEnum variable specifies which predefined cross page watermark position is in use. Default is LEFT\_BINDING.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of BindingEnum:

```
enum  
{  
    LEFT_BINDING    = 0,  
    RIGHT_BINDING   = 1,  
    TOP_BINDING     = 2  
}; BindingEnum;
```

For more information of every specific property or settings, please see "PDF Driver SDK" as a reference.

# IPDFWatermarkInfo Interface

## 7. Clearance

### Description

Get the margin between cross page watermark and the page edge.

### Syntax

```
HRESULT get_Clearance ( double *pdClearance );
```

```
HRESULT put_Clearance ( double dClearance );
```

### Parameters

*pdClearance* [out, retval]

*dClearance* [in]

A double variable specifies the margin between cross page watermark and the page edge. Default is 0.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFWatermarkInfo Interface

## 8. Position

### Description

Position property controls the distance between cross page watermark and the page origin.

### Syntax

```
HRESULT get_Position ( double *pdPosition );
```

```
HRESULT put_Position ( double dPosition );
```

### Parameters

*pdPosition* [out, retval]

*dPosition* [in]

A double variable specifies the distance between cross page watermark and the page origin. Default is 148.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IPDFWatermarkInfo Interface

## 9. Duplex

### Description

Duplex property controls whether to duplex printing with the correct cross page watermark on facing pages.

### Syntax

```
HRESULT get_Duplex ( VARIANT_BOOL *pbDuplex );
```

```
HRESULT put_Duplex ( VARIANT_BOOL bDuplex );
```

### Parameters

*pbDuplex* [out, retval]

*bDuplex* [in]

A boolean variable specifies whether to duplex printing with the correct cross page watermark on facing pages. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IPDFWatermarkInfo Interface

### 10. Angle

#### Description

Angle property controls the rotation angle of the watermark.

#### Syntax

```
HRESULT get_Angle ( long *psAngle );
```

```
HRESULT put_Angle ( long sAngle );
```

#### Parameters

*psAngle* [out, retval]

*sAngle* [in]

A long variable specifies the rotation angle of the watermark.  
Default is 0.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFWatermarkInfo Interface

### 11. Opacity

#### Description

Opacity property controls the opacity of the text watermark.

#### Syntax

```
HRESULT get_Opacity ( double *pdOpacity );
```

```
HRESULT put_Opacity ( double dOpacity );
```

#### Parameters

*pdOpacity* [out, retval]

*dOpacity* [in]

A double variable specifies the opacity of the text watermark. Default is 100 – fully obscure the underline contents – no transparency.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFWatermarkInfo Interface

### 12. Background

#### Description

Background property controls whether watermark is the background of PDF file.

#### Syntax

```
HRESULT get_Background ( VARIANT_BOOL *bBackground );
```

```
HRESULT put_Background ( VARIANT_BOOL bBackground );
```

#### Parameters

*bBackground* [out, retval]

*bBackground* [in]

A bool variable specifies whether watermark is background of PDF file. Default value is FALSE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFWatermarkInfo Interface

### 13. ShowOnScreen

#### Description

ShowOnScreen property controls whether watermark is displayed on screen.

#### Syntax

```
HRESULT get_ShowOnScreen ( VARIANT_BOOL  
*bShowOnScreen );
```

```
HRESULT put_ShowOnScreen ( VARIANT_BOOL  
bShowOnScreen );
```

#### Parameters

*bShowOnScreen* [out, retval]

*bShowOnScreen* [in]

A bool variable specifies whether watermark is showed on screen.  
Default value is FALSE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFWatermarkInfo Interface

### 14. ShowOnPrint

#### Description

ShowOnPrint property controls whether watermark is displayed while printing.

#### Syntax

```
HRESULT get_ShowOnPrint ( VARIANT_BOOL *bShowOnPrint );
```

```
HRESULT put_ShowOnPrint ( VARIANT_BOOL bShowOnPrint );
```

#### Parameters

*bShowOnPrint* [out, retval]

*bShowOnPrint* [in]

A bool variable specifies whether watermark is showed while printing. Default value is FALSE.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFWatermarkInfo Interface

### 15. PageRange

#### Description

PageRange property controls page range of PDF file with watermark.

#### Syntax

```
HRESULT get_PageRange ( BSTR * psPageRange );
```

```
HRESULT put_PageRange ( BSTR sPageRange );
```

#### Parameters

*psPageRange* [out, retval]

*sPageRange* [in]

A BSTR variable specifies page range of PDF file with watermark.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFWatermarkInfo Interface

### 16. EvenOdd

#### Description

EvenOdd property controls which even and/or odd pages of PDF file get watermark.

#### Syntax

```
HRESULT get_EvenOdd (EvenOddRangeEnum * peEvenOdd);
```

```
HRESULT put_EvenOdd (EvenOddRangeEnum eEvenOdd);
```

#### Parameters

*peEvenOdd* [out, retval]

*eEvenOdd* [in]

A EvenOddRangeEnum value receives which even and/or odd pages of PDF file will have watermark. Default value is Range\_EvenOdd.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

```
Enum EvenOddRangeEnum {  
    Range_EvenOdd    = 0,  
    Range_OddOnly    = 1,  
    Range_EvenOnly   = 2  
} EvenOddrangeEnum;
```



## IPDFWatermarkInfo Interface

### 17. AddWatermark

**Description**

Add watermark to the PDF file.

**Syntax**

```
HRESULT AddWatermark ( void );
```

**Parameters**

None

**Return Values**

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

**Remarks**

None

## IPDFWatermarkInfo Interface

### 18. Redo

#### Description

Redo operation of watermark.

#### Syntax

```
HRESULT Redo ( void );
```

#### Parameters

None

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFWatermarkInfo Interface

### 19. Undo

#### Description

Undo operation of watermark.

#### Syntax

```
HRESULT Undo ( void );
```

#### Parameters

None

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

### **viii. IPDFTextWatermark**

It provides methods for editing settings of text watermark. IPDFTextWatermark is derived from [IPDFWatermarkInfo](#) interface and must be create through [CreateTextWatarmark](#) method.

# IPDFTextWatermark Interface

## 1. Text

### Description

Text property controls the watermark text string.

### Syntax

```
HRESULT get_Text ( BSTR *psText );
```

```
HRESULT put_Text ( BSTR sText );
```

### Parameters

*psText* [out, retval]

*sText* [in]

A BSTR variable specifies the watermark text string.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFTextWatermark Interface

## 2. TextFont

### Description

Text font property controls the watermark text font.

### Syntax

```
HRESULT get_TextFont ( BSTR *psTextFont );
```

```
HRESULT put_TextFont ( BSTR sTextFont );
```

### Parameters

*psTextFont* [out, retval]

*sTextFont* [in]

A BSTR variable specifies the watermark text font. Default is Arial.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IPDFTextWatermark Interface

### 3. TextSize

#### Description

TextSize property controls the watermark text size.

