



Software License Agreement

DOCX to PDF Converter for .NET Core - windows (x64)

and

DOCX to PDF Converter for .NET Framework

Version 14

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Getting Started

This chapter describes the contents of the software distribution ZIP file, and provides a step by step process of incorporating the TER routine into your application. To begin:

1. Add the reference for `dps.dll` in your project.

Net Core: For the .NET core product, create a project reference for the included product package. The package name is found as `rps.14.n.n.n.nupkg`. The 'n.n.n' stands for the product minor release number. This is how your project file would appear:

```
<PackageReference Include="dps" Version="14.0.0.0"/>
```

Also, please ensure that:

a) the target framework for your project file is set to `net6.0-windows`. Example:

```
<TargetFramework>net6.0-windows</TargetFramework>
```

b) the platform target should be set to `x64`. Example:

```
<PlatformTarget>x64</PlatformTarget>
```

2. Add the 'using' or 'Import' namespace statement for the project dll, example:

```
using SubSystems.DP
```

or

```
Import SubSystems.DP
```

In This Chapter

[Files](#)

[License Key](#)

[Sample Conversion Code](#)



Files

The package contains the DPN.DLL, TESN31.DLL, and pdn19.DLL files necessary to incorporate this product into your application.

The package also includes a set of files to construct a demo program. The demo program shows by example the process of linking the DLL to your program.

DLL Demo Files:

The following demo files are included in the c_demo.zip file.

demo.cs	Source code for the demo program
demo.exe	Executable demo program
demo.csproj	The project file to compile the demo.
AssemblyInfo.cs	Assembly information file

Visual Basic Interface and Demo Files:

Form1.vb	vb source file
dmo_vbn.vbproject	The project file for the visual basic demo program.
AssemblyInfo.vb	Assembly information file for the demo program.



License Key

Your License Key and License number are e-mailed to you after your order is processed. You would set the license information using the DpsSetLicenseInfo static function. This

should be preferably done before creating the Dpn object to avoid pop-up nag screens.
int DpsSetLicenseInfo(String LicenseKey, String LicenseNumber, String CompanyName);

LicenseKey: Your license key is available in the product delivery email sent to you upon the purchase of the product. It consists of a string in the form of "xxxxx-yyyyy-zzzzz".

LicenseNumber: Your license number is also available in the product delivery email. The license number string starts with a "srab" or "smo" prefix.

CompanyName: Your company name as specified in your order.

Return Value: This method returns 0 when successful. A non-zero return value indicates an error condition. Here are the possible return values:

- 0 License application successful.
- 1 Invalid License Key.
- 2 Invalid License Number.
- 3 Ran out of available licenses. Please consider purchasing additional licenses.

Example:

```
result=Dpn.DpsSetLicenseInfo("xxxxx-yyyyy-zzzzz","srabnnnnn-n","Your Company Name")
```

Replace the 'xxxxx-yyyyy-zzzzz' by your license key, replace "srabnnnnn-n" with your license number, and "Your Company Name" with your company name as specified in your order.

Note: *DpsSetLicenseInfo* method should be called only once at the beginning of your application. Calling this method for each conversion would degrade the conversion performance.



Sample Conversion Code

.NET Core: Include the dps.14.n.n.n.nupkg nuget package in your project. This is how your project file entry would appear:

```
<PackageReference Include="dps" Version="14.0.0.0"/>
```

This package is included in the distribution zip folder.

.NET Framework: Please ensure that DPN.DLL, TESN31.DLL, and PDN18.DLL files are available in the project directory. Set the reference for DPN.DLL in your project. The TESN31.DLL and PDN18.DLL are referenced indirectly by RPN.DLL.

