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1. About PDFNet SDK

PDFNet SDK is a high-quality, industry-strength PDF library meeting requirements of the most demanding and diverse applications. Using PDFNet SDK you can write stand-alone, cross-platform, and reliable commercial applications that can read, write, create, edit, print, convert, and display PDF documents. PDFNet SDK is available as a .NET component, and as a cross-platform C/C++ library with Java, PHP, Ruby, Python and Objective-C interfaces, available on a wide range of platforms such as Windows, WinRT, Windows Mobile, Linux, Solaris, Mac OS X, iOS, Android, etc. For more information, please visit us at www.pdftron.com.

1.1 SDK Overview

- Lib Folder containing PDFNet libraries/components.
- CosEdit An evaluation version of CosEdit, a stand-alone, low-level PDF editor. Using the evaluation version the users can inspect the low-level structure and contents of PDF documents.
- **Doc** A folder containing PDFNet API Reference Manual (as JavaDoc, C/C++ Reference, WinHelp, etc).
- Samples Folder containing PDFNet sample projects.
- legal.txt Legal and copyright information.
- license.pdf CPU license agreement and warranty for this product.
- **gettingstarted.pdf** This file.
- whatsnew.html Document describing the latest changes and additions to PDFNet SDK.

2. Choosing the Correct PDFNet library

The PDFNet SDK comes in a variety of versions to best suit your needs. For example, if you are working in a windows environment we provide .Net 2 and .Net 4 (with WPF) libraries, that allow you to develop in VB or C#. If you are developing a Unix or OSX platform, or need to support multiple platforms, we provide a native C/C++ version, that also works with Java, PHP, Python, Ruby and Objective-C interfaces.

For the latest available libraries please see http://www.pdftron.com/pdfnet/downloads.html.

3. Getting Started

3.1 Creating a simple PDF-to-image application

Here we describe important steps to using PDFNet, by creating a very simple program that converts the first page of a PDF to an image.

- 1. Open Visual Studio and create a new Win32 Console Application.
- 2. Add the *PDFNetC\Headers* folder to your 'Additional Include Directories'.
- 3. Add the *PDFNetC\Lib\PDFNetC.lib* file to your 'Additional Dependencies'.
- 4. Copy *PDFNetC.dll* to the output directory. If the output directory doesn't exist you may need to compile the project to generate it.
- 5. Verify that the platform target (Win32 or Win64) of the application matches the PDFNetC.dll architecture.
- 6. Add include header statements to beginning of CPP file.

```
#include <iostream>
#include <PDF/PDFNet.h>
#include <PDF/PDFDoc.h>
#include <PDF/PDFDraw.h>
```

7. Add using namespace statements.

```
using namespace pdftron;
using namespace PDF;
```

8. Add Initialization call. This needs to be called before any other calls to PDFNet and should only be called once in your main() or OnAppStartup() functions.

```
PDFNet::Initialize();
```

9. Load arguments into UString object, as this will handle the different possible character types possible with Windows C++ projects.

```
UString pdf_filepath(argv[1]);
UString image_filepath(argv[2]);
```

10. Load an existing PDFDoc and initialize the default security handler. To open password protected PDFs see the Encryption sample.

```
PDFDoc doc(pdf_filepath);
doc.InitSecurityHandler();
```

11. Export PDF to image.

```
PDFDraw draw;
draw.Export(doc.GetPage(1), image_filepath);
```

- 12. Wrap everything in try / catch block.
- 13. Add PDFNetException catch.

```
catch(pdftron::Common::Exception& ex)
{
    std::cout << ex.GetMessage() << std::endl;
}</pre>
```

14. Run program, where the first command line argument is a PDF file, and the second is the name of the image. The PDFDraw function will automatically match the image format to that of the file name extension provided by the user. For example, "app.exe input.pdf output.jpg" will result in the first page of input.pdf being converted to a JPEG file.

3.1.1 Common Questions

Where should I call the PDFNet.Initialize()?
A question regarding PDFNet.Initialize() and Terminate().

