



Black Ice May Newsletter

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New and Improved TWAIN Interface for Black Ice Imaging

Version 10.20 of the Black Ice Imaging Development Toolkits include a new and improved TWAIN Interface. The new BITWAIN DLL and OCX provide developers with additional control over TWAIN compliant data sources.

Callback functions replaced by messages

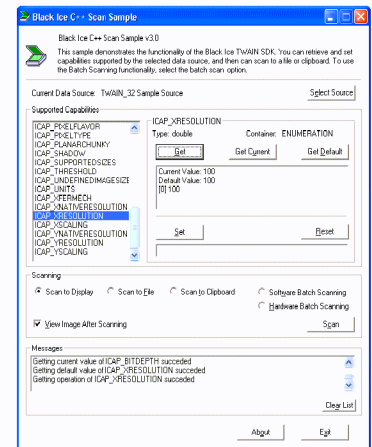
The new Bitwain interface sends events in each phase of scanning, enabling more flexible control for the application. The application will receive a message for each scanning event

such as: PageFinished, ScanningDocumentFinished, ScanningError, FeederEmpty, etc. All of these messages can then be processed by the scanning application depending on the actual message received.

The Black Ice Imaging Development Toolkits contain new sample applications with full source code to demonstrate how to use the new messaging interface.

Hundreds of capabilities supported

The new BITWAIN controls now support all of



the TWAIN 1.9 capabilities. The scanning application can retrieve the default values, retrieve the current values and can change the current setting to a specific de-

(Continued on page 2)

New Online Knowledge Base and Forum Launched!

Black Ice Software has recently launched a new online Knowledge Base and Forum, which can be accessed by anyone by visiting the following webpage: <http://www.blackice.com/forum/index.php>.

The new Knowledge Base contains a collection of articles compiled by our technical support team and have now been

made available to the public. New articles are constantly added in an effort to assist developers with their application development using the Black Ice toolkits.

Additionally, the addition of an online forum to the Black Ice website provides developers with a mechanism to communicate with each other as well as our technical

support team, and to allow others to benefit from their experiences. Developers can also request source code samples and new features that they would like to see in upcoming release of the Black Ice development tools.



Subscription Service available for Printer Drivers, call for details.
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(Twain... - Continued from page 1)

sired value.

Some of the newly supported capabilities include:

- CAP_AUTOFEED
- CAP_DUPLEX
- CAP_FEEDERENABLED
- CAP_FEEDERLOADED
- ICAP_BITDEPTH
- ICAP_XRESOLUTION
- CAP_YRESOLUTION

and there are many more capabilities available.

The BITWAIN controls can be used with scanner, digital cameras any additional devices with TWAIN support, to retrieve the images and other information from the device.

Acquiring images is greatly simplified!

The new TWAIN sample applications demonstrates how to acquire an image in just a few steps. The developer simply has to set the capabilities that are desired, such as X and Y resolution and the scan area. They can then call a single function to

start the scanning. During the scanning, the BITWAIN control will notify the application for each phase of the scanning through window messages.

Selecting the Data Source

The TWAIN Data Source selection can now be set programmatically, without any user intervention. New features include retrieving and enumerating the available Data Sources and specifying one of the available Data Sources to be used as the current Data Source.

Processing a Very Noisy Fax

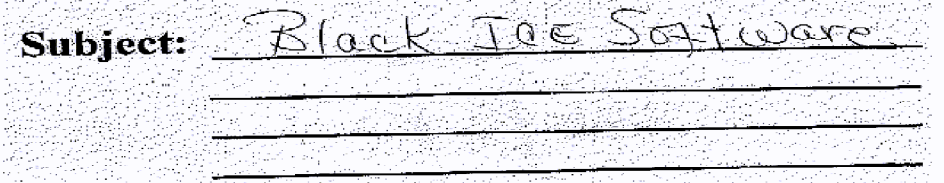
Using the Black Ice Document Imaging SDK/ActiveX's Filters and Effects, developers can add a wide variety of image processing to their applications.

