

Adobe PDF Library SDK XV (15.0.4) ReadMe

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 [installation instructions](#).

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Major updates in Release XV (15.0.4)

- Now, tags can be preserved in PDF during PDF/A conversion.

Major updates in Release XV (15.0.3)

- Support for PDF/A-1a compliant conversion has been added to PDFProcessor. Now, PDFProcessor supports the following four standards:
 - PDF/A-1a
 - PDF/A-1b
 - PDF/X-1a
 - PDF/X-3
- Build environment for Mac has been upgraded to Mac OS X 10.11 and XCode 7.2. Supplied binaries will work on Mac OS X 10.9 and later versions.

Major updates in Release XV (15.0.2)

- There is a change in the additional OS supported for Windows and Mac in this release. Refer to [Getting started](#) section for details.

Major updates in Release XV (15.0.1)

- Two new APIs have been introduced in this release to control black point compensation for AC*() calls — ACGetBlackPointCompensation() and ACSetBlackPointCompensation(). Black point compensation maps the darkest point of one profile to the darkest point of another profile during color conversion. Previously, while converting one ICC based profile to another, the lightest points of these profiles were mapped; now you can choose whether to add darkest point mapping or not. By default, only the lightest point mapping is used.
- This release now supports conversion of spots to its alternate color space using the tint transformation. Previous releases supported conversion of spots to process colors only.
- There is a change in the supported compiler in this release. Refer to [Getting started](#) section for details.
- Regular support on Mac-32 has been withdrawn.
- Option to set default Transparency Blending Color Space has been added in this release. If no value is specified for this option, the default value 'Working CMYK' is used. Previously, there was no option to set default Transparency Blending Color Space other than the default value 'Working CMYK'.
- This release now supports creation of 16-bit DeviceN images with n number of colorants. Previously, creation of 16-bit DeviceN images was supported only with 1, 3, and 4 number of colorants.

Known issues

- **Loss of text in Type 3 fonts during PDF/A and PDF/X conversion.**

This is a known issue with PDF files having images or path elements inline with text in Type 3 fonts. The text following the inline element is lost during conversion to the PDF/A or the PDF/X format.

- **Stamp annotations missing on conversion to PDF/X.**

If the value of Rect¹ lies outside of the BleedBox, on conversion to the PDF/Xformat stamp

¹ Rect – The annotation rectangle, defining the location of the annotation on the page in default user space units.

annotations in the source are not retained in the resultant PDF.

- **PDF Library documentation cannot be viewed using Google Chrome.**

The PDF Library documentation cannot be viewed using the Google Chrome browser due to limitations with the browser. Please use Microsoft Internet Explorer or Mozilla Firefox to view documentation.

Getting started

1. Set up the PDF Library SDK on your machine as described in the Setup section.
2. Before you begin, read the PDF Library Overview. The PDF Library Overview describes the contents of each directory in the SDK installation, lists available code samples, and provides platform-specific information on how to set up the development environment.
3. Examine, compile, and run the relevant code samples or snippets for your platform. The code samples and the SnippetRunner are in the PDFLSDK15.0.4/samples directory.
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.

The following operating systems and compilers are supported by PDFL SDK XV (15.0.4):

Platform	Processor	Compiler	Additional OS
Windows-7 32-bit and 64-bit	Intel	Visual Studio 2013 Update 3	Win 8.1 and Win 10
Linux 32-bit and 64-bit (RHEL 7)	Intel	gcc version 4.8.2, glibc version 2.17	
Mac 64-bit (Mac OS X 10.11)	Intel	XCode 7	Mac OS X 10.9

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

SetUp

All platforms

The following is the directory structure for all platforms:

```
/PDFLSDK15.0.4
  /Docs
  /Include
    /Headers
    /Source
  /Libs/PLATFORM
  /Plugins
    /Flattener
      /Include
      /Libs/PLATFORM
      /Samples
    /PDFProcessor
      /Include
      /Libs/PLATFORM
      /Samples
  /XPS2PDF
    /Include
    /Libs/PLATFORM
    /Resource
    /Samples
  /Resource
  /Samples/SAMPLE_NAME
```

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

Important: Samples are tested and built with the valid values in the PDFLDataRec structure. If you do not have the valid font, CMap, unicode, or color profile folders on your system, samples may crash or throw an exception. You must either install the font and color profile 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 or color profile files.

