

# November Developer Newsletter

November 2007

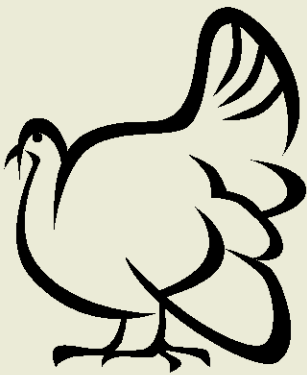
Volume 12, Issue 11

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## Why Can't I Use Multiple Instances of Message Capture at the Same Time?

If multiple Message Capture samples are running at the same time on the same machine, only one instance is getting messages from the printer driver. This is normal behavior, because the Message Capture sample doesn't send forward

messages, so the second Message capture won't get any message from the printer driver. Let's see the following situation on an XP operating system: *User1* starts the PIPE Message Capture Sample, and switches to *User2*. If

*User2* prints, all messages are received to *User1* instead of *User2*. *User2* will only get messages if *User1* closes the PIPE Message Capture Sample first.

## How to Set Common Printer Driver Settings Depending on a Physical Printer

There can be cases when you want the exact same output with the Black Ice printer as from a physical printer in your office without using printer redirection. For example:

1. You print a word document to a physical printer in your office and to the Black Ice Color printer
2. Later, you print the jpg file generated by the Black Ice Color printer driver to the same physi-

cal printer as before. You want to get the same content, pixel for pixel, on both printed papers.

To create the exact same output you need to set the common settings of the Black Ice printer depending on the physical printer being used. The following steps on page 2 show you how to set the printer driver programmatically in C++:

For the entire source

code, see the *TransferSettings* function of the "Setup Redirect Printing" C++ Sample in the printer driver resource toolkit. If you call the *TransferSettings* function before printing to the Black Ice printer, the Black Ice printer sets its settings depending on the physical printer. If you then print the JPG to the same physical printer, the printing output will be the same as the document you printed directly to the physical printer.

Source Continued on Page 2



**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.

### Setting Common Printer Settings from Page 1

#### 1. Open the physical printer and get printer info structure:

```
// ...
// Open the printer
if (!OpenPrinter(szSelectedPrinterName, &hPrinter, NULL))
{
    wsprintf(szError, TEXT("Error opening '%s', Error %d"), szSelectedPrinterName, dwError);
    AfxMessageBox(szError);
    return;
}
// ...
// Get printer info
bFlag = GetPrinter(hPrinter, 2, (LPBYTE)pi2, dwNeeded, &dwNeeded);
// ...
```

#### 2. Get physical printer settings

```
// ...
// Get physical printer common settings
nPaperSize      = pi2->pDevMode->dmPaperSize;
nOrientation    = pi2->pDevMode->dmOrientation;
nPaperWidth     = pi2->pDevMode->dmPaperWidth;
nPaperHeight   = pi2->pDevMode->dmPaperLength;
dwXDPI         = pi2->pDevMode->dmPrintQuality;
// ...
```

#### 3. Set Black Ice printer

```
// ...
if (nPaperSize)
{
    SetPaperSize(nPaperSize, pBlackIceDevMode);
    SetOrientation(nOrientation, pBlackIceDevMode);
    DisableRotatePaper(pBlackIceDevMode);
}
else
{
    SetPaperSize(DMPAPER_VARIABLE, pBlackIceDevMode);
    SetPaperWidth(nPaperWidth, pBlackIceDevMode);
    SetPaperLength(nPaperHeight, pBlackIceDevMode);
}

SetXDPI(dwXDPI, pBlackIceDevMode);
SetYDPI(dwYDPI, pBlackIceDevMode);

SetPagePhysicalOffsetX(dwXOffset, pBlackIceDevMode);
SetPagePhysicalOffsetY(dwYOffset, pBlackIceDevMode);
// ...
```