Error: error LNK2019: unresolved external symbol __imp__TRN_PDFNetInitialize. **Solution**: You probably have mixed up the 32bit and 64bit versions of PDFNetC. Make sure that the DLL architecture matches the project platform setting.

Error: The evaluation version encountered an error in your system configuration. Please contact customer support at: sup...@pdftron.com. No reg. write rights **Solution**: See *Questions* in the *Demo/Trial Period Prerequisite* section below.

Error: The application was unable to start correctly.

Solution: Same as above, but at runtime you have the wrong PDFNetC.dll being loaded.

3.2 Deploying Your Application

Now that your new project is ready for others to use, it is time to distribute it.

3.2.1 Dependencies

Our PDFNetC libraries are self-contained and have no external dependencies.

3.3 Finished!

Congratulations, you are now ready to deploy the project to your target/customer computers.

4. Next Steps

4.1 Demo / Trial Mode

PDFTron Systems offers a free, 60-day evaluation of PDFNet. Once the 60-day evaluation period expires, the library will start generating an exception/error indicating that the evaluation period has expired and the library will stop functioning.

4.1.1 Elevated Permissions Prerequisite

While you try out PDFNet without a license key, it is running in demo mode. One side effect of this is that your application will need read/write access to the registry. This is typically a problem only when you run the app in an environment that requires elevated permissions, such as when developing a Windows service or a server application.

4.1.2 Example: IIS Server

If you are trying to run your demo on an IIS server, you can change the Application Pool's identity to a User Account with read/write access to the registry.

- 1. Go to IIS Manager, select the web server, and then Application Pools.
- 2. Click on the Application Pool you are using from the list, then on the Actions panel, under Edit Application Pool, click Advanced Settings...
- 3. In the Advanced Settings dialog, go to the Process Model section and click on the Identity to change it.
- 4. Once the Application Pool Identity dialog shows up, select Custom account:, then click Set...
- 5. Enter the user account information in the Set Credentials dialog box. Note: you may have to specify the domain of the user (i.e. MyServerDomain\MyUserAccount).
- 6. Click OK until all dialog boxes are closed.

4.1.2 Common Questions

How do I resolve error in your system configuration ... No reg. write rights?

Going around "No reg. write rights" exception during PDFNet SDK demo evaluation?

How do I resolve "The evaluation version encountered an error... No reg. write rights"?



4.2 Language Bindings

The PDFNetC library can also be accessed from alternative languages, such as Java, PHP, Ruby, Python, and Objective-C.

4.2.1 Minimum Versions

Be sure to check out the *libinfo.txt* file in the PDFNetC\Lib folder as it shows what are the minimum version numbers of each language that are required to work with PDFNetC. Note that all the language bindings still need access to PDFNetC.dll to work.

4.2.2 Java

The PDFNetC library you download must match the Java JRE architecture (32 or 64 bit). See the following post for more detail.

 $\underline{https://groups.google.com/forum/?fromgroups\#!searchin/pdfnet-sdk/pdfnetc\$20java/pdfnet-sdk/e-izERuN3Ic/UuGZvPWp8JQJ$

4.2.3 PHP

Before trying PHP be sure to read the additional PHP documentation in the PDFNetC/Samples folder.

4.2.4 Python

Read the libinfo.txt file PDFNetC.dll for important information when using Python 2.

4.3 Servers

There are some particular issues to consider when running your application in a server environment. Below are some of the most common situations.