#### Syntax

```
HRESULT get_TextSize ( long *psTextSize );
```

```
HRESULT put_TextSize ( long sTextSize );
```

#### Parameters

*psTextSize* [out, retval]

*sTextSize* [in]

A long variable specifies the watermark text size. Default is 72.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

# IPDFTextWatermark Interface

## 4. TextStyle

### Description

TextStyle property controls the watermark text font style.

### Syntax

```
HRESULT get_Text Style ( FontStyleEnum *peTextStyle );
```

```
HRESULT put_Text Style ( FontStyleEnum eTextStyle );
```

### Parameters

*psText* [out, retval]

*sText* [in]

A FontStyleEnum variable specifies the watermark text font style.  
Default is FS\_Bold.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of FontStyleEnum:

```
enum  
{  
    FS_Normal = 0,  
    FS_Bold = 1,  
    FS_Italic = 2,  
    FS_BoldItalic= 3  
} FontStyleEnum;
```



# IPDFTextWatermark Interface

## 5. TextColorRed

### Description

TextColorRed property controls the red portion of text watermark color.

### Syntax

```
HRESULT get_TextColorRed ( long *psTextColorRed );
```

```
HRESULT put_TextColorRed ( long sTextColorRed );
```

### Parameters

*psTextColorRed* [out, retval]

*sTextColorRed* [in]

A long variable specifies the red portion of text watermark color.  
Default is 120.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFTextWatermark Interface

## 6. TextColorGreen

### Description

TextColorGreen property controls the green portion of text watermark color.

### Syntax

```
HRESULT get_TextColorGreen ( long *psTextColorGreen );
```

```
HRESULT put_TextColorGreen ( long sTextColorGreen );
```

### Parameters

*psTextColorGreen* [out, retval]

*sTextColorGreen* [in]

A long variable specifies the green portion of text watermark color.  
Default is 120.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFTextWatermark Interface

## 7. TextColorBlue

### Description

TextColorBlue property controls the blue portion of text watermark color.

### Syntax

```
HRESULT get_TextColorBlue ( long *psTextColorBlue );
```

```
HRESULT put_TextColorBlue ( long sTextColorBlue );
```

### Parameters

*psTextColorBlue* [out, retval]

*sTextColorBlue* [in]

A long variable specifies the blue portion of text watermark color.  
Default is 120.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFTextWatermark Interface

## 8. OutlineOnly

### Description

OutlineOnly property controls whether to display the outline of the text only.

### Syntax

```
HRESULT get_OutlineOnly ( VARIANT_BOOL *pbOutlineOnly );
```

```
HRESULT put_OutlineOnly ( VARIANT_BOOL bOutlineOnly );
```

### Parameters

*pbOutlineOnly* [out, retval]

*bOutlineOnly* [in]

A boolean variable specifies whether to display the outline of the text only. Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFTextWatermark Interface

## 9. LoadSettingFromIni

### Description

Set text watermark information from ini setting file.

### Syntax

```
HRESULT LoadSettingFromIni ( BSTR sIniPath, BSTR sTitle );
```

### Parameters

*sIniPath*

[in] Specifies ini file path.

*sTitle*

[in] Specifies watermark's title in ini file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## ix. IPDFImageWatermark

It provides methods to get or set properties of image or PDF watermark. IPDFImageWatermark is derived from [IPDFWatermarkInfo](#) interface and must be created through [CreateImageWatermark](#) method.

# IPDFImageWatermark Interface

## 1. FileName

### Description

FileName property controls the full path of the file containing content that is used as watermark.

### Syntax

```
HRESULT get_FileName ( BSTR *psFileName );
```

```
HRESULT get_FileName ( BSTR sFileName );
```

### Parameters

*psFileName* [out, retval]

*sFileName* [in]

A BSTR variable specifies the full path of the file containing contents that is used as watermark.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFImageWatermark Interface

## 2. Width

### Description

Width property controls the width (in points) of the watermark bounding-box that is used to accept the image or PDF watermark.

### Syntax

```
HRESULT get_Width ( double *pdWidth );
```

```
HRESULT put_Width ( double dWidth );
```

### Parameters

*pdWidth* [out, retval]

*dWidth* [in]

A double variable specifies the width (in points) of the watermark bounding-box that is used to accept the image or PDF watermark.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



# IPDFImageWatermark Interface

## 3. Height

### Description

Height property controls the height (in points) of the watermark bounding-box that is used to accept the image or PDF watermark.

### Syntax

```
HRESULT get_Height ( double *pdHeight );
```

```
HRESULT put_Height ( double dHeight );
```

### Parameters

*pdHeight* [out, retval]

*dHeight* [in]

A double variable specifies the height (in points) of the watermark bounding-box that is used to accept the image or PDF watermark.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFImageWatermark Interface

## 4. KeepRatio

### Description

KeepRatio property controls whether to keep the ratio of the image or PDF watermark.

### Syntax

```
HRESULT get_KeepRaio ( VARIANT_BOOL *pbKeepRatio );
```

```
HRESULT put_KeepRaio ( VARIANT_BOOL bKeepRatio );
```

### Parameters

*pbKeepRatio* [out, retval]

*bKeepRatio* [in]

A boolean variable specifies whether to keep the ratio of the image or PDF watermark.

TRUE = Image or PDF watermark is scaled and positioned without distortion.

FALSE = Do not keep the ratio.

Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFImageWatermark Interface

## 5. CoverWholePage

### Description

CoverWholePage property controls whether to display the watermark covering the whole page.

### Syntax

```
HRESULT get_CoverWholePage ( VARIANT_BOOL  
*pbCoverWholePage );
```

```
HRESULT put_CoverWholePage ( VARIANT_BOOL  
bCoverWholePage );
```

### Parameters

*pbCoverWholePage* [out, retval]

*bCoverWholePage* [in]

A boolean variable specifies whether to display the watermark covering the whole page.

TRUE = Display the watermark covering the whole page.

FALSE = Do not display the watermark covering the whole page.

Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFImageWatermark Interface

## 6. PagelIdentifier

### Description

PagelIdentifier property controls the number of the page used as watermark.

### Syntax

```
HRESULT get_PagelIdentifier ( long *pIPagelIdentifier );
```

```
HRESULT put_PagelIdentifier ( long IPagelIdentifier );
```

### Parameters

*pIPagelIdentifier* [out, retval]

*IPagelIdentifier* [in]

Zero-based page number of the page used as watermark. Default is 0.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFImageWatermark Interface

## 7. MarkedAreaOnly

### Description

MarkedAreaOnly property controls whether to use the marked area as watermark only.

### Syntax

```
HRESULT get_MarkedAreaOnly ( VARIANT_BOOL  
*pbMarkedAreaOnly );
```

```
HRESULT put_MarkedAreaOnly ( VARIANT_BOOL  
bMarkedAreaOnly );
```

### Parameters

*pbMarkedAreaOnly* [out, retval]

*bMarkedAreaOnly* [in]

A boolean variable specifies whether to use the marked area as watermark only.