One of the most commonly encountered scenarios where image processing plays a key role is in fax image processing. Since faxing relies on so many variables (Sending and receiving hardware, phone lines, fax protocols, etc.) there are many places where noise and other undesirable results can occur.

By Using the Document Imaging SDK/ActiveX's Filters and Effects, developers can provide solutions to a variety of scenarios.

For Example:

The image below was taken from a fax received in the Black Ice Sales office, and contains a



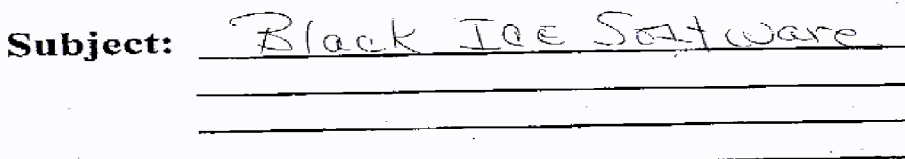
Received Fax Sample

severe degree of transmission noise, which is a common occurrence in faxed documents: (see Received Fax Sample)

The received fax image can be greatly improved and enhanced by using a single filter from the Black Ice Document Imaging SDK/ActiveX. By applying a Binary Opening filter using the following matrix:

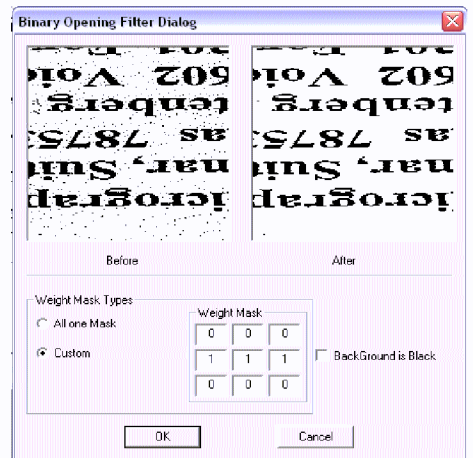
$$\begin{pmatrix} 0 & 0 & 0 \\ 1 & 1 & 1 \\ 0 & 0 & 0 \end{pmatrix}$$

all of the fax transmission noise



Received Fax Sample After Filtering

is removed from the received image, resulting in a much cleaner image (see Received Fax Sample After Filtering).



Document Imaging SDK Binary Opening Dialog Box

Eicon Networks Diva Server supported by Fax C++/ActiveX

Eicon Networks Corporation ("Eicon"), a global provider of communication products for networked business applications, today announced Black Ice Fax C++/ActiveX development toolkit support for the Eicon's Diva Server platform. The Eicon Diva Server products are based on open technology enabling the server to take advantage of the extensive capabilities of third-party applications.

As a member of the Eicon Networks Technology Partner program, Black Ice is able to offer high quality and timely solutions to the market place.

The Diva Server products provide all the capabilities needed for a powerful fax solution, ranging from single basic rate (BRI) adapters, for the small to medium sized enterprises, to T1 and primary rate (PRI) models,

fulfilling communication needs of large enterprises. Diva Server fully supports Fax Group 3 based on the T.30 fax standard including error correction (ECM) and compression standards (MH; MR; MMR) ensuring fast and reliable fax transmission with a transmission speed of up to 33.6 kbps (V.34).

Printer Driver Tips and Tricks

Solution for Error number 1796

The Black Ice Technical Support Team recently encountered a handful of computer systems where the printer driver installation failed with the following error message: "Error in function dAddPrinter, Parameter Black Ice PDF (Demo). Error code 1796".

It turned out that on all of these systems, the registry privileges were very limited, keys were created with read only access right, and the setup wasn't able to create the necessary registry keys to correctly install the printer driver on the system ("HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Print\Monitors\Ice Monitor P (Demo)\PortList", in the case of the PDF demo driver) .

In the latest version of the printer drivers, Black Ice has solved this issue by forcing read and write access rights to the Black Ice specific registry keys.

The Group file

What is a Group file ?

