DECEMBER DEVELOPER NEWSLETTER

Black Ice Software

New ColorPlus Printer Driver Features

The new ColorPlus printer driver (version 10.30) has two new features: inverted images and horizontally or vertically flipped images.

Invert Image

Using this feature your documents can be printed in inverted color. The invert feature is allowed for all monochrome file formats for example TIFF Group 4, Bitmap or GIF. The Invert feature can be set directly in the *Printing Preferences* of the ColorPlus driver at the *File Formats* tab (*See the image on the following page*). Of course, the invert feature is adjustable with the BlackIceDEVMODE DLL and OCX using the following methods: IsInvertImageEnabled, EnableInvertImage, DisableInvertImage. For more information about the methods please see the

How to Resolve Error 126 in a PDF Printer Driver Install

If the customized PDF printer driver install gives error 126, in most cases some printer driver or dependent files are missing from the target computer. The error 126 means "The specified module could not be found". This error can occurr because the PDF printer driver port monitor (BuPMonNT.dll) uses redistributed visual C++ files. If the redistributed files are missing from the target computer the printer driver can't be installed. The installer project should install the redistributed files before installing the printer driver. You can determine which files are missing with Dependency Walker. The Dependency Walker is a utility for checking the file dependencies. The redistributable Visual C++ files are downloadable free from Microsoft's website.
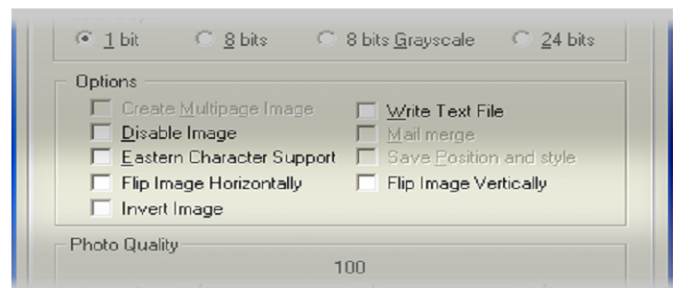
resource toolkit manual. The invert image feature can be set at installation time using the printer driver's INI file. For more information see the BLF_INVERTIMAGE flag.

Flip Image

Flipped horizontally or/and vertically images can be printed with the ColorPlus printer driver. This feature is available for all file formats including PDF. The flipping is adjustable at the *File Formats* tab (*see the image at the end of the article*), through the printer driver's INI file and through the BlackIceDEVMODE methods. In the printer driver INI file the BLF_FLIPHORIZONTAL and BLF_FLIPVERTICAL flags can be used for specifying the flipping. The following methods are available in the BlackIceDEVMODE DLL and OCX for setting the flipping feature programmatically: IsFlipHorizontalEnabled, EnableFlipHorizontal, DisableFlipHorizontal, IsFlipVerticalEnabled, EnableFlipVertical, DisableFlipVertical.

How to Restrict the Printer Driver Resolution to 300x300

If you want to restrict the DPI setting of the printer driver you can do the following:

•Hide the resolutions drop down box in the printing preferences. If you hide the resolutions drop down box in the printing preferences, the users can't change the DPI setting manually. You can hide any control on the dialog using the resource editor of Visual Studio. The source of the resource dll is available in the printer driver RTK.

•Set the default DPI to 300x300 at installation time. The default printer driver DPI can be set easily through the printer driver INI file. For example:

[Default Settings]
X DPI=300
Y DPI=300

Note: If you set the default DPI in the printer driver's INI file the users can't change the DPI by clicking on the 'Restore defaults' button in printing preferences.

How to Create a New PDF with the PDF SDK Low Level Interface

Before writing any code, one has to include one of the following headers into a C++ probject: BiPDFW.h, BiPDFRW.h and add the following libraries to the linker inclusion list: BiPDFW.lib, BiPDFRW.lib.

The first step is to create a CPDF object that symbolizes a PDF document:

```
CPDF pdf;
```

The second step is to set the metadata (title, author, subject, keywords, creator application):

```
pdf.SetTitle("Title");
pdf.SetAuthor("Author");
pdf.SetSubject("Subject");
pdf.SetKeywords("keyword1, keyword2");
pdf.SetCreator("Creator");
```

The third step is to create and insert a new page into the document:

```
CPDFPage page = pdf.AddPage(700.0, 900.0);
```

The fourth step is to load the content into the PDF page. In this sample we set the used font to Times, set the alignment to center and write a line of text onto the page. We can use the GDI handles with the PDF SDK as we can see in this case (CPDFPage::SelectObject receive GDI objects).

```
CFont fontTimes;

fontTimes.CreateFont
(50,0,0,0,400,0,0,0,DEFAULT_CHARSET,OUT_TT_PRECIS,CLIP_TT_ALWAYS,CLEARTYPE_QUALITY,FIXED_PITCH |
FF_MODERN,"Times");

page.SelectObject(fontTimes);
page.SetTextAlign(TA_CENTER);
page.TextOut(700 / 2, 20, "Hello World!", 12);
```

The fifth step is to set the saving parameters such as the encryption, compression and font embedding and save the document. These settings are optional. If one doesn't set these parameters, the SDK uses the default settings.

```
// set encryption
// set compression
// set font embedding

pdf.SavePDFToFile("c:\\hello.pdf");
```

This code snippet saves a single page PDF document to the specified place. The page contains the "Hello World!" line of text. The metadata contains the set words. The creation of a new PDF document is this easy with the PDF SDK.

Time to upgrade? Latest Version Numbers

Development Tools

Printer Drivers	10.30	12/01/08
Fax & Voice C++/ActiveX	12.50	06/18/07
Document Imaging SDK/ActiveX	10.95	04/25/08
Image PDF Plug-in	10.95	04/25/08
PDF SDK/ActiveX Professional	2.50	11/01/08
Annotation SDK/ActiveX	10.95	04/25/08
Image SDK/ActiveX	10.95	04/25/08
Tiff SDK/ActiveX	10.95	04/25/08
Cover Page Generator SDK/ActiveX	10.95	04/25/08
Barcode SDK/ActiveX	5.10	05/07/07

Impact Products

Impact Fax Server	8.03	05/21/08
Impact Fax Broadcast	6.62	07/02/08
Impact ColorFax	8.03	02/25/07
Print2Email	7.13	04/25/08
Tiff Viewer Plug-in - Complete	8.13	09/04/08
Print Monitoring Server	4.10	03/14/08
Print2RDP	4.81	09/04/08
Print2PDF	2.15	
FileMorph	2.15	05/20/08
FileMorph DS	2.12	04/25/08

Free Software

Impact ColorFax Lite	8.03	02/25/07
Tiff Viewer Plug-in - Free Version	8.13	09/04/08
ModemWeasel	2.00	8/01/02