



PDF CMD SDK

Version: PDF Server 9

Zeon Corporation
2008

<http://www.pdfwizard.com>
<http://www.zeon.com.tw>



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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

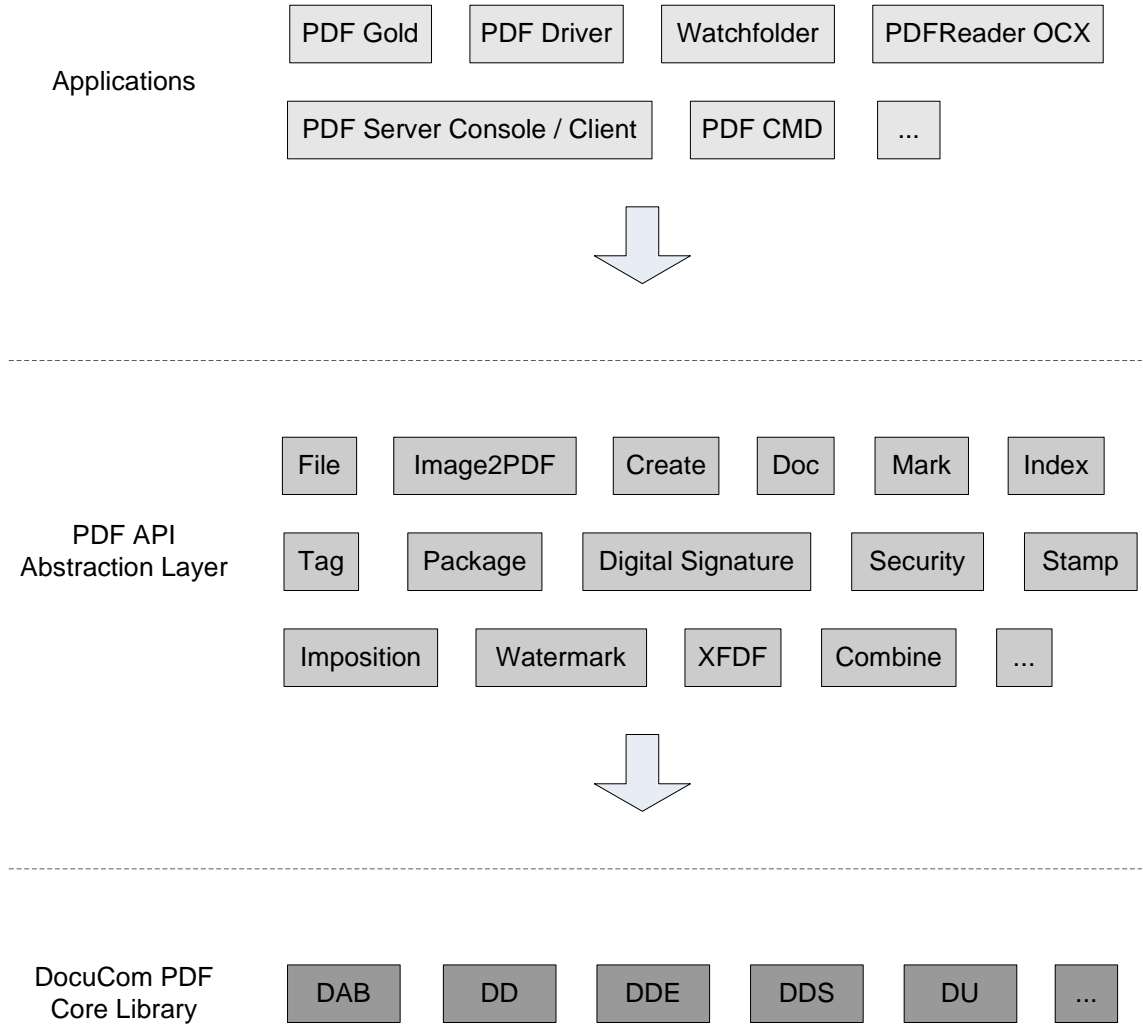
PDF documents.

