



OCTOBER DEVELOPER NEWS

WHY SHOULD YOUR SOFTWARE SUPPORT MORE THAN ONE HARDWARE MANUFACTURER?

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In the beginning of the Computer Telephony industry it was an advantage to make strategic alliances with hardware manufacturer's in order to leverage the newest technology and to combine marketing resources. Today almost all of the Fax Server and Voice Mail Server companies are using several hardware manufacturers to satisfy their customer's diverse demands for new technologies.

The CT market is evolving so rapidly that a one-hardware manufacturer can not keep up with the demand for technology. Our open fax architecture and single API for the leading fax boards gives developers the ability

to use standard based building blocks to create complex applications. By providing more flexibility, the developer is able to render innovative communication systems and reach a wider audience.

A unified messaging scalable system requirement further complicates the picture. Consider a typical corporate customer: He already has an out dated fax server and wants to upgrade to newer technology. He'd like to keep his old hardware since he paid a lot for it a few years ago.

He may start out with a pilot fax server system of 4 ports

(using old hardware) but wants to go up to 36 or 48 ports and wants to add voice mail at a later time (getting some new hardware). In addition he wants to do a large volume of fax broadcasting once a week sharing fax and voice resources.

A similar scenario: the customer is already sold on the hardware and shopping for a software solution but insists on using one hardware vendor for faxing and another for voice mail. In both situations, unless your fax or voice mail server supports a variety of hardware you've lost the sale.

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HOW CAN I SET THE GENERATE IMAGE IN MEMORY FEATURE PROGRAMMATICALLY IN A VB.NET PROJECT?

You can use the *EnableGenerateImageInMemory* method of the *BlackIceDevmode.ocx*. The method has only one parameter: a handle to the devmode structure. You can get the handle to the devmode structure by loading the devmode using the *LoadBlackIceDevmode* method.

Not all file formats support the *GenerateImageInMemory* feature. Only TIF, BMP and EMF files can be generated in memory. So if another file type is set (for example JPG) in the printing preferences, you won't be able to enable the *GenerateImageInMemory* feature. When you call the *SaveBlackIceDEVMODE* method,

the method doesn't save any invalid settings (in this case the *GenerateImageInMemory* is invalid, because the JPG doesn't support it). But you can programmatically change the file format with the *SetFileFormat* method.

THREAD-BASED TEXT SEARCH IN PDF DOCUMENTS

New features have been added to the interface of the PDF Reader Library. The previous Text Search solution could search the text on the PDF document, but you could not stop the search during the process. This is not a problem in a non-interactive application, but it could be a problem if a user searches for text that doesn't exist in a 1000-page document. Now, there is another tool for searching, the thread-based text search.

How to use this tool

You can start a thread for text searching by calling the *StartTextSearchThread* member function of a CPDF object. During text searching the thread sends messages at the following events:

- Found text
- End of the page
- End of the text search
- Finished the text search

In the client application you can get these messages with parameters (*TextSearchInfo* structure) and handle the events. The *TextSearchInfo* structure contains the following information:

- "eventType"
(ET_ENDPAGE, ET_FOUNDTXT, ET_ENDDOCUMENT, ET_FINISHED, ET_DEFAULT) that define the type of the event
- "page"
that contains the current page during the text search
- "pos"
that contains the position of the found text
- "pPDF"
that is a pointer to the CPDF object that started the text search thread

The PDF Reader Demo Sample Application already uses this feature.

If any text is found the thread stops. If you want to continue searching, you can call one of the following functions:

- "ContinueTextSearchThread"
continue the searching of the original text in the original direction
- "ContinueTextSearchThreadForward"
continue forward the searching of the original text
- "ContinueTextSearchThreadBackward"
continue backward the searching of the original text

One can stop the search by calling the *StopTextSearchThread* member function. It is used for example when the user wants to interrupt the process (the sample uses it when user clicks on the STOP button on the Text Searching dialog).

With this tool it is easy to develop an interactive text search in PDF documents.

For more information please read the PDF SDK online manual in the following place:

http://www.blackice.com/Help/Tools/PDF_SDK_webhelp/WebHelp/Black_Ice_PDF_SDK_Help.htm



Notice: The Printer Drivers for Windows 95 / 98 / ME, and the Voice C++/ActiveX Toolkit have been discontinued as of the end of this year. Black Ice Software will no longer provide support for these products after January 1st, 2008.

