



Software License Agreement

RTF to PDF Converter

For Win32/Win64

Vesion 19

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Getting Started

This chapter describes the contents of the software diskettes and provides a step by step process of incorporating RTF to PDF Converter into your application.

In This Chapter

[Files](#)

[License Key](#)

[Incorporating the DLL into Your Application](#)

[Sample Conversion Code](#)



Files

The package contains the DLL and header files. 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.C Source code for the demo program

DEMO.H Include file for the demo program

DEMO.RC	Resource source file for the demo program
DEMO.DEF	Definition file for linking the demo program
DEMO.EXE	Executable demo program
DEMO_DLG.H	Dialog Identifiers for the demo program
DEMO_DLG.DLG	Dialog templates for the demo program
DEMO_DLG.RES	Compiled dialogs for the demo program
RPS.H	The <i>include</i> file to include into a C/C++ application module that calls the Rps routine. It contains the constant definitions and the prototypes for the API functions.
RPS32.DLL	The DLL file and other supporting DLLS

Visual Basic Interface and Demo Files:

RPS.BAS	Function declaration file.
DMO_VB.FRM	Demo form file.
DMO_VB.BAS	Demo variable declaration file.
DMO_VB.VPB	Demo project file.



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 RpsSetLicenseInfo static function. This should be preferably done before creating the converter session to avoid pop-up nag screens.

```
int RpsSetLicenseInfo(LPBYTE LicenseKey, LPBYTE LicenseNumber, LPBYTE
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=RpsSetLicenseInfo("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: *RpsSetLicenseInfo* method should be called only once at the beginning of your application. Calling this method for each conversion would degrade the conversion performance.

Also, you can use the *RpsGetLicenseStatus* function at anytime to retrieve the license status.



Incorporating the DLL into Your Application

A C/C++ application should include the RPS.h file into the application module that needs to call the RPS32 dll. It also should include the RPS32.LIB as the linker library. Please refer to the demo application for an example.

A Visual Basic application needs to include the RPS.BAS file in the project. Please refer to the DMO_VB project for an example.

If you using Clarion, please ask us for a demo written in Clarion provided by one of our customers.

Please also make sure that the rps32.dll and other DLLs from the distribution zip file are copied to a directory available at run-time.



Sample Conversion Code

First you would create a new conversion session:

```
dim id as long
```

Set the product [license key](#) and create a session id:

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

```
id = RpsNewSession()
```

You would use the session id to call other conversion functions.

Here are sample code examples to convert RTF to PDF format.

1. Convert an RTF file to an PDF file.

```
RpsConvertFile(id,"test.rtf","test.pdf")
```

2. Convert an RTF string to an PDF string

```
Dim hMem as long
```

```
Dim OutSize as long
```

```
Dim RtfString as string
```

```
hMem = RpsConvertBuffer(id,RtfString, Len(RtfString),  
OutSize)
```

```
If (hMem <> 0) Then
```

```
    PdfString = Space$(OutSize + 1) ' allocate space for the  
                                   output string
```

```
    RpsHandleToStr(PdfString, OutSize, hMem) ' copy pdf from  
    hMem global handle to the PdfString variable.
```

```
End If
```

*After the conversion process, end the session by calling the RpsEndSession function.
This frees up the memory used by the session.*

```
RpsEndSession(id)
```



Application Interface functions

These API functions allow you to convert from rtf to pdf format. Your application must include the RPS.H file (c/c++), or RPS.BAS (VB) files. These files declare these functions.

The following is a description of the Rps API functions in an alphabetic order:

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- [RpsConvertBuffer](#)
- [RpsConvertFile](#)
- [RpsEndSession](#)
- [RpsGetLastMessage](#)
- [RpsGetLicenseStatus](#)
- [RpsHandleToStr](#)
- [RpsNewSession](#)
- [RpsResetLastMessage](#)
- [RpsSetFlags](#)
- [RpsSetBoolProp](#)
- [RpsSetNumProp](#)
- [RpsSetTextProp](#)



RpsConvertBuffer

Convert rtf to pdf using memory buffers.

HGLOBAL RpsConvertBuffer(id, InString, InStringLen, OutStringLen)

DWORD id;	Session id.
LPBYTE InString;	Input string containing RTF document.
int InStringLen;	length of the input document string.
LPINT OutStringLen;	The variable to receive the length of the converted document.

Return value: This function returns a global memory handle containing the converted

documented. You can either use the RpsHandleToStr or GlobalLock functions to access the data string contained in this global memory handle. GlobalLock is a Windows SDK function.

A null return values indicates an error.

Examples:

```
Dim hMem as long
Dim OutSize as long
Dim RtfString as string

hMem = RpsConvertBuffer(id,RtfString, Len(RtfString),
OutSize)
If (hMem <> 0) Then
    PdfString = Space$(OutSize + 1) ' allocate space for the
                                   output string
    RpsHandleToStr(PdfString, OutSize, hMem) ' copy pdf from
                                   hMem global handle to the PdfString variable.
End If
```



RpsConvertFile

Convert rtf to pdf using disk files.

BOOL RpsConvertFile(id, InFile, OutFile)

DWORD id; Session id.

LPBYTE InFile; Input file containing RTF document

LPBYTE OutFile; Output files, contains the converted document

Return value: This function returns TRUE when successful.

Examples:

```
RpsConvertFile(id, "test.rtf", "test.pdf")
```


- 0 License application successful.
- 1 Invalid License Key.
- 2 Invalid License Number.
- 3 Ran out of available licenses. Please consider purchasing additional licenses.
- 4 The evaluation period has expired.

You can use the RpsGetLicenseStatus function at anytime to retrieve the license status.



RpsHandleToStr

Convert a global memory handle to a Visual Basic string.

BOOL RpsHandleToStr(string, length, hMem)

LPBYTE string; pointer to a visual basic string

long length length of the string

HGLOBAL hMem; Global memory handle

Description: This function can be used to copy the contents of a global memory handle to a given visual basic string. The calling routine must expand the string to appropriate length before calling this function.

Example:

```
string=space(length)
HandleToStr(string,length,hMem)
```

The input global memory handle is freed up after copying its contents to the string.

Return Value: This function returns TRUE if successful.



RpsNewSession

Create a new conversion session.

DWORD RpsNewSession()

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.



RpsSetBoolProp

Set a boolean property for the pdf document.

BOOL RpsSetBoolProp(id, prop, val)

DWORD id; Session id.

int prop; One of the following property type to set:

RPPROP_COMPRESS_TEXT	Compress text inside the pdf document. Default = false.
RPPROP_EMBED_FONTS	Embed font data in the pdf document. Default = false.
RPPROP_BOOKMARK	Include bookmarks. Default = true.
RPPROP_HYPERLINK	Include hyperlinks. Default = true.
RPPROP_ENABLE_GDIPLUS	Enable GDI++. The ssgp.dll file must be installed for this property to be effective.
RPPROP_RC4_128	Enable RC4 128 bit security when password is specified.
RPPROP_AES_128	Enable AES 128 bit security when password is specified.
RPPROP_PDFA_1B	Generate Pdf/a-1b compliant document.
RPPROP_PDFA	Generate Pdf/a compliant document.
RPPROP_NO_TOC_UPDATE	Do not update the original table-of-content.
RPPROP_USE_ORIG_JPG	Place the original jpeg image data into the pdf file.
RPPROP_SHRINK_IMAGES_TO_FIT	Shrink RTF images to fit the page/table.
RPPROP_PDFUA	Generate PDF/UA (user accessibility)

compliant PDF.

RPPROP_EXACT_TEXT_PLACEMENT Use exact text placement. This flag causes the editor to emit character width for every character. Default = false.

BOOL val; Specify TRUE or FALSE value for the specified flag.

Return value: This function returns TRUE when successful.



RpsSetNumProp

Set a numeric property for the pdf document.

BOOL RpsSetNumProp(id, prop, val)

DWORD id; Session id.

int prop; One of the following property type to set:

RPPROP_PICT_QUALITY Specify picture quality from 1 to 5 where 1=lowest, 5=highest, 3=default.

RPPROP_PERM_FLAGS Permission flags. The permission flags is effective only when the OwnerPassword is also specified using the RpsSetTextProp method.

One or more of the following permission flags can be specified using the 'val' parameter:

PERM_PRINT Allow printing of the document

PERM_MOD Allow modification

PERM_COPY Allow copying of the document to clipboard.

You can specify more than one permission flags using the 'or' operator.

int val; The numeric value of the selected property.

system directory, or any other directory available at the run-time. Now register rpcc.dll using the regsvr32 system utility. The other dlls do not need registration. Now you are ready to use this product within an ASP page.

Here is an example ASP page to show a conversion of RTF string into an PDF string:

```
<%@ LANGUAGE = "VBSCRIPT"%>
<%
Option Explicit

Dim sRTF
Dim sPdf
Dim obj

Set obj = Server.CreateObject("rpcc.converter")

sRTF = "{\rtf1 This \b is \b0 a test of \i RTF \i0 to \i PDF
\i0 Conversion.}"

if len(sRTF) > 0 then
    sPdf = obj.ConvertBuffer(CStr(sRTF))
End If

Set obj = Nothing
%>

<html>
<head>
</head>

<body>
<p> Some text before </p>

<%

Function StringToByteArray(S)
    Dim i, ByteArray
    For i=1 To Len(S)
        ByteArray = ByteArray & ChrB(Asc(Mid(S,i,1)))
    Next
```

```
StringToByteArray = ByteArray
End Function

Response.Clear()
Response.Charset = ""
Response.ContentType = "application/pdf"

Response.AddHeader "Content-Disposition",
                    "inline;filename=" + "test.pdf"

Response.BinaryWrite(StringToByteArray(sPDF))

Response.Flush()
Response.End()

%>
```

```
<p> Some text after </p>
</body>
</html>
```

When the above asp file is loaded, IE displays generated pdf codes

The method names used by the rpsc.dll are the same as the functions mentioned in the Application Interface functions. However the 'Rps' prefix is not used by the rpsc method names. For example, the RpsConvertFile function is named as ConvertFile within the rpsc.dll file.

Also, the constants values are prefixed with an 'VAL_' prefix. For example, the constant RPFLAG_SEGMENT_ONLY becomes VAL_RPFLAG_SEGMENT_ONLY.