All the DocuCom series products including the PDF Gold, PDF Driver, 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

Diagram of system architecture



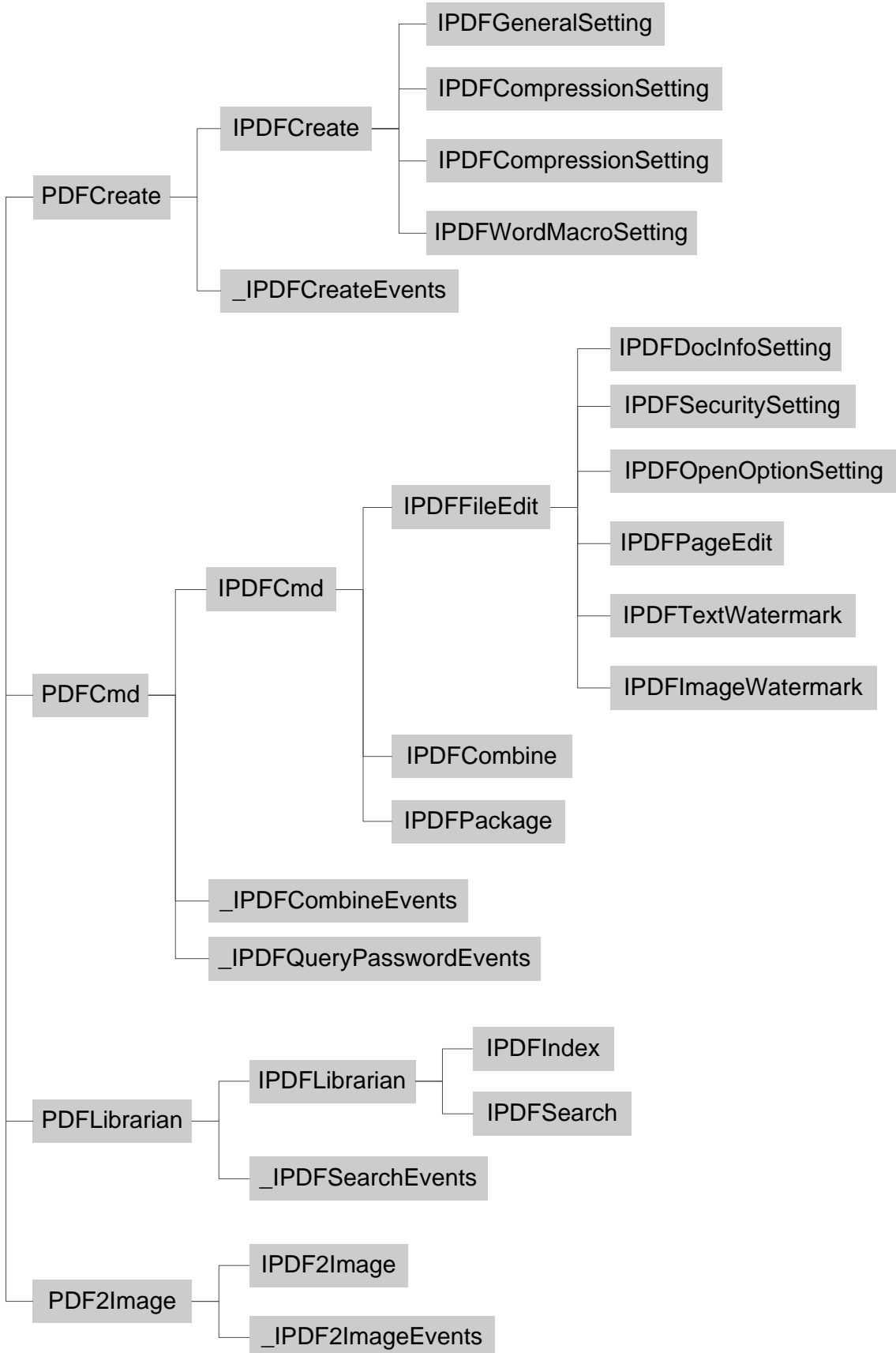
On the ground, there is Zeon’s elite DocuCom PDF Core Library. Provides complete PDF specifications support via industry standard interface syntax.

