

# Adobe PDF Library SDK 9 Read Me

This document contains information on installing the Adobe PDF Library SDK, as well as general information regarding the release. In addition to this document, please read the PDF Library Overview for important information on developing with and using the PDF Library. See page 5 for installation instructions.

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## MAJOR UPDATES IN RELEASE 9

- Full Compatibility with Acrobat 9
- Support for Windows 64 bit platforms
- Leopard (Mac OS X 10.5) Compliance
- Ability to convert XPS documents to PDF (Win 32 and UNIX 32)
- Ability to flatten transparencies present in a PDF document (Win 32 and UNIX 32)
- Ability to set page level control of PDF documents while printing (Win)
- Support for rendering and printing of Reference XObjects in PDF documents
- Support for Unicode passwords
- Smaller embedded FontFile2 streams for TrueType fonts, resulting in smaller file size
- Callback for OPI Handler in **PDFLPrintDoc** API
- Support for longer passwords
- Improved page thumbnail quality
- Improved Postscript page independence
- New APIs for better error reporting
- Support for third party extensions to PDF 1.7
- Ability to control thin line enhancements in a document during PDF rendering
- Ability to use a custom defined CMap as the encoding for a font
- Printpdf sample has been modified to match Acrobat's Send By Range option (OFS=TRUE and SVM=TRUE), which is Acrobat's default printing option
- Fixed issues with the API **PDPPageMakeSeparations**. Added snippet in SnippetRunner command line utility on Windows and Mac

## KNOWN ISSUES

The following is a list of open issues in PDF Library SDK 9:

- **PDEContentSetDefaultColorSpace\_PEWCalls\_**, a function in the API Reference used for setting the default color space does not work. Instead, use **PDEContentSetDefaultColorSpace**
- **PDPrintParamsRec::reverse** does not work in **PDFLPrintDoc()** when exporting a PDF to PS. A valid workaround to ensure that the PDF is exported in reverse is to provide a Page range, where the starting and end pages in the range are the last page and the first page of the document, respectively
- All objects are always drawn even if we set something to "updateRect" in **PDPPageDrawContentsToWindowEx()**, **PDPPageDrawContentsToWindow()** and **PDPPageDrawContentsPlacedToWindow()**

## STATUS OF PRINT FUNCTIONALITY

- **PDFLPrintDoc()** honors only default values for tilingMode (kPDNoTiling)
- **emitShowPage** is not honored anymore. It is always true
- **emitDSC** is not honored anymore. It is always true
- **brokenCRDs** is not honored anymore. It is always false
- **incProcsets** is not honored anymore. It is always false
- Default value for **useSubFileDecode** is false. The SubFileDecode filter will always be emitted if printing in binary format
- **emitColorSePs** will be honored only when printing to a printer
- On setting transparencyQuality = 0, a PDF File with vector data will be rasterized. Set it to “80” for non rasterized output as in PDFL SDK 7.0
- For printing to a printer, the %%DocumentData DSC comment will only represent the output protocol of the printer and will not be dependent on the binaryOK parameter provided by the client
- The following callbacks are not supported in **PDDocPrintPages()**:
  - **EmitFont()**
  - **DataSourceString()**
  - **EmitPrologResolurce()**
  - **DocBegin()**
  - **EmitPageContents()**
  - **EmitPrologString()**
  - **EmitPSFontBegin()**
  - **GetFontVMUsage()**
  - **UndefineFont()**
- **PDFontDownloadContextCreate()** does not work. It always returns NULL

**NOTE:** USE OF **PDDocPRINTPAGES()** SHOULD BE AVOIDED; INSTEAD, HIGHER-LEVEL **PDFLPRINTDOC()** METHOD SHOULD BE USED

## GETTING STARTED

1. Install the PDF Library SDK as described below in the "Installation" section
2. Read the *PDF Library Overview*, which describes the PDF Library and development issues with the PDF Library
3. Examine, compile, and run the relevant code samples or snippets for your platform. The code samples and the SnippetRunner are in the PDFLSDK9/samples directory, which is created when you install the Library
4. On all platforms, read the comments in the source code before compiling and running the code sample to understand the functionality demonstrated by the sample
5. The following platforms, operating systems, and compilers are supported by PDFL SDK 9

| Platform            | Processor       | Operating System  | Compilers                        |
|---------------------|-----------------|---|----------------------------------|
| Windows 32 & 64 Bit | Intel           | Windows Vista (32 bit & 64 bit), XP (32 bit), 2008 Server | Microsoft Visual Studio 2005 SP1 |
| MAC 32              | PowerPC /Mactel | Mac OS X v 10.4.8, 10.5                                   | XCode 3.0                        |
| Sun Solaris 32      | Sparc           | Solaris 9   | gcc 4.1.0                        |
| IBM AIX 32          | RS/6000s        | AIX5.2  | gcc 4.1.0                        |
| Linux 32 Bit        | Intel           | Red Hat WS 4  | gcc 4.1.0                        |

**Important Note:** While it may be possible to use the library in other development environments, such use is not supported by Adobe. We have tested the PDF Library only with the compiler versions listed in the table above

# INSTALLATION

## All Platforms:

The following is the directory structure for all platforms:

/PDFLSDK9

```
  /Docs
  /Include
    /Headers
    /Source
  /Libs
    /Platform
  /Resource
  /Samples
    /samples_name
  /Plugins
    / Flattener
      /Include
        /Headers
      /Libs
        /Platform
      /Samples
    / XPS2PDF
      /Include
        /Headers
      /Libs
        /Platform
      /Resource
        /joboptions
      /Samples
```

Modify the MyPDFLibUtils.cpp file so that the folder lists passed to PDFLDataRec's dirList, cMapDirectory and unicodeDirectory members in the PDFLInit() via PDFLGetDirList, PDFLGetCMapDir, and PDFLGetUnicodeDir function calls correctly locate the font, CMap and unicode files on your system. This is needed for the samples fontembd and printpdf, and for any other samples that might require font, CMap or unicode files.