TRUE = Only use the marked area as watermark.

FALSE = Use the whole page as watermark – including white area.

Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFImageWatermark Interface

## 8. LoadSettingFromIni

### Description

Set image watermark information from ini setting file.

### Syntax

```
HRESULT LoadSettingFromIni ( BSTR sIniPath, BSTR sTitle );
```

### Parameters

*sIniPath*

[in] Specifies ini file path.

*sTitle*

[in] Specifies watermark's title in ini file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## **x. IPDFCombine**

It provides method to concatenate or overlay several PDF files into one PDF file.

# IPDFCombine Interface

## 1. AddFile

### Description

Add a specific file into the list of the files to be combined.

### Syntax

```
HRESULT AddFile ( BSTR sFileName, BSTR sPassword );
```

### Parameters

*sFileName*

[in] Full path of the selected PDF file.

*sPassword*

[in] Password of the PDF file, could be NULL.

### Return Values

S\_OK

The method succeeded.

S\_FALSE

Failed. File specified by *sFileName* is not a PDF file.

### Remarks

The PDF file will not be opened until actual combination is executed, such as [Concat](#) or [Overlay](#). This method will return S\_OK, even if the input password for the PDF file is invalid.



# IPDFCombine Interface

## 2. Concat

### Description

Combine several PDF files into one PDF file.

### Syntax

```
HRESULT Concat ( BSTR sTargetFile );
```

### Parameters

*sTargetFile*

[in] Full path of the resulting PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

You should call [AddFile](#) first, before using this method. Four events are fired during combination: [StartJob](#), [StartDoc](#), [EndDoc](#), and [EndJob](#). If the password input when adding the PDF file is invalid, [QueryPassword](#) and [QueryContinue](#) are also fired.

# IPDFCombine Interface

## 3. Overlay

### Description

Overlay multiple PDF files into one PDF file.

### Syntax

```
HRESULT Overlay ( BSTR sTargetFile );
```

### Parameters

*sTargetFile*

[in] Full path of the resulting PDF file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

You should call [AddFile](#) first, before using this method. In addition, [MergeOrder](#), [Anchor](#), and [MergeRepeat](#) should also be called if needed. Four events are fired during combination: [StartJob](#), [StartDoc](#), [EndDoc](#), and [EndJob](#). If the password input when adding the PDF file is invalid, [QueryPassword](#) and [QueryContinue](#) are also fired.

# IPDFCombine Interface

## 4. IsCombining

### Description

Whether another combination is in process.

### Syntax

```
HRESULT IsCombining ( VARIANT_BOOL *pblsCombining );
```

### Parameters

*pblsCombining*

[out, retval] Whether another combination process is in process.

TRUE = PDF combination is in process.

FALSE = No combination is in process.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Application should call this method to verify that no other combination is in process before using [Concat](#) or [Overlay](#) method.

Otherwise [Concat](#) or [Overlay](#) will fail and return.

# IPDFCombine Interface

## 5. StopCombining

### Description

Stop the progressing combination.

### Syntax

```
HRESULT StopCombining ( );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFCombine Interface

## 6. MergeOrder

### Description

MergeOrder property controls which predefined MergeOrder for overlaying is in use

### Syntax

```
HRESULT get_MergeOrder ( MergeOrderEnum *peMergeOrder );
```

```
HRESULT put_MergeOrder ( MergeOrderEnum eMergeOrder );
```

### Parameters

*peMergeOrder* [out, retval]

*eMergeOrder* [in]

A MergeOrderEnum specifies which predefined MergeOrder for overlaying is in use. Default is MO\_Background.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of MergeOrderEnum:

```
enum {  
    MO_Background = 0,  
    MO_Foreground = 1  
} MergeOrderEnum;
```

# IPDFCombine Interface

## 7. Anchor

### Description

Anchor property controls which predefined merge rules for overlaying are in use.

### Syntax

```
HRESULT get_Anchor ( BSTR *psAnchor );
```

```
HRESULT put_Anchor ( BSTR sAnchor );
```

### Parameters

*psAnchor* [out, retval]

*sAnchor* [in]

A BSTR variable which contains two digit specifies which predefined merge rules for overlaying is in use. Default is "00". See remark for detail.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Anchor: A BSTR string contains two digit character. The first digit defines the anchor point of the target (to be merged with) page; the second digit defines the anchor point of the source page.

Anchor Point: There are exactly 9 anchor points defined on a page:

0: Page Center

1: Left-Top

2: Right-Top

3: Right-Bottom

4: Left-bottom

5: Center of top edge

6: Center of right edge

7: Center of bottom edge

8: Center of left edge

# IPDFCombine Interface

## 8. MergeRepeat

### Description

MergeRepeat property controls whether to merge pages with same page number only.

### Syntax

```
HRESULT get_MergeRepeat ( VARIANT_BOOL *pbMergeRepeat );
```

```
HRESULT put_MergeRepeat ( VARIANT_BOOL pbMergeRepeat );
```

### Parameters

*pbMergeRepeat* [out, retval]

*bMergeRepeat* [in]

A boolean variable specifies whether to merge pages with same page number only.

TRUE = The last page of the shorter document will be duplicated, and then merge with the pages of the longer document.

FALSE = Only merge pages with page number.

Default is FALSE.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## **xi. \_IPDFCombineEvents**

Through \_IPDFCombineEvents interface, application can receive events sent by COM.



## **\_IPDFCombineEvents Interface**

### **1. StartJob**

**Description**

Inform the application that file combination starts.

**Syntax**

```
void StartJob ( );
```

**Parameters**

None

**Return Values**

None

**Remarks**

Fired by [Concate](#) and [Overlay](#).

## **\_IPDFCombineEvents Interface**

### **2. StartDoc**

#### **Description**

Inform the application which PDF file is being processed.

#### **Syntax**

```
void StartPage ( BSTR sFileName );
```

#### **Parameters**

*sFileName*

[in] Full file path name specifies which PDF file is being processed.

#### **Return Values**

None

#### **Remarks**

None

## **\_IPDFCombineEvents Interface**

### **3. EndDoc**

#### **Description**

Inform the application that the specific file has been combined with the target PDF file.

#### **Syntax**

```
void EndDoc ( void );
```

#### **Parameters**

None

#### **Return Values**

None

#### **Remarks**

Corresponding file path has been obtained by previous [StartDoc](#).

## **\_IPDFCombineEvents Interface**

### **4. EndJob**

#### **Description**

Inform the application that the file combination has been finished.

#### **Syntax**

```
void EndDoc ( );
```

#### **Parameters**

None

#### **Return Values**

None

#### **Remarks**

Corresponding file path has been obtained by previous [StartDoc](#).

## \_IPDFCombineEvents Interface

### 5. Abort

**Description**

Inform the application that combination process has been terminated.

**Syntax**