Then there is a middle PDF API abstraction layer. By offering application friendly format APIs, the middle layer greatly simplifies the task of PDF document processing.

And finally we have the application layer, including PDF CMD of course. Essentially, PDF CMD is the COM interface wrapper of the underlay 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 PDF CMD COM interfaces are 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 your 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 control through [IPDFSecuritySetting](#) interface. Basic procedure includes create [IPDFEditEdit](#) interface, open target PDF file, and retrieve [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. Do 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. Once a return value indicates an error occurred, application could use GetErrorInfo API to retrieve the associated IErrorInfo object which contains detailed information of the last error.

For error handling other than C++ environment, please refer to manual of the specific 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 “DocuCom 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 in 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 ubiquitous 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 includeing [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](#), and [IPDFFontEmbedSetting](#) 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.

sSecurityIniFilePath

[in] Security ini setting file path.

sWatermarkIniFilePath

[in] Watermark ini setting file path.

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. 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

15. 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.

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. IPDFGeneralSetting

This interface provides methods to get or set general property related to file conversion. IPDFGeneralSetting interface should 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 lScale );
```

Parameters

pScale [out, retval]

lScale [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_PDFA = -1
} 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



iv. **IPDFCompressionSetting**

This interface provides methods to get or set properties related to compression settings while converting files. IPDFCompressionSetting interface should 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  
*pAutoCompressionRate );
```

```
HRESULT put_AutoCompressionRate ( long  
AutoCompressionRate );
```

Parameters

pAutoCompressionRate [out, retval]

AutoCompressionRate [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. ReSampleMono

Description

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

Syntax

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

```
HRESULT put_ReSampleMono ( 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



v. IPDFFontEmbedSetting

This interface provides methods to get or set properties related to font embed settings while converting files. IPDFFontEmbedSetting interface should 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 maximum threshold for only embedding 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 AlwaysEmbedCount );
```

Parameters

pAlwaysEmbedCount [out, retval]

AlwaysEmbedCount [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 *pNeverEmbedCount );
```

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

Parameters

pNeverEmbedCount [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



vi. IWordMacroSetting

This interface provides methods to get or set properties related to WordMacro settings while converting Microsoft Word files. IWordMacroSetting interface should 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



II. PDFCmd

PDFCmd component object provides interface to modify PDF document 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. 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 should 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 should release the interface after using it.



IPDFCmd Interface

5. CreatePackageInterface

Description

Create a IPDFCombine interface.

Syntax

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

Parameters

piPackage

[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 should release the interface after using it.



IPDFCmd Interface

6. Compatible

Description

Compatible property controls PDF specification versions to be compatible of the modified 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

See definition of [CompatibleEnum](#).



ii. IPDFFileEdit

IPDFFileEdit is the main interface for editing PDF document. Through 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 *pPageNum );
```

Parameters

pPageNum

[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 a 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 should 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 a 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 should release the interface after using it.



IPDFFileEdit Interface

9. CreateImageWatermark

Description

Create a 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 should 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 should 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 should 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 should 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 should 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 number 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 the 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 a 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 a 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 *psIniPath );
```

Parameters

psIniPath

[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

Provide methods to get or set security property of PDF files. IPDFSecuritySetting interface should 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

None



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

None



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

canPrint 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 accessed for 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
} 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 to 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 for get or set open option of the PDF file. IPDFOpenOptionSetting interface should 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 open the PDF file.

Syntax

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

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

Parameters

peInitialPage [out, retval]

eInitialPage [in]

A long variable specifies which page to display when open the PDF file. 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
} 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
} 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]

eHideToolbar [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

Provide methods for general operation of a single page. Application should create IPDFPageEdit interface through [CreatePageEditInterface](#) method and release it 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

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 another 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.



vii. **IPDFWatermarkInfo**

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



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 leftside 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 topside 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. Clearence

Description

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

Syntax