Now set the namespace for the product:

```
using SubSystems.DP;           // C# example
Imports SubSystems.DP         ' VB Example
```

Now set the product license key and create an DPN type object:

```
Dpn.DpsSetLicenseInfo("xxxx-yyy-zzzz","srabnnnn-n","Your Compan Name")
```

```
Dpn dp = new Dpn() // C# example
dim dp as Dpn      ' VB example
```

```
dp.InWebServer = true; // set to true when hosting the
                       // converter in an ASP.NET app
```

Now use one of the following calls to convert from DOCX to PDF formats:

1. Convert an DOCX file to a PDF file.

```
dp.DpsConvertFile("test.docx","test.pdf")
```

2. Convert an DOCX byte array to a PDF string

```
Dim InData() As Byte
Dim OutData As String
```

```
InData = dp.DpsFileToBytes("test.docx")
```

```
If (InData.Length > 0) Then
    OutData = dp.DpsConvertBuffer(InData)
    If (OutData.Length > 0) Then
        ' write the pdf string to the output file
        result = dp.DpsWriteToFile("test.pdf", OutData)
    End If
End If
```



Control Methods

These methods allow you to convert from DOCX to PDF format. Please set the namespace for the Dpn class before using these methods:

```
using SubSystems.DP;           // C# example
Imports SubSystems.DP         ' VB Example
```

In This Chapter

- [DpsConvertBuffer](#)
- [DpsConvertFile](#)
- [DpsFileToBytes](#)
- [DpsGetLastMessage](#)
- [DpsResetLastMessage](#)
- [DpsSetFlags](#)
- [DpsStrToBytes](#)
- [DpsWriteToFile](#)



DpsConvertBuffer

Convert DOCX byte array to a PDF string.

String DpsConvertBuffer(InBytes)

String InBytes; // Input byte array containing DOCX document.

Return value: This function returns a string containing the converted documented.

This pdf string can be written to a disk file by using the DpsWriteToFile method.

Also, you can extract the byte array from this string by using the DpsStrToBytes method.

A null return values indicates an error.

Examples:

Convert an DOCX byte array to a PDF string

```
Dim InData() As Byte
Dim OutData As String

InData = dp.DpsFileToBytes("test.docx")

If (InData.Length > 0) Then
```

```
OutData = dp.DpsConvertBuffer(InData)
If (OutData.Length > 0) Then
    ' write the pdf string to the output file
    result = dp.DpsWriteToFile("test.pdf", OutData)
End If
End If
```



DpsConvertFile

Convert DOCX to PDF using disk files.

```
bool DpsConvertFile(InFile, OutFile)
```

```
string InFile;           // Input file containing RTF document
```

```
string OutFile;         // Output files, contains the converted document
```

Return value: This function returns TRUE when successful.

Examples:

Convert an DOCX file to a PDF file.

```
rp.DpsConvertFile("test.docx", "test.pdf")
```



DpsFileToBytes

Read a docx file into a byte array.

```
byte[] DpsFileToBytes(DocxFile)
```

```
String DocxFile;       // Input docx file name.
```

Return value: This function returns a byte array from the given file. This method can be used to obtain the byte array to supply to the DpsConvertBuffer method.

A null return values indicates an error.

```

Dim InData() As Byte
Dim OutData As String

InData = dp.DpsFileToBytes("test.docx")

If (InData.Length > 0) Then
    OutData = dp.DpsConvertBuffer(InData)
    If (OutData.Length > 0) Then
        ' write the pdf string to the output file
        result = dp.DpsWriteToFile("test.pdf", OutData)
    End If
End If

```



DpsGetLastMessage

Get the last message.

```
int DpsGetLastMessage(DpsMessage, DebugMessage);
```

```
string DpsMessage;           // Returns the default user message text in English
```

```
string DebugMsg;            // Returns any debug message associated with the last
                             // message. The debug message need not be displayed to
                             // the user.
```

Return Value: This function returns the last message generated by the editor. This value is valid only if saving of the messages is enabled by setting the RPFLAG_RETURN_MSG_ID flag. This flag is set using the DpsSetFlags method.



DpsResetLastMessage

Reset the last editor message.

```
bool DpsResetLastMessage()
```

Description: This function can be called before calling any other function to reset the last error message.

Return Value: The function returns TRUE when successful.