```
void Abort ( );
```

**Parameters**

None

**Return Values**

None

**Remarks**

When combination process is terminated, COM will send this event, except that the process is cancel by the application through [StopCombining](#).

Caution: This event is unsupported right now.

## \_IPDFCombineEvents Interface

### 6. QueryContinue

#### Description

Query the user whether to Continue.

#### Syntax

```
VARIANT_BOOL QueryContinue ( BSTR sFileName );
```

#### Parameters

*sFileName*

[in] Full file path name specifies which PDF file is being processed.

#### Return Values

TURE

Skip current PDF file and continue the combination progress.

FALSE

Exit current file combination progress.

#### Remarks

If COM fails to open a PDF file (e.g. invalid password), it will send QueryPassword event three times to query the application for password. If the given password is still invalid after three times, COM will fire this event.

## **xii. \_IPDFQueryPasswordEvents**

If COM opens a PDF file with password protection, it will query the application for the password through this interface.

# **\_IPDFQueryPasswordEvents Interface**

## **1. QueryPassword**

### **Description**

Query the user for the password of the PDF file.

### **Syntax**

```
BSTR QueryPassword ( BSTR sFileName );
```

### **Parameters**

*sFileName*

[in] Full file path name specifies which PDF file is being processed.

### **Return Values**

Password of the PDF file. If NULL returned, COM will stop querying the password immediately and return fail.

### **Remarks**

If returned password is invalid, COM will fire this event three times.



## \_IPDFQueryPasswordEvents Interface

### 2. PasswordIncorrect

#### Description

Indicate the password for the specific file is incorrect.

#### Syntax

```
void PasswordIncorrect ( BSTR sFileName );
```

#### Parameters

*sFileName*

[in] Full path of the PDF file that is being processed.

#### Return Values

None

#### Remarks

None

### **xiii. IPDFPackage**

It provides method to package several PDF files into one PDF file.

# IPDFPackage Interface

## 1. AddField

### Description

Add field title of package.

### Syntax

```
HRESULT AddField ( PG_FieldTypeEnum eType, BSTR sName,  
VARIANT_BOOL bShow, long * index );
```

### Parameters

*eType*

[in] The added Field's type.

*sName*

[in] The added Field's name.

*bShow*

[in] Whether the added Field shows.

*index*

[out, retval] Return the field's index.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

The field of buildin can only be set field name, not field value, which will auto-generate according to package's files. And the custom field can be set both field name and value.

Definition of PG\_FieldTypeEnum:

```
enum {  
    PG_BuildInNameField           = 0,  
    PG_BuildInDescriptionField    = 1,  
    PG_BuildInSizeField           = 2,  
    PG_BuildInCreationDateField   = 3,  
    PG_BuildInModDateField        = 4,  
    PG_CustomTextField            = 5,  
    PG_CustomDateField            = 6,  
    PG_CustomNumberField          = 7  
} PG_FieldTypeEnum;
```

# IPDFPackage Interface

## 2. SetFieldValue

### Description

Set package's field value.

### Syntax

```
HRESULT SetFieldValue ( long fileIndex, long fieldIndex, VARIANT  
* value );
```

### Parameters

*fileIndex*

[in] File index.

*fieldIndex*

[in] Field index.

*value*

[in] The value.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

PG\_CustomTextField value is of type VT\_BSTR.

PG\_CustomDateField value is of type VT\_DATE.

PG\_CustomNumberField value is of type VT\_I4.

# IPDFPackage Interface

## 3. SetSortField

### Description

Specify by which field to sort files.

### Syntax

```
HRESULT SetSortField ( long fieldIndex, VARIANT_BOOL  
bAscending );
```

### Parameters

*fieldIndex*

[in] Field index.

*bAscending*

[in] Specifies how to sort the files.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFPackage Interface

## 4. SetCover

### Description

Set package's cover.

### Syntax

```
HRESULT SetCover ( BSTR file, BSTR password );
```

### Parameters

*file*

[in] File to be set as package cover.

*password*

[in] Password of the file.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

The cover file must be a PDF.

# IPDFPackage Interface

## 5. Pack

### Description

Do package operation.

### Syntax

```
HRESULT Pack ( BSTR dest, );
```

### Parameters

*dest*

[in] The destination file for package.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFPackage Interface

## 6. AddFile

### Description

Add package files.

### Syntax

```
HRESULT AddFile ( BSTR file, BSTR name, BSTR desc, long *  
index );
```

### Parameters

*file*

[in] File to be added.

*name*

[in] The name of the file. This value can be NULL. If not NULL, this value will be used for buildinName field value.

*desc*

[in] The description of the file. This value can be NULL. If not NULL, this value will be used for buildinDescription field value.

*index*

[out, retval] Return added file index.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Added file must be in PDF.



# IPDFPackage Interface

## 7. ClearFields

### Description

Clear the settings of fields.

### Syntax

```
HRESULT ClearFields ( void );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFPackage Interface

## 8. ClearFiles

### Description

Clear files that have been added.

### Syntax

```
HRESULT ClearFiles ( void );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

### III.PDFLibrarian

PDFLibrarian component object provides interfaces to [index](#) and [search](#) indexed PDF documents.

## **i. IPDFLibrarian**

IPDFLibrarian is the default sink interface of PDFLibrarian component object interface. It provides method to initialize PDFLibrarian component object and create index/search interfaces.

# IPDFLibrarian Interface

## 1. Initialize

### Description

Initialize the PDFIndex/PDFSearch component.

### Syntax

```
HRESULT Initialize ( BSTR sn, long reserved );
```

### Parameters

*sn*

[in] Serial number.

*reserved*

[in] Reserved for ZEON Corporation. Must be set to 0.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFLibrarian Interface

## 2. Uninitialize

### Description

Close the PDFIndex/PDFSearch component.

### Syntax

```
HRESULT Uninitialize ( );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

This method must be called before terminating the application.

# IPDFLibrarian Interface

## 3. CreateIndexInterface

### Description

Create IPDFIndex interface.

### Syntax

```
HRESULT CreateIndexInterface (LPDISPATCH *piIndex);
```

### Parameters

*piIndex*

[out, retval] A pointer to the returned IPDFIndex interface. NULL if create fails.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFLibrarian Interface

## 4. CreateSearchInterface

### Description

Create IPDFSearch interface.

### Syntax

```
HRESULT CreateSearchInterface (LPDISPATCH *piSearch);
```

### Parameters

*piSearch*

[out, retval] A pointer to the returned IPDFSearch interface. NULL if create fails.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None



## ii. IPDFIndex

It provides methods to index PDF documents. IPDFIndex interface must be created through [CreateIndexInterface](#) method.

# IPDFIndex Interface

## 1. indexTitle

### Description

indexTitle property controls title of the index.