*Important Note:*

Samples are tested and built with the valid values in the PDFLDataRec structure. If you do not have the valid font, CMap or Unicode folders on your system, samples may crash or throw an exception. You must either install the font, CMap and unicode files in the correct folder or you must pass NULL to these members in order for the PDF library not to look for the fonts, CMaps or Unicode files.

**Macintosh Platform:**

1. Run the installer for the MacPDFL9SDK.dmg
2. By default, all of the libs are installed in the PDFLSDK9:Libs:Mac:AdobeXXX.framework folder, aliases or proper paths need to be set to ensure that the sample applications run properly

**Windows Platform:**

1. For the standard version of the PDF Library SDK, use the installer titled WinPDFL9SDKminSize.exe. For the speed optimized version of the PDF Library SDK, use the installer titled WinPDFL9SDKmaxSpeed.exe. Using the Typical Install option will ensure that all of the samples will build and run. It is important to note that **only one version of the PDFL SDK Library should be installed at a time**. Before installing another version of the PDFL SDK Library, the previous version of the library should be uninstalled using the Windows Add/Remove mechanism
2. For successful execution of applications outside of the Microsoft Visual Studio C++ .NET IDE, you can either copy the libraries supplied in the Libs folder to the folder where your executable resides, or place the path for the libraries into the environment variable "path". This way the executables will always find the dynamic linked libraries at run time. For Plugins, please copy libraries supplied in the Plugins\[PluginName]\Libs folder to the folder where your executable resides, or place the path for the libraries into the environment variable "path"
3. **Executing SnippetRunner in UI mode (64 bit):** User has to explicitly set 64BitMode parameter to 1 in the pdfsdk.config file in the user's home directory. This variable is initialized to 0 (zero) by default

**UNIX Platform:**

1. Copy the SDK file and execute the following in the directory you wish to unpack the SDK: `gunzip < sparcsolpdf19sdk.tar.gz | tar xvf -` (or `linuxpdf19sdk.tar.gz` or `aixpdf19sdk.tar.gz`)
2. Change directory to `PDFLSDK9/Samples/Utils` and modify the appropriate `.mak` file to point to your installed `gcc` directory and static library directory
3. Set the environment variable `LD_LIBRARY_PATH` to point to `PDFLSDK9/Libs/sparcsol` (or `linux`). On AIX, the environment variable `LIBPATH` should be used

*Important Note: PDF Library is dynamically linked with `libgcc` and `libstdc++` libraries on Linux and Solaris. These libraries are released in `PDFLSDK9/Libs/linux` and `PDFLSDK9/Libs/sparcsol`.*

## DOCUMENTATION

The following documents are available in the /PDFLSDK9/Docs folder created once the installer is run:

1. **PDF Reference and Related documentation, Sixth Edition** (pdf\_reference.pdf)  
– This PDF Portfolio contains the documents that describe the PDF standard supported by Adobe Acrobat® 9. It includes these documents:

**PDF Reference**, sixth edition, version 1.7 (Nov. 2006)

**PDF Redaction**: Addendum to the PDF Reference, sixth edition, version 1.7

**Errata for the PDF Reference**, sixth edition, version 1.7

**Adobe Supplement to the ISO 32000**, BaseVersion 1.7, ExtensionLevel 3 (for Acrobat 9)

Technical documentation (detailed in point 2 below) provided with the Adobe PDF Library is available in the /PDFLSDK9/Docs folder as well as at the following URL:

[http://livedocs.adobe.com/pdf\\_sdk/9/PDFL\\_SDK9\\_HTMLHelp/index.html](http://livedocs.adobe.com/pdf_sdk/9/PDFL_SDK9_HTMLHelp/index.html)

2. The following documents are available in HTML form in the PDFL\_SDK9\_HTMLHelp.zip file for Windows. They are also available in the file PDFL\_SDK9\_HTMLHelp.tar.gz for Mac and Unix. Unpack compressed file (ignoring checksum warnings) in /PDFLSDK9/Docs /PDFL\_SDK9\_HTMLHelp folder. Documentation can be viewed by opening index.html file in web browser:

**Acrobat and PDF Library API Reference** - This document is the reference manual for all APIs exposed by both the PDF Library and Acrobat. Thus, it includes APIs that are common to both PDF Library and Acrobat, as well as APIs that are specific to each

**Developing Plug-ins and Applications** – This is a developer guide for creating PDF Library applications as well as plug-ins for Acrobat

**Snippet Runner Cookbook** – Guide for installing and running SnippetRunner, using the Common Interface, and writing snippets

**PDF Library Overview** – Provides an introduction to development using Adobe PDF Library

## WEB ACCESS AND SUPPORT

General information about the Adobe PDF Library is available at:

<http://www.adobe.com/devnet/pdf/library/>.

For further details, please contact your Adobe representative.

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