# April Developer Newsletter

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## Load an Image PDF into DIB

The PDF file doesn't contain any DPI information, so if one loads an image PDF into a DIB by calling the LoadPDFIntoDIB function, the DPI information in the DIB will be (0, 0) which is wrong. This could cause problems in several cases. For example if one wants to add annotations to the DIB it creates an erroneously sized object because some functions of Annotation SDK use the DPI information. One can solve this problem by setting the DPI to (72, 72) which is the default DPI in a PDF document.

The following code snippet shows a short C# snippet loading a PDF page into a DIB and setting the DPI values:

```
m_hDib = CurrentView.BiPDF.LoadPDFIntoDIB(fileName, 0);
CurrentView.BiDIB.SetDIBHorizontalDPI(m_hDib, 72);
CurrentView.BiDIB.SetDIBVerticalDPI(m_hDib, 72);
```

## How to Configure PDF settings Through the Printer Driver's INI File

If you want to specify the PDF settings automatically during install or you want to specify the default PDF settings easily you can do it using the INI file of the printer driver. You can set the new PDF settings through INI file:

```
[PDF Settings]
Document Encryption=
Document Security Flag=
Embed all fonts=

[PDF Force Font Settings]
Count=
Font 1=

[PDF Forbidden Font Settings]
Count=
Font 1=
```

You can set the security encryption length using with Document Encryption. The available values of Document Encryption are:

```
0: No encryption
1: 40 bit encryption
```

The Document Security Flag sets the security settings with one flag. Available values:

```
0: There are no security settings to be set
1: Allow users to print the PDF document
```

# Using BiPrint.ocx in JavaScript

There were some questions about using the BiPrint.ocx in a HTML page. The PrintDIBPageEx method in the BiPrint.ocx prints DIBs from an HTML page. The PrintingScaleLeft, PrintingScaleTop, PrintingScaleRight, PrintingScaleBottom properties specify the scaling factor of the printing, the parameters set the bitmap for printing, the current page number and the position of the printing. The other properties of the printing could be set with the PrepareToPrint method.

The following code snippet shows how to use the BiPrint.ocx in an HTML page with JavaScript:

```
<HTML>
<HEAD>
...
<SCRIPT language="JavaScript">

  ...
  function OnPrint()
  {
    if (BIDISP.hDib > 0)
    {
      BIPRINT.PrepareToPrint(0, "test", 1, 1, true, false, false, true, false, false, false, true, false);
      BIPRINT.PrintingScaleLeft = 1;
      BIPRINT.PrintingScaleTop = 1;
      BIPRINT.PrintingScaleRight = 1;
      BIPRINT.PrintingScaleBottom = 1;
      BIPRINT.PrintDIBPageEx(BIDISP.hDib, 0, 0, 0);
      BIPRINT.EndPrint();
    }
  }
</SCRIPT>
</HEAD>
<BODY>
...
<object id="BIPRINT"
width=1
height=1
classid="CLSID:3D806C87-EE83-46D6-AB30-12D62715D8A1"
CODEBASE="http://www.blackice.com/DOCIMG_HTML_SAMPLE/tiff.cab"
></object>
...
</BODY>
</HTML>
```

There are two important parts of this code:

The <object> tag in the body section links to the tiff.cab file, which contains the necessary DLL and OCX files. This cab file will be downloaded and installed by the web browser. The ID of this object will be BIPRINT, and one can refer to it by its ID.
The OnPrint javascript function prepares, starts and ends the printing process. Invoke it in order to print.

The full HTML sample application can be found at the following website:
http://www.blackice.com/DOCIMG_HTML_SAMPLE/PrintImage.htm

```
2: Allow users to copy out text and graphics
4: Allow users to fill in form fields and modify comments
8: Allow users to edit the PDF document
```

You can combine these values. For example if you want to enable printing and modifying comments of the PDF document, the Document Security Flag should be set to 9 (8 + 1).

If Embed all fonts is 1 (default value), all fonts will be embedded in the PDF document except the 14 fonts in the PDF standard.