### Syntax

```
HRESULT get_indexTitle ( BSTR *psIndexTitle );
```

```
HRESULT put_indexTitle ( BSTR sIndexTitle );
```

### Parameters

*psIndexTitle* [out, retval]

*sIndexTitle* [in]

A BSTR variable specifies the title of the index.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFIndex Interface

## 2. indexDescription

### Description

indexDescription property controls description of the index.

### Syntax

```
HRESULT get_indexDescription ( BSTR *psIndexDescription );
```

```
HRESULT put_indexDescription ( BSTR sIndexDescription );
```

### Parameters

*psIndexDescription* [out, retval]

*sIndexDescription* [in]

A BSTR variable specifies the description of the index.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IPDFIndex Interface

### 3. wordFinderVersion

#### Description

wordFinderVersion property controls the version of PDWordFinder.

#### Syntax

```
HRESULT get_wordFinderVersion ( long *pIWordFinderVersion );
```

```
HRESULT put_wordFinderVersion ( long IWordFinderVersion );
```

#### Parameters

*pIWordFinderVersion* [out, retval]

*IWordFinderVersion* [in]

A long variable specifies the version of PDWordFinder. Default is 0 which means no care.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

# IPDFIndex Interface

## 4. AddIncludeFile

### Description

Add a file or a folder.

### Syntax

```
HRESULT AddIncludeFile ( BSTR sFileName, VARIANT_BOOL  
bDirectory );
```

### Parameters

*sFileName*

[in] Specifies full path of the file or folder.

*bDirectory*

[in] Specifies that *sFileName* is path of a file or a folder.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFIndex Interface

## 5. AddExcludeFile

### Description

Exclude a file or a folder.

### Syntax

```
HRESULT AddExcludeFile ( BSTR sFileName, VARIANT_BOOL  
bDirectory );
```

### Parameters

*sFilename*

[in] Specifies full path of the file or folder.

*bDirectory*

[in] Specifies that *sFileName* is path of a file or a folder.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFIndex Interface

## 6. AddStopWord

### Description

Add a StopWord.

### Syntax

```
HRESULT AddStopWord ( BSTR sStopWord );
```

### Parameters

*sStopWord*

[in] Specifies the StopWord string.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

# IPDFIndex Interface

## 7. AddCustomField

### Description

Add a custom field.

### Syntax

```
HRESULT AddCustomField (ZPL_CustomFieldType eType, BSTR  
sFieldName );
```

### Parameters

*eType*

[in] Specifies the type of the customized field.

*sFieldName*

[in] Name of the customized field.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of ZPL\_CustomFieldType:

enum

{

    CFT\_CustomStringField = 0,

    CFT\_CustomIntField = 1,

    CFT\_CustomDateField = 2

}ZPL\_CustomFieldType



# IPDFIndex Interface

## 8. GetIncludeFileArray

### Description

Get the array of the files or folders included.

### Syntax

```
HRESULT GetIncludeFileArray ( VARIANT_BOOL bDirectory,  
VARIANT *paFileArray );
```

### Parameters

*bDirectory*

[in] Specifies the returned array is of files or folders.

*psFileArray*

[out, retval] A pointer to a SafeArray variable of type BSTR containing the list of the files or folders included.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IPDFIndex Interface

### 9. GetExcludeFileArray

#### Description

Get the array of the files or folders excluded.

#### Syntax

```
HRESULT GetExcludeFileArray ( VARIANT_BOOL bDirectory,  
VARIANT *paFileArray );
```

#### Parameters

*bDirectory*

[in] Specifies the returned array is of files or folders.

*psFileArray*

[out, retval] A pointer to a SafeArray variable of type BSTR containing the list of the files or folders excluded.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFIndex Interface

### 10. GetStopWordsArray

#### Description

Get the array of the stop words.

#### Syntax

```
HRESULT GetStopWordsArray ( VARIANT *paStopWordsArray );
```

#### Parameters

*paStopWordsArray*

[out, retval] A pointer to a SafeArray variable of type BSTR containing the list of the stop words.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFIndex Interface

### 11. GetCustomFieldArray

#### Description

Get the array of the custom fields.

#### Syntax

```
HRESULT GetCustomFieldArray ( ZPL_CustomFieldType eType,  
    VARIANT *paCustomFieldArray );
```

#### Parameters

*eType*

[in] Specifies the type of field to retrieve.

*psCustomFieldArray*

[out, retval] A pointer to a SafeArray variable of type BSTR containing the list of the customized fields.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

# IPDFIndex Interface

## 12. LoadIndex

### Description

Load an index file.

### Syntax

```
HRESULT LoadIndex ( BSTR sIndexPath, long IFlag );
```

### Parameters

*sIndexPath*

[in] Full path of the index file.

*IFlag*

[in] Specifies the level of information acquired.

0:All the information;

1:Only the index title;

2:Index title plus include/exclude files/folders.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Application must first load the index file, and use [GetIncludeFileArray](#), [GetExcludeFileArray](#) to get required information.

## IPDFIndex Interface

### 13. BuildIndex

#### Description

Build an index file.

#### Syntax

```
HRESULT BuildIndex ( BSTR sIndexFile );
```

#### Parameters

*sIndexFile*

[in] Full path of the index file.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFIndex Interface

### 14. RebuildIndex

#### Description

Rebuild an index file.

#### Syntax

```
HRESULT RebuildIndex ( BSTR sIndexFile );
```

#### Parameters

*sIndexFile*

[in] Full path of the index file.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

The difference between [BuildIndex](#) and [RebuildIndex](#) is:

[BuildIndex](#): Only changes from the last build are taken into account.

[RebuildIndex](#): Build all indexes.

## IPDFIndex Interface

### 15. PurgeIndex

#### Description

Delete space used by index.

#### Syntax

```
HRESULT PurgeIndex ( BSTR sIndexFile );
```

#### Parameters

*sIndexFile*

[in] Full path of the index file.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None



## IPDFIndex Interface

### 16. IsBuilding

#### Description

Check whether index building is in process.

#### Syntax

```
HRESULT IsBuilding ( VARIANT_BOOL *pbBuilding );
```

#### Parameters

*pbBuilding*

[out, retval] A pointer to a VARIANT\_BOOL indicates whether index building is in process.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDFIndex Interface

### 17. AbortBuilding

**Description**

Stop index building.

**Syntax**

```
HRESULT AbortBuilding ( );
```

**Parameters**

None

**Return Values**

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

**Remarks**

None

# IPDFIndex Interface

## 18. GetCatalogStatus

### Description

Get current status.

### Syntax

```
HRESULT GetCatalogStatus ( VARIANT *psFilePath, VARIANT *plPageCount, VARIANT *plPageNumber, ZPL_CatalogStatus *peStatus );
```

### Parameters

*psFilePath*

[out, retval] A pointer to a VARIANT variable of type BSTR indicates the full path of the PDF file being built.

*plPageCount*

[out, retval] A pointer to a VARIANT variable of type long indicates the page number of the PDF file being processed.

*plPageNumber*

[out, retval] A pointer to a VARIANT variable of type long indicates the number of page being processed.