Installing on Windows

The following two archives are shipped for Microsoft Windows:

- AdobePDFLSDKMinSize15.0.4.zip- For standard version of the PDF Library SDK.
- AdobePDFLSDKMaxSpeed15.0.4.zip- For the speed-optimized version of the PDF Library SDK.

a) Verifying the archive

The Windows archives are now signed and users can verify them for authenticity. To verify the signature of the ZIP file:

1. Install JDK (preferably JDK 1.6 or higher) on your machine.
2. From the *bin* folder of the JDK installation, execute the following command:
jarsigner.exe -verify [-verbose -certs] %ZIP_File_Path%

Note: The following parameters are optional: {-verbose, -certs}

b) Installation

1. Unzip the preferred ZIP file:
 - For standard version of the PDF Library SDK, use AdobePDFLSDKMinSize15.0.4.zip.
 - For the speed-optimized version of the PDF Library SDK, use AdobePDFLSDKMaxSpeed15.0.4.zip.

Important: If for some reason, both the above variants need to exist on the disk, ensure that they are extracted into separate locations.
2. To ensure that applications run successfully outside the Microsoft Visual Studio C++ .NET IDE, make sure that the executable always find the dynamic linked libraries at run time:
 - Copy the libraries supplied in the Libs folder to the folder where your executable resides.
 - Place the path for the libraries into the PATH environment variable.
3. To ensure that the plugins run successfully:
 - Copy the libraries supplied in the Plugins\[PLUGIN_NAME]\Libs folder to the folder where your executable resides.
 - Place the path for the libraries into the PATH environment variable.

Executing SnippetRunner in UI mode (64-bit)

You must explicitly set the 64BitMode parameter to 1 in the pdfsdk.config file in your home directory. This variable is initialized to 0 (zero) by default.

Installing on Mac

The DMG file, AdobePDFLSDK15.0.4.dmg, is shipped for the Mac platform.

a) Verifying AdobePDFLSDK15.0.4.dmg package for Mac

The DMG file, AdobePDFLSDK15.0.4.dmg, has its hash shared in the form of a SIG file AdobePDFLSDK15.0.4.sig. This SIG file is certified by Adobe.

1. To verify the DMG for authenticity, you can use the following codesign command:
codesign -v -vvvv -D \$\$SIG_File_Path \$DMG_File_Path

Example: `codesign -v -vvvv -D
/Users/abc/Desktop/AdobePDFLSDK15.0.4.sig
/Users/abc/Desktop/AdobePDFLSDK15.0.4.dmg`
Should state *'satisfies its Designated Requirement'*.

2. To view the signature of the SIG file AdobePDFLSDK15.0.4.sig, use the `codesign` command:

`codesign -d -vvvv -D $SIG_File_Path $DMG_File_Path`

Example: `codesign -d -vvvv -D
/Users/abc/Desktop/AdobePDFLSDK15.0.4.sig
/Users/abc/Desktop/AdobePDFLSDK15.0.4.dmg`

b) Installation

1. Mount the DMG image for AdobePDFLSDK15.0.4.dmg.
2. Copy the PDFL SDK 15.0.4 folder to a local drive.

By default, all libs are present under the PDFLSDK15.0.4/Libs/folder; categorized under `mac_x64` for 64-bit target configuration. Aliases or proper paths must be set to ensure that the sample applications run properly.

Installing on UNIX

To install the Adobe PDF Library SDK on the UNIX platform:

1. Copy the file AdobePDFLSDK15.0.4.tar.gz to a directory.
2. Run the following command in the directory that you want to unpack the SDK:
gunzip < AdobePDFLSDK15.0.4.tar.gz | tar xvf
3. Change directory to PDFLSDK15.0.4/Samples/utills and modify the appropriate .mak file to point to your installed gcc directory and static library directories.
4. Set the environment variable LD_LIBRARY_PATH to point to either
 - a. PDFLSDK15.0.4/Libs/linux/or
 - b. PDFLSDK15.0.4/Libs/linux_64/

Important: Install libX11 (and its dependent libraries) on RHEL7. This library, which is *not* a part of core package, is required for building samples and plugins on RHEL7.

Important: PDF Library is dynamically linked with libgcc and libstdc++ libraries on Linux. These libraries are released in PDFLSDK15.0.4/Libs/linux and PDFLSDK15.0.4/Libs/linux_64/.

Documentation

1. **PDF Reference and Related documentation, Sixth Edition** (pdf_reference.pdf) is available in the /PDFLSDK15.0.4/Docs folder: This PDF Portfolio contains the documents that describe the PDF standard supported by Adobe Acrobat®. 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 XI)

2. **PDF Library API Reference** is available in HTML form in the PDFL_SDK_HTMLHelp compressed archives. This document is the reference manual for all APIs exposed by the PDF Library. Please visit the Documentation section of the Release website to access the archives.
3. **PDF Library Overview:** Provides an introduction to development using the Adobe PDF Library. Please visit the Documentation section of the Release website to access this document.

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