You can enumerate the fonts to force to be embedded in the PDF Force Font Settings section. The Count value contains the number of fonts to force to be embedded. For example if you want to force the Modern and Symbol fonts to be embedded:

```
[PDF Force Font Settings]
Count=2
Font 1=Modern
Font 2=Symbol
```

You can enumerate the fonts to forbid to be embedded also. For example if you want to forbid to be embedded the Modern and Symbol fonts:

```
[PDF Forbidden Font Settings]
Count=2
Font 1=Modern
Font 2=Symbol
```

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## How to Configure the PDF Settings in the Black Ice Printer Driver

One of the ways to configure the PDF settings in the printer driver is using the BlackIceDEVMODE. The new version (**v 2.21**) of BlackIceDEVMODE dll and ocx contains methods for getting/setting PDF settings programmatically. Here is the sort list of the methods. For more information please see the printer driver resource toolkit manual.

```
GetPdfTitle                       SetPdfTitle
GetPdfAuthor                      SetPdfAuthor
GetPdfSubject                     SetPdfSubject
GetPdfKeywords                    SetPdfKeywords
GetPdfUserPassword                SetPdfUserPassword
GetPdfOwnerPassword               SetPdfOwnerPassword
GetPdfStreamCompression           SetPdfStreamCompression
GetPdfColorImgCompression         SetPdfColorImgCompression
GetPdfMonoImgCompression          SetPdfMonoImgCompression
GetPdfJPEGQuality                 SetPdfJPEGQuality
GetPdfEncryption                  SetPdfEncryption
GetPdfSecurityFlags               SetPdfSecurityFlags
GetPdfDefEmbeddedFont             SetPdfDefEmbeddedFont
GetPdfForceEmbedFont              SetPdfForceEmbedFont
GetPdfForceEmbedFontCount         SetPdfForceEmbedFontCount
GetPdfForbidEmbedFont             SetPdfForbidEmbedFont
GetPdfForbidEmbedFontCount        SetPdfForbidEmbedFontCount
```
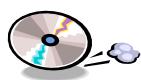
# Time to upgrade?  Latest Version Numbers

## Printer Drivers

| | | |
|---|---|---|
| **Vista / XP**<br>Color, ColorPlus, EMF, Mono, PDF | 10.11 | 03/20/08 |
| **2003 Terminal Servers / Citrix**<br>Color, ColorPlus, EMF, Mono, PDF | 10.11 | 03/20/08 |

## Fax, Voice, and Image Toolkits

| | | |
|---|---|---|
| **Fax & Voice C++/ActiveX** | 12.50 | 6/18/07 |
| **Document Imaging SDK/ActiveX** | 10.94 | 03/25/08 |
| **Image PDF Plug-in** | 10.94 | 03/25/08 |
| **PDF SDK/ActiveX Professional** | 2.0 | 6/11/07 |
| **Annotation SDK/ActiveX** | 10.94 | 03/25/08 |
| **Image SDK/ActiveX** | 10.94 | 03/25/08 |
| **Tiff SDK/ActiveX** | 10.94 | 03/25/08 |
| **Cover Page Generator SDK/ActiveX** | 10.94 | 03/25/08 |
| **Barcode SDK/ActiveX** | 5.10 | 5/7/07 |

## Impact Products

| | | |
|---|---|---|
| **Impact Fax Server** | 8.01 | 8/24/07 |
| **Impact Fax Broadcast** | 6.20 | 03/03/08 |
| **Impact ColorFax** | 8.02 | 02/25/07 |
| **Print2Email** | 7.02 | 01/10/08 |
| **Tiff Viewer Plug-in - Complete** | 8.11 | 04/03/08 |
| **Print Monitoring Server** | 4.10 | 03/14/08 |
| **Print2RDP** | 4.10 | 6/20/07 |
| **Print2FTP** | 2.02 | 8/15/06 |
| **FileMorph** | 2.11 | 03/25/08 |
| **FileMorph DS** | 2.11 | 03/25/08 |

## Free Software

| | | |
|---|---|---|
| **Impact ColorFax Lite** | 8.02 | 02/25/07 |
| **Tiff Viewer Plug-in - Free Version** | 8.11 | 04/03/08 |
| **ModemWeasel** | 2.00 | 8/01/02 |