*peStatus*

[out, retval] Return a pointer to a ZPL\_CatalogStatus structure that indicates the status.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of ZPL\_CatalogStatus

```
enum {  
    CS_CatalogIdle = 0,  
    CS_CatalogReadying = 1,  
    CS_CatalogSearchFile = 2,  
    CS_CatalogReadDocInfo = 3,  
    CS_CatalogHashing = 4,  
    CS_CatalogWriteZpi = 5,  
    CS_CatalogWriteUpdateFile = 6,  
    CS_CatalogWriteMetadataFile = 7,  
    CS_CatalogWriteInvf = 8,  
};
```

```
        CS_CatalogMergeInvf      = 9,  
        CS_CatalogStopping      = 10,  
        CS_CatalogCompleted     = 11  
    } ZPL_CatalogStatus;
```

### **iii. IPDFSearch**

It provides method to search PDF documents. IPDFSearch interface must be created through [CreateSearchInterface](#) method.

# IPDFSearch Interface

## 1. SetOption

### Description

Set options for searching.

### Syntax

```
HRESULT SetOption (ZPL_QueryType eType, VARIANT_BOOL  
bWholeWord, VARIANT_BOOL bCaseSensitive, VARIANT_BOOL  
bStemming, VARIANT_BOOL bQueryBookmark, VARIANT_BOOL  
bQueryComment );
```

### Parameters

*eType*

[in] Specifies the search type.

*bWholeWord*

[in] Specifies whether to match the whole word.

*bCaseSensitive*

[in] Specifies whether to match the word case-sensitively.

*bStemming*

[in] Specifies whether to include the etymon.

*bQueryBookmark*

[in] Specifies whether to search the bookmark.

*bQueryComment*

[in] Specifies whether to search the comment.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of ZPL\_QueryType:

```
enum {  
    SQT_ExactPhrase = 0,  
    SQT_AnyWords = 1,  
    SQT_AllWords = 2,  
    SQT_Boolean = 3  
} ZPL_QueryType;
```

# IPDFSearch Interface

## 2. AddCriteria

### Description

Add additional criteria.

### Syntax

```
HRESULT AddCriteria ( BSTR sKey, ZPL_MetaDataOP eOP,  
BSTR, sValue );
```

### Parameters

#### *sKey*

[in] Case-sensitively BSTR value specifies the name of the field, predefined or customized.

Predefined field:

"Author" <==> MetaData::author

"Title" <==> MetaData::title

"Subject" <==> MetaData::subject

"Keywords" <==> MetaData::keywords

"Creator" <==> MetaData::creator

"Producer" <==> MetaData::producer

"CreationDate" <==> MetaData::dateCreation

"ModDate" <==> MetaData::dateModified

#### *eOP*

[in] Specify the operator on the metadata.

string type supports:

include "="

exclude "!="

int and data type support:

less than "<"

equal "="

unequal "!="

greater than ">"

#### *sValue*

[in] Specify the value of the field.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

```
Definition of ZPL_MetaDataOP:  
enum {  
    OP_Less           = 0,  
    OP_Equal         = 1,  
    OP_Include        = 1,  
    OP_Unequal        = 2,  
    OP_Exclude        = 2,  
    OP_More           = 3  
} ZPL_MetaDataOP;
```



# IPDFSearch Interface

## 3. SearchIndex

### Description

Search the index file.

### Syntax

```
HRESULT SearchIndex ( BSTR sIndexFile, BSTR sPhrase );
```

### Parameters

*sIndexFile*

[in] Full path of the index file.

*sPhrase*

[in] The phrase to search for.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

FindWordInDoc will be fired during search. Also

FindWordInBookmark/FindWorkInComment will be fired if bookmark/comment was included.

# IPDFSearch Interface

## 4. AbortSearching

### Description

Abort searching.

### Syntax

```
HRESULT AbortSearching (VARIANT_BOOL bAbort);
```

### Parameters

*bAbort*

[in] Whether to abort searching.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

#### **iv. \_IPDFSearchEvents**

Events that will be fired during search.

## \_IPDFSearchEvents Interface

### 1. FindWordInDoc

#### Description

Inform the application that the word has been found in the PDF document.

#### Syntax

```
HRESULT FindWordInDoc ( BSTR sFileName, long IPageNo, long IWordNo, long IWordNum, VARIANT_BOOL bModified );
```

#### Parameters

*sFileName*

[in] Full path of the PDF file being searched.

*IPageNo*

[in] Zero-based number of the page being processed.

*IWordNo*

[in] Zero-based number of the word being processed.

*IWordNum*

[in] dscp

*bModified*

[in] Indicates that whether the PDF document has been modified since the last build of the index.

#### Return Values

VARIANT\_TRUE Continue searching;

VARIANT\_FALSE Stop searching.

#### Remarks

If the search result contains only file name, then *IPageNo*, *IWordNo* and *IWordNum* are all set to "-1".

## **\_IPDFSearchEvents Interface**

### **2. FindWordInBookmark**

#### **Description**

The word has been found in bookmarks.

#### **Syntax**

```
HRESULT FindWordInBookmark ( BSTR sFileName, VARIANT  
aPosition, VARIANT_BOOL bModified );
```

#### **Parameters**

*sFileName*

[in] Full path of the PDF document.

*sPosition*

[in] A SafeArray variable of type VT\_I4

*bModified*

[in] Indicates that whether the PDF document has been modified since the last build of the index.

#### **Return Values**

VARIANT\_TRUE Continue searching;

VARIANT\_FALSE Stop searching.

#### **Remarks**

None

## \_IPDFSearchEvents Interface

### 3. FindWordInComment

#### Description

The word has been found in comments.

#### Syntax

```
HRESULT FindWordInComment ( BSTR sFileName, long lPageNo,  
long lAnnotationNo, VARIANT_BOOL bModified );
```

#### Parameters

*sFileName*

[in] Full path of the PDF document.

*lPageNo*

[in] Zero-based number of the page.

*lAnnotationNo*

[in] Zero-based index of the annotation in the page.

*bModified*

[in] Indicates that whether the PDF document has been modified since the last build of the index.

#### Return Values

VARIANT\_TRUE Continue searching;

VARIANT\_FALSE Stop searching.

#### Remarks

None

## **\_IPDFSearchEvents Interface**

### **4. StartSearch**

#### **Description**

Search has been started.

#### **Syntax**

```
HRESULT StartSearch (VARIANT_BOOL bTrial);
```

#### **Parameters**

*bTrial*

[in] Whether it is trial version.

#### **Return Values**

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### **Remarks**

None

## **IV. PDF2Image**

PDF2Image component object provides interfaces to convert PDF files to image files.



## **i. IPDF2Image**

IPDF2Image is the default sink interface of PDF2Image component object. It provides methods to initialize PDF2Image component object and convert PDF files to image files.

# IPDF2Image Interface

## 1. Initialize

### Description

Initialize the PDF2Image component.