A "group file" is generated by the Black Ice printer driver for every print job. The group file contains information about the generated images such as Paper size, DPI, color depth, encoding (JPEG, TIFF, PDF, etc) and of course the name of the generated files.

After printing, how can I learn the name of the group file?

The group file name is the same as the generated image file name, ending with a .grp extension. It is located in the same directory as the generated image file. The name of the group file is also sent with the start doc and end doc event when you capture the printer driver messages.

How can I get the name of the generated image files?

The group file contains the name of the generated images. First the application should

check for the print status, to see if the document was successfully printed. Next read the number of total pages from the "Total number of pages=" value. The name of each image is saved to the "FileName" value in the section reserved for the actual page (section [Page 1] for the first page, etc.)

```
[Black Ice TIFF]
Image Format=TIFF Group 4
Append Image Enabled=Yes
Bits Per Pixel=1
Print status=Printing finished
successfully
Document name=Microsoft
Word - New.doc
Total number of pages=1
[Page 1]
FileName=C:\Documents and
Settings\alpar.BLACKICE.001
\Local Set-
tings\Temp\AAA10.TIF
TextFileName=C:\Documents
and Set-
tings\alpar.BLACKICE.001\Local
Settings\Temp\AAA10.TXT
```

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New and Improved TWAIN Interface New Forum + Knowledge Base and More

Time to upgrade?



Latest Version Numbers

Printer Drivers

| Product | Version | Date |
|---|---------|----------|
| Color Printer Driver for Win95/98/ME | 5.62 | 04/20/04 |
| Metafile Printer Driver for Win95/98/ME | 5.62 | 04/20/04 |
| Mono Printer Driver for Win95/98/ME | 5.62 | 04/20/04 |
| PDF Printer Driver for Win95/98/ME | 5.62 | 04/20/04 |
| Mono Printer Driver for NT/Win2000/XP | 8.62 | 03/29/04 |
| Color Printer Driver for NT/Win2000/XP | 8.62 | 03/29/04 |
| Mono Printer Driver for NT/W2K/XP | 8.62 | 03/29/04 |
| Metafile Printer Driver for NT/W2K/XP | 8.62 | 03/29/04 |
| PDF Printer Driver for NT/W2K/XP | 8.62 | 03/29/04 |
| Terminal Server Printer Drivers/Win2003 | 8.62 | 03/29/04 |

Fax, Voice and Image Toolkits

| Product | Version | Date |
|--------------------------------------|---------|----------|
| Fax C++/ActiveX/COM | 10.04 | 04/21/04 |
| Voice C++/ActiveX/COM | 10.04 | 04/21/04 |
| Tiff SDK/ActiveX/COM | 10.20 | 04/29/04 |
| Annotation SDK/ActiveX/COM | 10.20 | 04/29/04 |
| Fax Cover Page Generator SDK/ActiveX | 10.20 | 04/29/04 |
| Image SDK/ActiveX | 10.20 | 04/29/04 |
| Document Imaging SDK/ActiveX | 10.20 | 04/29/04 |
| Barcode SDK/ActiveX | 2.22 | 04/15/04 |

Free Software

| | | |
|------------------------------------|------|----------|
| Impact ColorFax Lite | 6.51 | 02/21/03 |
| Tiff Viewer Plug-in - Free Version | 5.00 | 03/26/03 |
| ModemWeasel | 2.00 | 08/01/02 |

Impact Products

| Product | Version | Date |
|------------------------|---------|----------|
| Impact Fax Server | 4.36 | 12/18/02 |
| Impact Fax on Demand | 4.06 | 12/01/00 |
| Impact Fax Broadcast | 3.50 | 02/22/04 |
| Impact ColorFax | 5.50 | 02/22/04 |
| Drag and Drop Printing | 2.00 | 12/24/02 |

Internet Tools

| | | |
|--------------------------------|------|----------|
| Print2Email | 3.01 | 01/20/03 |
| Tiff Viewer Plug-in - Complete | 5.01 | 06/26/03 |
| Print Monitoring Server | 2.40 | 04/02/04 |