#### 4. Save the Black Ice devmode structure:

```
// ...
if (!SaveBlackIceDEVMODE(m_szBlackIcePrinter.GetBuffer(MAX_PATH), pBlackIceDevMode))
{
    DWORD e = BlackIce_GetLastError();
    AfxMessageBox(TEXT("Error saving the printer settings."));
}
else
{
    AfxMessageBox(TEXT("The printer settings were successfully saved"));
}
// ...
```

## How to Set Parameters for the Start Application Feature Programmatically in C#

You can customize the parameter list of the start application feature easily using the *SetStartApplicationParamCode* method of the *BlackIceDEVMODE.ocx*. You can pass a maximum of 7 command line arguments to a started application: *document name*, *group file name*, *printer name*, *number of pages*, *multipage*, *orientation* and a *custom text parameter*. You can enable/disable and set the order of the command line parameters with the *SetStartApplicationParamCode* method. Every parameter has a code:

document name	1
group file name	2
printer name	3
number of pages	4
multipage	5
orientation	6
customparameter	7

If you want to disable a parameter, the parameter code is the second parameter. If you want to set a parameter's position in the argument list, the parameter code is the third. It could be a little confusing, but this newsletter should help make it clear.

To disable a parameter (for example *document name*), you should call the *SetStartApplicationParamCode* like this:

```
// 1 : document name (parameter code)
// 0 : disable parameter
BlackIceDEVMODE1.SetStartApplicationParamCode(BlackIceDEVMODE, 1, 0);
```

To set the second parameter to *group file name*, you should call the *SetStartApplicationParamCode* like this:

```
// 1 : parameter index (zero based integer)
// 2 : group file name (parameter code)
BlackIceDEVMODE1.SetStartApplicationParamCode(BlackIceDEVMODE, 1, 2);
```

The following C# example demonstrates how to pass a *custom text* (in this example "test param") to the start application as the first command line argument, and the *printer name* as the second parameter:

```
// Enable pass parameters
BlackIceDEVMODE1.EnablePassParameters(pDEVMODE);
// Disable all parameters except custom parameter and printer name
// Document Name
BlackIceDEVMODE1.SetStartApplicationParamCode(pDEVMODE, 1, 0);
// Groupfile Name
BlackIceDEVMODE1.SetStartApplicationParamCode(pDEVMODE, 2, 0);
// Number of pages
BlackIceDEVMODE1.SetStartApplicationParamCode(pDEVMODE, 4, 0);
// Multipage
BlackIceDEVMODE1.SetStartApplicationParamCode(pDEVMODE, 5, 0);
// Orientation
BlackIceDEVMODE1.SetStartApplicationParamCode(pDEVMODE, 6, 0);

// The custom parameter will be the first and the only one
// 0: first parameter, 7: custom parameter
BlackIceDEVMODE1.SetStartApplicationParamCode(pDEVMODE, 0, 7);
// 1 : second parameter index
// 2: Printer name
BlackIceDEVMODE1.SetStartApplicationParamCode(pDEVMODE, 1, 3);
// Set custom parameter
BlackIceDEVMODE1.SetCustomStartAppParameter(pDEVMODE, "test param");
```

## Time to upgrade?



## Latest Version Numbers

### Printer Drivers

### Impact Products

Vista / XP Color, ColorPlus, EMF, Mono, PDF	10.04	7/13/07
2003 Terminal Servers / Citrix Color, ColorPlus, EMF, Mono, PDF	10.04	7/13/07

Impact Fax Server	8.01	8/24/07
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
Document Imaging SDK/ActiveX	10.84	9/12/07
Image PDF Plug-in	10.84	9/12/07
PDF SDK/ActiveX Professional	2.0	6/11/07
Annotation SDK/ActiveX	10.84	9/12/07
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

Print2Email	7.00	7/9/07
Tiff Viewer Plug-in - Complete	8.06	8/24/07
Print Monitoring Server	4.00	8/30/07
Print2RDP	4.10	6/20/07
Print2FTP	2.02	8/15/06

### 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