### Syntax

```
HRESULT Initialize ( BSTR sn, long reserved );
```

### Parameters

*sn*

[in] Serial number.

*reserved*

[in] Reserved for ZEON Corporation. Must be set to 0.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

PDF2Image must be initialized before invoking its method.

# IPDF2Image Interface

## 2. Uninitialize

### Description

Close the PDF2Image component.

### Syntax

```
HRESULT Uninitialize ( );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

This method must be called before terminating the application.

## IPDF2Image Interface

### 3. OpenFile

#### Description

Open a PDF file you want to convert to image file.

#### Syntax

```
HRESULT OpenFile ( VARIANT sFilePath, BSTR  
sOpenPassword );
```

#### Parameters

*sFilePath*

[in] Full path of the specific PDF file that you want to open.

*sOpenPassword*

[in] Password for opening the PDF file.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

# IPDF2Image Interface

## 4. CloseFile

### Description

Close the PDF file that have been opened.

### Syntax

```
HRESULT CloseFile ( );
```

### Parameters

None

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IPDF2Image Interface

### 5. GetPageCount

#### Description

Get page count of the PDF file that has been opened.

#### Syntax

```
HRESULT GetPageCount ( long *pINum );
```

#### Parameters

*pINum*

[out, retval] Receives page count.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

# IPDF2Image Interface

## 6. SetScale

### Description

Set the scale of Image file.

### Syntax

```
HRESULT SetScale ( float scale, long dpi);
```

### Parameters

*scale*

[in] The scale of the image file you want to set, default is 100.

*dpi*

[in] The dpi of the image file you want to set, default is 96.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

SetScale and SetSize are two different methods to set the size of the image. Invoke either one will overwrite another.

# IPDF2Image Interface

## 7. SetSize

### Description

Set the size of the Image file.

### Syntax

```
HRESULT SetSize ( long width, long height, VARIANT_BOOL  
bKeepRatio );
```

### Parameters

*width*

[in] Width of the image file you want to set.

*height*

[in] Height of the image file you want to set.

*bkeepRatio*

[in] Whether keep ratio when convert to image file. If it is FALSE, the image will fill the whole rectangle, and xscale and yscale will not consistent.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

SetScale and SetSize are two different methods to set the size of the image. Invoke either one will overwrite another.



# IPDF2Image Interface

## 8. PrintToBMP

### Description

Convert the PDF file to BMP file.

### Syntax

```
HRESULT PrintToBMP ( long pageno, BSTR imagefile, BPPEnum bitsPerPixel, long *pWidth, long *pHeight );
```

### Parameters

*pageno*

[in] Zero-based page number of the PDF file you want to print to bitmap file. The first page is 0.

*imagefile*

[in] Full path of the bitmap file.

*bitsPerPixel*

[in] Set the quality of the HBitmap, have five formats, such as 1,4,8,16,24, default is BPP\_24.

*pWidth*

[out, retval] Return the width of the BMP.

*pHeight*

[out, retval] Return the height of the BMP.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

Definition of BPPEnum:

```
enum {  
    BPP_1      = 1,  
    BPP_4      = 4,  
    BPP_8      = 8,  
    BPP_16     = 16,  
    BPP_24     = 24  
} BPPEnum;
```

Default is BPP\_24.

# IPDF2Image Interface

## 9. PrintToJPEG

### Description

Convert the PDF file to JPEG file.

### Syntax

```
HRESULT PrintToJPEG ( long pageno, BSTR imagefile, long quality, long *pWidth, long *pHeight );
```

### Parameters

*pageno*

[in] Zero-based page number of the PDF file you want to print to JPEG file. The first page is 0.

*imagefile*

[in] Full path of the JPEG file will be printed.

*quality*

[in] Quality of the JPEG file you want to set, it's value is between 1 – 100.

*pWidth*

[out, retval] Return the width of the JPEG.

*pHeight*

[out, retval] Return the height of the JPEG.

### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

### Remarks

None

## IPDF2Image Interface

### 10. PrintToJPEG2000

#### Description

Convert the PDF file to JPEG2000 file.

#### Syntax

```
HRESULT PrintToJPEG2000 ( long pageno, BSTR imagefile, long quality, long *pWidth, long *pHeight );
```

#### Parameters

*pageno*

[in] Zero-based page number of the PDF file you want to print to JPEG2000 file. The first page is 0.

*imagefile*

[in] Full path of the JPEG2000 file.

*quality*

[in] Quality of the JPEG2000 file you want to set, It's value is between 1-100.

*pWidth*

[out, retval] Return the width of the JPEG2000.

*pHeight*

[out, retval] Return the Height of the JPEG2000.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

# IPDF2Image Interface

## 11. PrintToTIFF

### Description

Convert PDF file to TIFF file.

### Syntax

```
HRESULT PrintToTIFF ( long pageno, BSTR imgfile, BPPEnum  
bitsPerPixel, TIFFCompressEnum comp_mode, long flag, long  
*pWidth, long *pHeight );
```

### Parameters

*pageno*

[in] Zero-based page number of the PDF file you want to print to TIFF file. The first page is 0.

*imgfile*

[in] Full path of the TIFF file will be printed.

*bitsPerPixel*

[in] The dpi of the TIFF file, support the format of 1,4,8 and 24.

*comp\_mode*

[in] The compress mode that will be used when convert to TIFF file.

*flag*

[in] Reserved.

*pWidth*

[out, retval] Return the width of the TIFF file.

*pHeight*

[out, retval] Return the height of the TIFF file.

### Return Values

None

### Remarks

If it is color palette format (1,4or 8 bits), image cannot be too big; namely scale and dpi cannot be set too large.

Definition of TIFFCompressEnum:

```
enum {  
    TIFF_NO_COMPRESS    = 1,  
    TIFF_CCITT_G3       = 3,  
    TIFF_CCITT_G4       = 4,  
    TIFF_LZW            = 5,  
    TIFF_JPEG_24B      = 7,  
};
```

```
        TIFF_ZIP                = 8  
    } TIFFCompressEnum;
```

Default is TIFF\_CCITT\_G3.

## IPDF2Image Interface

### 12. PrintToMultiTIFF

#### Description

Convert PDF file to MultiTIFF file.

#### Syntax

```
HRESULT PrintToMultiTIFF ( BSTR pageRange, BSTR  
imgfile, BPPEnum bitsPerPixel, TIFFCompressEnum comp_mode,  
long flag, long *pWidth, long *pHeight );
```

#### Parameters

*pageRange*

[in] Page range of the PDF file you want to print to MultiTIFF file, the same as the pagerange of the watermark and print, (for example: 0, 3, 5,-7), when the *pageRange* is "", all pages will be convert the MultiTIFF file, default is "".

*imgfile*

[in] Full path of the MultiTIFF file will be printed.

*bitsPerPixe*

[in] The bpi of the MultiTIFF file, support the format of 1,4,8 and 24.

*comp\_mode*

[in] The compress mode that will be used when convert to MultiTIFF file.

*flag*

[in] Reserved.

*pWidth*

[out, retval] Width of the MultiTIFF file.

*pHeight*

[out, retval] Height of the MultiTIFF file.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

The Image cannot be too big; namely the scale and dpi cannot be set too large.

## IPDF2Image Interface

### 13. PrintToGIF

#### Description

Convert PDF file to 8 bits GIF file.

#### Syntax

