

Software License Agreement

DOC to RTF Converter

For Win32/Win64

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SUB SYSTEMS, INC.

3200 Maysilee Street

Austin, TX 78728

512-733-2525

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Getting Started

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

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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
WHS.H	The <i>include</i> file to include into a C/C++ application module that calls the WHS routine. It contains the constant definitions and the prototypes for the API functions.
WHS32.DLL	The DLL file
WHS32.LIB	Import library for the WHS32 DLL
ter31.dll	Used internally by the WHS32.DLL
txml2.dll	Used internal by the WHS32.DLL
hts26.dll	Used internally by the WHS32.DLL
txml2.dll	Used internally by the WHS32.DLL
wrs15.dll	Used internally by the WHS32.DLL
WHCC.DLL	Wrapper DLL to used with an ASP page

Visual Basic Interface and Demo Files:

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

```
int WhsSetLicenseInfo(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 "sno" 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=WhsSetLicenseInfo("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: *WhsSetLicenseInfo* 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 `WhsGetLicenseStatus` function at anytime to retrieve the license status.



Incorporating the DLL into Your Application

A C/C++ application should include the `WHS.h` file into the application module that needs to call the `WHS32.dll`. It also should include the `WHS32.LIB` as the linker library. Please refer to the demo application for an example.

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

Please also make sure that the whs32.dll, hts26.dll,txml2.dll, wrs15.dll, txml2.dll and ter31.dll files 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=WhsSetLicenseInfo("xxxxx-yyyyy-zzzzz",  
                          "srabnnnnn-n","Your Company Name")
```

```
id = WhsNewSession()
```

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

Here are sample code examples to convert from DOC or DOCX format to HTML format.

1. Convert a DOC file to an HTML file.

```
WhsConvertFile(id,"test.doc","test.htm")
```

2. Convert an DOC string to an HTML string

```
Dim hMem as long
```

```
Dim OutSize as long
```

```
Dim HtmlString as string
```

```
hMem = WhsConvertBuffer(id,DocString, Len(DocString),  
OutSize)
```

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

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

```
    WhsHandleToStr(HtmlString, OutSize, hMem) ' copy html from  
                                               hMem global handle to the HtmlString variable.
```


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 WhsHandleToStr 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:

Convert an DOC string to an HTML string

```
Dim hMem as long
Dim OutSize as long
Dim HtmlString as string

id = WhsNewSession()

hMem = WhsConvertBuffer(id, DocString, Len(DocString),
OutSize)
If (hMem <> 0) Then
    HtmlString = Space$(OutSize + 1) ' allocate space for the
                                     output string
    WhsHandleToStr(HtmlString, OutSize, hMem) ' copy html
from                                     hMem global handle to the HtmlString variable.
End If
```



WhsConvertFile

Convert doc to html using disk files.

BOOL WhsConvertFile(id, InFile, OutFile)

DWORD id; Session id.

LPBYTE InFile; Input file containing DOC document

LPBYTE OutFile; Output files, contains the converted document

Return value: This function returns TRUE when successful.

Examples:

Convert an DOC file to an HTML file.

```
id = WhsNewSession()  
  
WhsConvertFile(id, "test.doc", "test.htm")
```



WhsEndSession

End a conversion session.

BOOL WhsEndSession(id)

DWORD id; Session id.

Description: This function is called at the end of the conversion process to free up the session related resources.

Return Value: The function returns TRUE when successful.



WhsGetLastMessage

Get the last message.

int WhsGetLastMessage(id, WhsMessage, DebugMessage);

DWORD id; Session id.

LPBYTE WhsMessage; Returns the default user message text in English

LPBYTE 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 WHFLAG_RETURN_MSG_ID flag. This flag is set using the WhsSetFlags function.

BOOL WhsGetPictName(id, idx, PictFileName)

DWORD id; Session id.

int idx; The index of the picture file. The index value must be between 0 and (Total pictures - 1). The total picture count can be retrieved using the WhsGetPictCount function.

LPBYTE PictFileName; The location to receive the picture file name.
VB Note: This variable is defined as 'string'. This parameter must be assigned 300 spaces before calling this function:

```
PictFileName= space$(300)  
WhsGetPictName(id,idx,PictFileName)
```

Description: This function is called after converting a file to get the individual picture file name or picture url.

Return Value: This function returns TRUE when successful.



WhsHandleToStr

Convert a global memory handle to a Visual Basic string.

BOOL WhsHandleToStr(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.



case, you would use this function to specify a different download directory, such as c:\inetpub\wwwroot\MyProject. A directory specified with this function should have write access so the temporary files can be created.

The specified folder is also used to place the picture files generated during doc to html conversion.

Return Value: This function returns TRUE when successful.



WhsSetFlags

Set certain flags or retrieve the values of the flags.

DWORD WhsSetFlags(id, set, flags)

DWORD id; Session id.

BOOL set; TRUE to set the given flags, FALSE to reset the given flags

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

WHFLAG_RETURN_MSG_ID	Do not display the error messages. Save the error code to be later retrieved using the WhsGetLastMessage function.
WHFLAG_SEGMENT_ONLY	Do not include html header and body tags. Generate just html segment.
WHFLAG_LIST_TO_TEXT	Convert doc lists to text numbers in html output.
WHFLAG_NO_SPAN_TAG	Do not write the 'span' tag to html output.
WHFLAG_NO_FONT	Do not write the 'font' tag to html output.
WHFLAG_FLASH_SUPPORT	Create html tags to support Flash.
WHFLAG_XLATE_SINGLE_QUOTE	Write single quote character as ' to html output.
WHFLAG_PNG_RGB	Save PNG pictures in high-quality RGB colors.

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.

ASP Interface

This chapter describes the usage of the DOC to HTML Converter within an ASP page. The product includes an additional wrapper DLL called WHCC.DLL which is used to access the converter within an ASP page. Please follow the following steps:

Copy ter31.dll, txml2.dll, hts26.dll, txml2.dll, wrs15.dll, whs32.dll and whcc.dll to the Windows system directory, or any other directory available at the run-time. Now register whcc.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 DOC string into an HTML string:

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

Dim DocString
Dim HtmlString
Dim obj

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

call obj.SetDownloadDir("c:\inetpub\wwwroot\DmoWhc") ' folder
               where the picture files are created
call obj.SetFlags(1,obj.VAL_WHFLAG_RETURN_MSG_ID)   ' quiet
mode
call obj.SetFlags(1,obj.VAL_WHFLAG_NO_PICT_PATH)    ' dont add
               file path to the 'img' tag

DocString=""
HtmlString=""

' read the test.doc file into a string
DocString=
obj.FileToString("c:\inetpub\wwwroot\DmoWhc\test.doc")

' do conversion
HtmlString = obj.ConvertBuffer(CStr(DocString))

Set obj = Nothing
```

`%>`

```
' show the converted html  
<%= HtmlString %>
```

IE would display the converted html data.

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

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