See Also

[DpsGetLastMessage](#)

[DpsSetFlags](#)



DpsSetFlags

Set certain flags or retrieve the values of the flags.

```
int DpsSetFlags(set, flags)
```

```
bool set; // TRUE to set the given flags, FALSE to reset the given flags
```

```
int flags; // Flags (bits) to set or reset. Currently, the following flag values are available:
```

RPFLAG_RETURN_MSG_ID	Do not display the error messages. Save the error code to be later retrieved using the DpsGetLastMessage function.
----------------------	--

Return value: This function returns the new value of all the flags. Call this function with the 'flags' parameter set to zero to retrieve flag values without modifying it.



DpsStrToBytes

Convert a pdf string to a byte array.

```
byte[] DpsStrToBytes(PdfString)
```

```
String PdfString; // Input string containing PDF text.
```

Return value: This function returns a byte array from the given string. This is a preferred method of converting a pdf string to a byte array because it returns the raw bytes without employing an encoding method.

A null return values indicates an error.

Example:

```
Response.Clear();
```

```

Response.Charset = "";
Response.ContentType = "application/pdf";

string strFileName = "test" + ".pdf";
Response.AddHeader("Content-Disposition",
                  "inline;filename=" + strFileName);

Dpn dp = new Dpn();
dp.InWebServer=true;

byte[] DocxBytes = dp.DpsFileToBytes("test.docx")

String pdfString = dp.DpsConvertBuffer(DocxBytes);

Response.BinaryWrite(dp.DpsStrToBytes(pdfString));

Response.Flush();
Response.Close();
Response.End();

```



DpsWriteToFile

Write a pdf string to a disk file.

```
bool DpsWriteToFile(FileName, PdfString)
```

```
string FileName;           // Output file.
```

```
string PdfString;         // Pdf string to be written to the disk file
```

Return value: This function returns TRUE when successful.



Control Properties

The control properties can be before the conversion to affect the pdf output. The control supports the following properties:

InWebServer

This property should be set to True when this control is used in a web server. When this property is set to True, the control suppress the display of any dialog and message boxes.

Author

Set the author name for the PDF document.

Bookmark

Set to true to convert the docx table-of-content to PDF bookmark. The default value is true.

CreDate

Set the document creation date. The date is specified in a text string.

Hyperlink

Set to true to translate docx hyperlink fields to pdf hyperlinks. The default value is true.

Keywords

Set the keywords for the PDF document.

LicenseKey

Set the product license key for the product. *Your license key is e-mailed to you after your order is processed.*

ModDate

Set the document modification date. The date is specified in a text string.

Producer

Set the producer description for the PDF document.

Subject

Set the subject description for the PDF document.

Title

Set the title for the PDF document

CompressText

Set to true to compress the text stream in the PDF output.

PermFlags

Use this flag to specify the permissions granted when the PDF document is being viewed or manipulated without using the owner password. You can use one or more of the following flags using the OR operator:

pc.PERM_PRINT Allow printing operation

pc.PERM_COPY Allow copying operation

pc.PERM_MOD Allow document modification

OwnerPassword

Optional document owner password.

When either an owner or a user password is specified, the PDF document is written out using Adobe standard encryption mechanism.

An owner password in the PDF document requires a PDF editor to prompt the user for the owner password and allow PDF modification only when the supplied owner password matches the encrypted owner password found in the file.

UserPassword

Optional user password

When either an owner or a user password is specified, the PDF document is written out using Adobe standard encryption mechanism.

A user password in the PDF document requires a PDF viewer to prompt the user for the user password and allow PDF display only when the supplied user password matches the encrypted user password (or owner password) found in the file.

EmbedFonts

Normally the converter only embeds non-standard fonts in the PDF file. This flag would instruct the converter to embed all fonts.

ExactTextPlacement

Set to True to instruct the converter to emit character width for every character thus providing for precise text layout. This option is useful when converting a file containing small fonts.

RC4_128

Set to true to enable RC4 128 bit security when a password is specified.

AES_128

Set to true to enable AES 128 bit security when a password is specified.

Do not update the table-of-content. Use the original table-of-content.

PictQuality

Set the picture quality from 1 to 5, where 1=lowest, 5=highest, 3=default.

UseOrigJpg

Insert the original jpeg data into the generated pdf file.

TaggedPdf

Generate tagged pdf file.

PdfA

Generate PDF-A compliant document.

PdfA1b

Generate PDF-A/1b compliant document.