```
HRESULT get_Clearence ( double *pdClearence );
```

```
HRESULT put_Clearence ( double dClearence );
```

Parameters

pdClearence [out, retval]

dClearence [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

pdClearance [out, retval]

dClearance [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 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 showed 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 showed 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 will have 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**

Provide methods for editing settings of text watermark. IPDFTextWatermark is derived from [IPDFWatermarkInfo](#) interface and should 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

TextFont 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

Provide methods to get or set properties of image or PDF watermark.
IPDFImageWatermark is derived from [IPDFWatermarkInfo](#) interface and should be create through [CreateImageWatarmark](#) method.



IPDFImageWatermark Interface

1. filename

Description

filename property controls the full path of the file containing contents 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. PageIdentifier

Description

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

Syntax

```
HRESULT get_PageIdentifier ( long *pPageIdentifier );
```

```
HRESULT put_PageIdentifier ( long PageIdentifier );
```

Parameters

pPageIdentifier [out, retval]

PageIdentifier [in]

A long variable specifies the 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 mared 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 mared area as watermark only.

TRUE = Only use the mared 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

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



IPDFCombine Interface

1. AddFile

Description

Add the specific file into the list of the files that you want 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 the PDF file is added is invalid, [QueryPassword](#) and [QueryContinue](#) are also fired.



IPDFCombine Interface

3. Overlay

Description

Overlay several 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 be called if needed. Four events are fired during combination: [StartJob](#), [StartDoc](#), [EndDoc](#), and [EndJob](#). If the password input when the PDF file is added is invalid, [QueryPassword](#) and [QueryContinue](#) are also fired.



IPDFCombine Interface

4. IsCombining

Description

Whether another combination is in process.

Syntax

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

Parameters

pIsCombining

[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 use of [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 is in use.

Syntax

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

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

Parameters

psAnchor [out, retval]

sAnchor [in]

A BSTR variable specifies which predefined merge rules for overlaying is in use. Default is "00".

Return Values

S_OK

The method succeeded.

Others

Failed, return error information through IErrorInfo Interface.

Remarks

For more information, please see "PDF Driver SDK" as a reference.



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 that 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 into 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, such as 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, it will query the application for the password through this interface.



_IPDFQueryPasswordEvents Interface

1. QueryPassword

Description

Query the user for 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

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

Provide 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 be set filed value, that field value will auto generate according to package's files. And the field of custom 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

Specifies by which field to sort the 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

Cover file must be PDF file.



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 the `buildinName` field value.

desc

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



IPDFPackage Interface

7. ClearFields

Description

Clear fields setting.

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. 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

Provides methods to index PDF documents. IPDFIndex interface should be create 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 customized 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 customized 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 a 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 should firstly load the index file, and use [GetIncludeFileArray](#), [GetExcludeFileArray](#) to get required information.



IPDFIndex Interface

13. BuildIndex

Description

Build a 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 a 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 that last build are taken into account.

[RebuildIndex](#): Build all the index.



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
 *pPageCount, VARIANT *pPageNumber, 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.

pPageCount

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

pPageNumber

[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

Provides method to search PDF documents. IPDFSearch interface should be create 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. 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 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 one of them will overwrite another setting.



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 one of them will overwrite another setting.



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] Page no. of the PDF file you want to print to bitmap file.

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

Covert the PDF file to JPEG file.

Syntax

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

Parameters

pageno

[in] Page no. of the PDF file you want to print to JPEG file.

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

Covert the PDF file to JPEG2000 file.

Syntax

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

Parameters

pageno

[in] Page no. of the PDF file you want to print to JPEG2000 file.
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] Page no. of the PDF file you want to print to TIFF file.

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 is could not be too big , namely scale and dpi could not 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.

bitsPerPixel

[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 is could not be too big, namely the scale and dpi could not 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] Page no. of the PDF file you want to print to GIF file.

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] Page no. of the PDF file you want to convert it to HBitmap file.

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 convert 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 compare 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 compare with 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 propt controls what content of the PDF file will be print 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;
```



ii. **_IPDF2ImageEvents**

Events that will be fired when opening a PDF file with password.



_IPDF2ImageEvents Interface

1. QueryPassword

Description

Query the user for 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.



_IPDF2ImageEvents Interface

2. PasswordIncorrect

Description

Syntax

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

Parameters

sFileName

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

Return Values

None

Remarks

None



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