

SEPTEMBER DEVELOPER NEWS

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START APPLICATION SECURITY PERMISSIONS ON TERMINAL SERVERS

The Black Ice printer driver has a feature to start any custom program before/after every printing. The printer driver can also pass parameters to the custom application. (The settings for Start Application and it's parameters is outside of the scope of this article.)

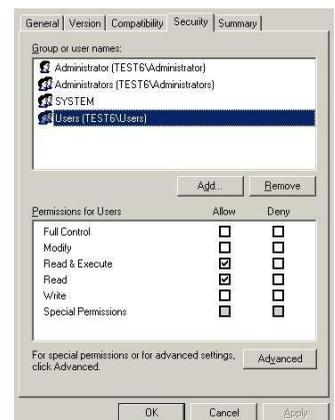
If you are a system administrator you need to pay attention to security permissions of your custom start applications. All users allowed to use

the Black Ice printer driver and start the custom application need to have Read & Execute permissions for the start application. You can allow these security permissions for users or entire groups.

For example the following screen shot shows that all users in the Users group have permission to launch the start application.

Note: If the printer driver installer doesn't set your start applica-

tion by default you should set it manually for every user.



HOW TO ITERATE AND SELECT ANNOTATION OBJECTS PROGRAMMATICALLY

This article demonstrates how annotation objects can be iterated programmatically using BiAnno ActiveX control. The source code snippet of this article is written in Visual Basic 2005.

From version 10.96 of BiAnno.ocx an annotation object can be selected programmatically. So all annotation objects on the page can be iterated by a cycle and can be selected by any criteria (for example object

type, object order, object color, line width etc.). In the example on page 2 we select the *nAnnoNumber*-th annotation object and draw the selection frame of the object.

(Continued on page 2)

(Annotation Source Continued from page 1)

```

Dim nX As Long
Dim nReturn As Long
Dim hDC As Long

hDC = BIDisp.GetDC
' Deselect all annotation objects
BiAnno.AnnoObjDeselect(hDC)
' You should call the AnnoUISetRecalc method before selecting the object
BiAnno.AnnoUISetRecalc(True)

nReturn = BiAnno.AnnoObjSelectNext
nX = 1

Do While nReturn = 1
    If nAnnoNumber = nX Then
        Exit Do
    End If

    nX = nX + 1
    nReturn = BiAnno.AnnoObjSelectNext
Loop

' Release the DC
BIDisp.ReleaseDC(hDC)
' Update the control
BIDisp.UpdateControl(0, 0, 0, 0)

```

DYNAMIC WEB CONTENT THROUGH ACTIVE X

Are you creating a web application with a Black Ice imaging tool kit? Have you ever wanted to add some dynamic content onto the server or just wanted your users to always see any changes instantly?

When one uses the web browser to download files the browser will cache the downloaded file. Whenever that file is re-linked again the browser will just give back the cached file. While this makes browsing faster and bandwidth usage lower, it also may disrupt dynamic web content usage, because the application would use the same cached file over and over again instead of

downloading a new one each time.

While web servers may send caching information to the client's browser, sometimes this functionality is unavailable. This article explains a technique to circumvent the browser caching the dynamic content wanted.

The web browser caches files from every unique URL requested according to its caching settings. The technique lies in generating a new URL to the same target to be downloaded every time. Using HTTP GET parameters passed with the URL request can achieve this.

For example when using the

DownloadImageFileURL method of the Black Ice BiTiff ActiveX control, one can do it in the following way:

```

// The URL to a picture file
var FilePath = "http://
www.blackice.com /
DOCIMG_HTML_SAMPLE/color.jpg";
// Added GET parameter to the URL
var FileRand = FilePath + "?time="
+ String(new Date().getTime());

```

The FileRand variable has an added GET variable of "time" with the actual time as value. Using FileRand will not use the cache of the internet browser and will download the picture every time it is linked.

HOW TO CREATE A MESSAGE CAPTURE APPLICATION THAT WORKS ON VISTA AND TERMINAL SERVERS

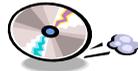
You can create a “universal” message capture application just following these guidelines. In this case “universal” means that the message capture application can be run on NT and TS operating systems without any source code differences.

1. Use PIPE printer driver messages. The PIPE messages work on every operating system (Vista and Terminal Servers). If you call the `StartCapture` method of the `BiPrnDrv.ocx` with `MESSAGE_CAPTURE_METHOD_PIPE` (3) parameter the printer driver will send PIPE messages.
2. There are separate versions of `BiPrnDrv.ocx` for NT and TS. The installer should detect the operating system and install the appropriate `BiPrnDrv.ocx` depending on the operating system.
3. If you are using the `BiPrnDrv.ocx` on a form in a .NET application (C#, VB.NET), the *`AxInterop.BIPRNDRVLib.dll`* and *`Interop.BIPRNDRVLib.dll`* are different on NT and TS. These interop files are generated automatically by the development environment. You should generate these files for both NT and TS, for example like this:

- Register `BiPrnDrv.ocx` for NT on your development machine using `regsvr32.exe`.
- Open your message capture application, and rebuild it.
- Save the *`AxInterop.BIPRNDRVLib.dll`* and *`Interop.BIPRNDRVLib.dll`* files.
- Close Visual Studio.
- Copy over `BiPrnDrv.ocx` for NT with `BiPrnDrv.ocx` for TS.
- Register `BiPrnDrv.ocx` for TS on your development machine using `regsvr32.exe`.
- Open your message capture application, and rebuild it.
- The interop files for TS are generated automatically when the build was successful.

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Time to upgrade?



Latest Version Numbers

Development Tools

Impact Products

Printer Drivers	10.23	08/01/08	Impact Fax Server	8.03	05/21/08
Fax & Voice C++/ActiveX	12.50	06/18/07	Impact Fax Broadcast	6.5	07/02/08
Document Imaging SDK/ActiveX	10.95	04/25/08	Impact ColorFax	8.02	02/25/07
Image PDF Plug-in	10.95	04/25/08	Print2Email	7.10	04/25/08
PDF SDK/ActiveX Professional	2.0	06/11/07	Tiff Viewer Plug-in - Complete	8.13	09/04/08
Annotation SDK/ActiveX	10.95	04/25/08	Print Monitoring Server	4.10	03/14/08
Image SDK/ActiveX	10.95	04/25/08	Print2RDP	4.80	09/04/08
Tiff SDK/ActiveX	10.95	04/25/08	Print2FTP	2.02	08/15/06
Cover Page Generator SDK/ActiveX	10.95	04/25/08	FileMorph	2.13	05/20/08
Barcode SDK/ActiveX	5.10	05/07/07	FileMorph DS	2.12	04/25/08

Free Software

Impact ColorFax Lite	8.02	02/25/07
Tiff Viewer Plug-in - Free Version	8.13	09/04/08
ModemWeasel	2.00	8/01/02