DEVELOPER NEWSLETTER

BLACK ICE SOFTWARE

Beware of Falling Prices   See Page 2 for details...

New Black Ice Printer Driver Features

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Silent Installation

The Black Ice Printer Drivers allow developers to utilize cutting edge document conversion and image capturing technology to incorporate into their developed application or service. The Resource Toolkit shipped with every Black Ice printer driver includes three sample installation projects to assist developers with installing and distributing the Black Ice printer drivers. These samples include an Install Shield, MSI, and Visual Basic sample installation.

The latest release of the Black Ice printer drivers include an enhanced version of the Visual Basic installation sample which allows the installation to be run silently. Silent installations are particularly useful for mass distribution and/or network wide distribution of applications.

To run the VB install silently, simply call the installation from a command prompt and use a "/s", for example:

C:\setup.exe /s

This will install the Black Ice printer driver on the system without displaying any windows or dialogs.

Enhanced AutoPrint Controls coming in September!

Contact **sales@blackice.com** or visit **www.blackice.com** for details

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ePrintAnywhere Features & Benefits for Developers

Last month Black Ice Software announced the release of the new ePrintAnywhere application, designed to manage terminal server printing for both terminal server clients and administrators. Last month's article provided an overview of ePrintAnywhere, this month we will focus on the features and benefits of ePrintAnywhere, including ways that Black Ice developers can benefit from using ePrintAnywhere.

ePrintAnywhere Features:

Fast printing - ePrintAnywhere is based on the industry leading Black Ice printer drivers and the elapsed time from pressing print from the remote client to the time the print job is delivered to the client printer is faster than any other product on the market.

Version Number in Devmode

To assist developers with deploying the Black Ice printer drivers as part of their application, the Black Ice printer drivers now include the printer driver version number in the printer's devmode. With this new addition, developers can call the new Get-DriverVersion function/method from the BlackIceDevmode controls to query the version number of the currently installed Black Ice printer driver. By checking the version of the currently installed driver, developers can determine if the Black Ice printer driver should be uninstalled in order to install a newer version of the driver.

Maintenance Subscribers should contact the Black Ice Sales department directly to request their free upgrade to the latest Black Ice printer driver release.

Configuration Free, Install and forget - ePrintAnywhere automatically configures itself to match the target printer settings, including color settings, resolution, orientation, etc. Neither users nor system administrators need to worry about configuring a thing. ePrintAnywhere is compatible with any available printer, including network printers, USB printers, multi function units, fax printers, and more.

Automatic Bandwidth Optimization - ePrintAnywhere automatically minimizes the amount of data sent between the server and the client to keep bandwidth requirements to a minimum.

Definable Printer Naming - ePrintAnywhere automatically assigns a straightforward naming convention to associated client printers. This allows users to quickly and easily locate their desired printer. Additionally, system administrators can customize the naming conventions used to meet their specific needs

RDP and ICA Support - ePrintAnywhere includes identical support for both RDP and ICA protocols, providing support for standard Microsoft Terminal Server systems in addition to supporting Citrix systems..

Concise printer mapping - ePrintAnywhere users will automatically see only their printers. No need to worry about accidentally printing to a different users printer, ePrintAnywhere simplifies the entire printing process. ePrintAnywhere even allows system administrators to control how many printers their clients can map.

ePrintAnywhere benefits for Software Developers

Developers using the Black Ice printer drivers can take advantage of ePrintAnywhere for use with their applications:

Fax Applications - With ePrintAnywhere installed, users on a terminal server system can send print jobs from the terminal server to their local virtual fax driver (Black Ice printer driver or other fax driver) to initiate faxing.

Document Imaging/Archival - ePrintAnywhere can print from the terminal server system to your local document management driver (Black Ice printer driver or other driver) to archive the file from the terminal server system.

Print Redirection - Print from the Terminal Server system via ePrintAnywhere to a Black Ice printer driver with print redirection enabled. This allows the printing user to create a local copy of the file (TIFF, JPEG PDF, etc.) from the terminal server system and redirect the print job to additional printers.

To download a fully functional evaluation version of the new ePrintAnywhere, please visit www.ePrintAnywhere.com

Distributing Black Ice Imaging Components through the Internet

When using the Black Ice Imaging Toolkits for web based applications, the most direct way to provide your users with the required Black Ice Imaging components is through a CAB file. Developers can create CAB files containing just the components that they require for their web based application to run from the client machine. The user simply navigates to the URL of your web based application and will be prompted to download the cab file. Upon completion of the download, the CAB file will automatically copy and register the contents and your user will be immediately ready to use your application.

Creating a custom CAB file for your application can be easily accomplished by performing the following steps:

1. Create an INF file

The INF file is a text file that specifies the files (such as DLLs or other OCXs) that need to be present or downloaded for your control to run. An INF file allows you to bundle all the needed files in one compressed CAB file. By default, files with the same version numbers as existing files on the user's hard disk will not be downloaded.

```
[version]
signature="$CHICAGO$"
AdvancedINF=2.0

[Add.Code]
BiDib.ocx=BiDib.ocx
BiDib.dll=BiDib.dll

[BiDib.ocx]
file-win32-x86=thiscab
clsid={D2797899-BE27-4CDB-892F-4FDC26EA9BA9}
FileVersion=10,4,4,0
RegisterServer=yes
DestDir=11

[BiDib.dll]
file-win32-x86=thiscab
FileVersion=10,4,4,0
DestDir=11
```

The [version] section defines the version of the INF file used.

The [Add.Code] section is composed of a list of all of the files that are included in the CAB file.

After the [Add.Code] section is a listing of the details for each file to be included in the CAB file. If a file doesn't exist already on the system, it will be downloaded from the CAB file created with the INF. "thiscab" is a keyword meaning the CAB containing this INF.

"file-win32-x86" means that the CAB file is specific to x86 platforms.

The "clsid" is the CLSID of the control to be installed.

You can get the version number of a file by right clicking the file

and selecting Properties and then select the Version tab. If the file on the system is an older version of the file in the CAB, it will be replaced.

RegisterServer indicates whether or not to register the component on the target system. In order to use any of the Black Ice ActiveX controls from a web page, the control must be registered. Please note that the Black Ice DLLs do not have to be registered.

The "DestDir" is the directory where the file will be copied: 11 specifies the system directory WINDOWS/SYSTEM or WINNT/SYSTEM32.

2. Build the CAB file

Cab files can be built by running the CABARC Utility. The CABARC utility is available from the Platform SDK. CABARC should be run from the directory containing the INF, OCX, and DLL files. The files should be listed on the command line in the same order as listed in the INF file. For example

```
C:\Black Ice\ CABARC -s 6144 n
BlackIce.CAB BiDib.ocx BiDib.dll
BlackIce.INF
```

Running CABARC with the above parameters will create a CAB file called BlackIce.CAB.

Fax C++/ActiveX News: Updated Brooktrout Drivers

Black Ice Software has recently released an updated version of the Fax C++/ActiveX which includes the latest Brooktrout drivers, Version 4.9.0.1. The updated drivers from Brooktrout resolve some connection/transmission issues with Brooktrout hardware.

The latest Fax C++/ActiveX release, version 11.30, is available free of charge to current Fax C++/ActiveX customers, please contact the Black Ice Sales department directly to request your free upgrade at sales@blackice.com.