4.3.1 Visual Studio Web Server

If you get a "BadImageFormatException, incorrect format" error, while trying to use the Web Server that comes with Visual Studio, this is because VS Web Server is 32bit only and cannot be used with any 64bit libraries. Please see this forum posting for solutions. https://groups.google.com/forum/?fromgroups#!searchin/pdfnet-sdk/iis\$20default\$2032/pdfnet-sdk/Op5m-2VH2ww/OkkQHysZWHgJ

4.3.2 IIS Servers

You may also encounter BadImageFormatException, incorrect format, exceptions when using PDFNet on IIS. One possible cause can be that you need to match the IIS 'Enable 32-bit application' setting to which version of PDFNet (32 or 64 bit) that you are using. Finally be aware that different versions of IIS default to different versions of the .Net framework, so you also need to match that with the version of PDFNet you are using (.Net 2 or 4). For more info see: https://groups.google.com/forum/?fromgroups#!searchin/pdfnet-sdk/iis\$20default\$2032/pdfnet-sdk/KjFgCY9oNPM/A6rG6IIWR4UJ





The following online article contains lots of important information regarding converting files to and from PDF in a server environment. This document also covers MS Office Interop and virtual printer related issues.

http://www.pdftron.com/pdfnet/faq_files/Converting_Documents_in_Windows_Service_or_ASP.NET_Application_using_PDFNet.pdf

4.4 Adding Features

When you decide to add new features, be sure to start by checking out the relevant Sample project: http://www.pdftron.com/pdfnet/samplecode.html

After that, please check out our forums for additional information not covered in the samples. https://groups.google.com/forum/#!forum/pdfnet-sdk

4.5 Getting a Production License

Now that you've built your application, and tested it in a deployment environment, you might be ready to purchase a license. Please take a look at the following links for steps required to obtain the production license.

Options: http://www.pdftron.com/store/licensing.html

FAQ: http://www.pdftron.com/store/faq.html
Store: http://www.pdftron.com/store/index.php

4.5.1 Using the License

Once you purchase a license, you will receive a license key that you can use to initialize PDFNet in your application code.

PDFNet::Initialize("MyCompany:OEM:1234");

Initializing PDFNet with the license key will also remove the requirement to run your demo application with elevated rights in a server environment.

4.5.2 Common Questions

Error: Bad License Key. PDFNet SDK will work in the demo mode. For more information please see PDFNet FAQ or contact support@pdftron.com.

Solution: The license key was copied incorrectly. First, make sure no extra white space was added to the beginning or end of the string. Finally, make sure you are copying the entire license key as it was sent to you. Exception when using license key

Error: Your AMS expired on.... To upgrade to this version of PDFNet SDK, please renew your AMS subscription.

Solution: Your license is out of date and cannot use newer versions of PDFNet. Either return to using an earlier version, or contact sales at pdftron.com to renew.

PDFTron watermark still appears in generated documents after license purchase?



5. Getting Help

5.1 SDK Samples

First, checking the available samples is a good place to get help. The following link provides a brief summary of the samples that come with your PDFNet package. http://www.pdftron.com/pdfnet/samplecode.html

5.2 Public Forum

Next, check the PDFNet SDK forums, as there are plenty of answers available already. Odds are someone else has already asked your question, but it just didn't make it into this document.

https://groups.google.com/forum/?fromgroups#!forum/pdfnet-sdk Otherwise, feel free to post questions to the forum.

5.3 Additional Resources

5.3.1 CosEdit Tool

Included with your download of PDFNet SDK is a trial version of a tool called CosEdit. This is a useful tool for viewing the actual content and structure of a particular PDF file.

5.3.2 Samples

Also included with your PDFNet SDK is a collection of samples that demonstrate most of the features available with PDFNet.

http://www.pdftron.com/pdfnet/samplecode.html

5.3.3 Links

FAQ: http://www.pdftron.com/pdfnet/faq.html

Introduction: http://www.pdftron.com/pdfnet/intro.html

Documentation (API References): http://www.pdftron.com/pdfnet/documentation.html

5.3.4 Technical Support

At PDFTron, we understand that good technical support is as important to our customers as our products themselves. Our technical support team consists of the same developers that build our products, work on new features and fix the bugs. This ensures that our customers receive accurate and to-the-point answers to their questions or problems.

If you think you have encountered a bug, or issue, with PDFNet, you can submit a ticket. Simply fill out the following form: http://www.pdftron.com/support/reportproblem.html