```
HRESULT PrintToGIF ( long pageno, BSTR imgfile, long *pWidth,  
long *pHeight );
```

#### Parameters

*pageno*

[in] Zero-based page number of the PDF file you want to print to GIF file. The first page is 0.

*imgfile*

[in] Full path of the image file will be printed.

*pWidth*

[out, retval] Return the width of the GIF file.

*pHeight*

[out, retval] Return the height of the GIF file.

#### Return Values

None

#### Remarks

None

## IPDF2Image Interface

### 14. PrintToHBitmap

#### Description

Convert PDF file to HBitmap file.

#### Syntax

```
HRESULT PrintToHBitmap ( long pageno, BPPEnum bitsPerPixel,  
long *pHBitmap );
```

#### Parameters

*pageno*

[in] Zero-based page number of the PDF file you want to convert it to HBitmap file. The first page is 0.

*bitsPerPixel*

[in] Set the quality of the HBitmap, have five formats, such as 1,4,8,16,24.

*pHBitmap*

[out, retval] return HBITMAP.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

Definition of BPPEnum:

```
enum {  
    BPP_1      = 1,  
    BPP_4      = 4,  
    BPP_8      = 8,  
    BPP_16     = 16,  
    BPP_24     = 24  
} BPPEnum;
```

Default is BPP\_24.



## IPDF2Image Interface

### 15. removeMargin

#### Description

removeMargin property controls whether to remove the margin of the PDF file when converting it to image file.

#### Syntax

```
HRESULT get_removeMargin ( VARIANT_BOOL *  
pbRemoveMargin );
```

```
HRESULT set_removeMargin ( VARIANT_BOOL  
bRemoveMargin );
```

#### Parameters

*pbRemoveMargin* [out, retval]

*bRemoveMargin* [in]

A boolean variable specifies whether to remove the margin of the PDF file when convert it to image file.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None

## IPDF2Image Interface

### 16. rotation

#### Description

rotation property controls the rotation of image file relative to the PDF file.

#### Syntax

```
HRESULT get_rotation ( RotationEnum *peRotation );
```

```
HRESULT put_rotation ( RotationEnum eRotation );
```

#### Parameters

*peRotation* [out, retval]

*eRotation* [in]

A RotationEnum variable specifies rotation angle of the image file relative to the PDF file. Default is Rotate\_0.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

Definition of RotationEnum:

```
enum {  
    Rotate_0           = 0,  
    Rotate_90          = 90,  
    Rotate_180         = 180,  
    Rotate_270         = 270,  
    Rotate_Neg_90      = -90,  
    Rotate_Neg_180     = -180,  
    Rotate_Neg_270     = -270  
} RotationEnum;
```

## IPDF2Image Interface

### 17. content

#### Description

content property controls what content of the PDF file will be printed to image file.

#### Syntax

```
HRESULT get_content (PrintContentEnum *pPrintContent );
```

```
HRESULT get_content (PrintContentEnum PrintContent );
```

#### Parameters

*pPrintContent* [out, retval]  
*PrintContent* [in]

A PrintContentEnum variable specifies which contents of the PDF file will be printed to image file. Default is PC\_ContentAndForm.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

Definition of PrintContentEnum:

```
enum {  
    PC_ContentAndForm    = 0,  
    PC_ContentOnly      = 1,  
    PC_FormOnly         = 2  
} PrintContentEnum;
```

## IPDF2Image Interface

### 18. SetBitsPerPixel

#### Description

Set bits value per pixel.

#### Syntax

```
HRESULT SetBitsPerPixel( BPPEnum bitsPerPixel );
```

#### Parameters

*bitsPerPixel* [in]

Bits value of per pixel.

#### Return Values

S\_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

#### Remarks

None.

## IPDF2Image Interface

### 19. SetQuality

#### Description

Set image quality.

#### Syntax

```
HRESULT SetQuality( long IQuality );
```

#### Parameters

*IQuality* [in]  
Quality value of image.

#### Return Values

S\_OK  
The method succeeded.  
Others  
Failed, return error information through IErrorInfo Interface.

#### Remarks

None.

## **ii. \_IPDFQueryPasswordEvents**

Events that will be fired when opening a PDF file with password protection.

## **\_IPDFQueryPasswordEvents Interface**

### **1. QueryPassword**

#### **Description**

Query the user for the password of the PDF file.

#### **Syntax**

```
BSTR QueryPassword ( BSTR sFileName );
```

#### **Parameters**

*sFileName*

[in] Full file path name specifies which PDF file is being processed.

#### **Return Values**

Password of the PDF file. If NULL returned, COM will stop querying the password immediately and return fail.

#### **Remarks**

If returned password is invalid, COM will fire this event three times.

## **\_IPDFQueryPasswordEvents Interface**

### **2. PasswordIncorrect**

#### **Description**

Indicate the password for the specific file is incorrect.

#### **Syntax**

```
void PasswordIncorrect ( BSTR sFileName );
```

#### **Parameters**

*sFileName*

[in] Full path of the PDF file that is being processed.

#### **Return Values**

None

#### **Remarks**

None



## • Error Code

Here is a list of error codes which may be returned by PDF CMD. To obtain error please see [Error handling](#). Note: both the error and description can be retrieved from IErrorInfo interface.

Error Code	Description
0x800403E9	"Happend pdfcore error."
0x800403EA	"One or more arguments are invalid."
0x800403EB	"Failed to load pdfcore."
0x800403EC	"No page for edit."
0x800403ED	"No pdf document is opened."
0x800403EE	"Failed to open pdf document."
0x800407D3	"File type can't be converted to pdf."
0x800407D4	"Failed to print file to pdf."
0x800407D5	"PDF Driver isn't installed."
0x800407D6	"It's timeout to convert file."
0x800407D7	"Invalid password for opening file."
0x800407D8	"The Document is Password Protected."
0x80040BB9	"No files for combine."
0x80040BBA	"Invalid PDF target document."
0x80040FA1	"Failed to add invalid field."
0x80040FA2	"Failed to add invalid field data."
0x80040FA3	"File index is invalid or doesn't exist."
0x80040FA4	"Field index is invalid or doesn't exist."
0x80040FA5	"PDF file has not pages."
0x80040FA6	"No files for package."
0x80040FA7	"Invalid file for package."
0x80041389	"PDF file has certificate."
0x8004138A	"Invalid password for opening pdf file."
0x80041771	"Too short buffer size for value."

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