BATES NUMBERING ENTRIES IN THE REGISTRY

The user-mode printer drivers save the Bates numbering settings in the registry instead of the printer driver's INI file. The following list shows you the meaning of the registry entries:

Color

This is a COLORREF value. 0x00bbggrr.

The low-order byte contains a value for the relative intensity of red; the second byte contains a value for green; and the third byte contains a value for blue. The high-order byte must be zero. The maximum value for a single byte is 0xFF.

Font Charset

Specifies the character set.

Font Clipprecisions

Specifies the clipping precision. The clipping precision defines how to clip characters that are partially outside the clipping region.

Font Escapement

Specifies the angle, in tenths of degrees, between the escapement vector and the x-axis of the device. The escapement vector is parallel to the base line of a row of text.

Font Facename

Typeface name of the font

Font Height

Specifies the height, in logical units, of the font's character cell or character. The character height value (also known as the em height) is the character cell height value minus the internal-leading value.

Font Italic

Specifies an italic font if set to 1. Otherwise 0.

Font Orinetation

Specifies the angle, in tenths of degrees, between each character's base line and the x-

axis of the device.

2 : pixel

Font Outprecisions

Specifies the output precision. The output precision defines how closely the output must match the requested font's height, width, character orientation, escapement, pitch, and font type.

Position

Position of the bates number

0 : Top Left

1 : Top right

2 : Center

3 : Bottom left

4 : Bottom right

Font PinchAndFamily

Specifies the pitch and family of the font.

Font Quality

Specifies the output quality.

Prefix

Bates number prefix string

Font Strikeout

Specifies a strikeout font if set to 1. Otherwise 0.

Rotation

Rotation of the Bates number text. You can set the font escapement with this value.

Font Underline

Specifies an underlined font if set to 1. Otherwise 0.

Start with

Bates start number

Font Weight

Specifies the weight of the font in the range 0 through 1000. For example, 400 is normal and 700 is bold. If this value is zero, a default weight is used.

Transparent

Transparency of the bates number

0 : Opaque

1 : Transparent

Font Width

Specifies the average width, in logical units, of characters in the font. If Font Width is zero, the aspect ratio of the device is matched against the digitization aspect ratio of the available fonts to find the closest match, determined by the absolute value of the difference.

Use prefix

Use prefix string or not

1 : use

0 : not use

Name

Name of the bates format

X Offset

Horizontal offset of the Bates number

Offset unit

Offset unit of the position values.

0 : 0.1 mm

1 : 0.01 inch

YOffset

Vertical offset of the Bates number

For more information about Font settings please check the LOGFONT structure on MSDN.

Time to upgrade?



Latest Version Numbers

Printer Drivers

Impact Products

Vista / XP Color, ColorPlus, EMF, Mono, PDF	10.04	7/13/07	Impact Fax Server	8.01	8/24/07
2003 Terminal Servers / Citrix Color, ColorPlus, EMF, Mono, PDF	10.04	7/13/07	Impact Fax Broadcast	6.10	6/1/07
			Impact ColorFax	8.01	8/24/07

Fax, Voice, and Image Toolkits

Internet Tools

Fax & Voice C++/ActiveX	12.50	6/18/07	Print2Email	7.00	7/9/07
Document Imaging SDK/ActiveX	10.84	9/12/07	Tiff Viewer Plug-in - Complete	8.06	8/24/07
Image PDF Plug-in	10.84	9/12/07	Print Monitoring Server	4.00	8/30/07
PDF SDK/ActiveX Professional	2.0	6/11/07	Print2RDP	4.10	6/20/07
Annotation SDK/ActiveX	10.84	9/12/07	Print2FTP	2.02	8/15/06
Image SDK/ActiveX	10.84	9/12/07			
Tiff SDK/ActiveX	10.84	9/12/07			
Cover Page Generator SDK/ActiveX	10.84	9/12/07			
Barcode SDK/ActiveX	5.10	5/7/07			

Free Software

Impact ColorFax Lite	8.01	8/24/07
Tiff Viewer Plug-in - Free Version	8.06	8/24/07
ModemWeasel	2.00	8/01/02