

Adobe[®] XMP Toolkit

Version 4.1.1



Version 4.1.1 of the Adobe XMP Toolkit (XMP SDK) adds a new component, XMPFiles. The 4.0 preview SDK was the first exposure of XMPFiles. This release contains significant updates to XMPFiles, and provides it as source instead of a compiled static library. The XMP Toolkit now contains two components:

XMPCore — A component for parsing, manipulating, and serializing XMP data. XMPCore has no knowledge of files. The XMPCore API is provided by the XMPMeta, XMPIterator, and XMPUtils classes.

For XMPCore there is also a Java implementation included. Further information can be found in the Javadoc documentation (</java/XMPCore/docs/index.html>).

XMPFiles — This portion provides support for locating the XMP in a file, adding XMP to a file, or updating the XMP in a file. It returns the entire XMP packet, the XMPCore component can then be used to manipulate the individual XMP properties. XMPFiles contains a number of “smart” file handlers that know how to efficiently access the XMP in specific file formats. It also includes a fallback packet scanner that can be used for unknown file formats. Further details are in the HTML documentation (</docs/XMPToolkit/index.html>).

Both components are provided as source with project files for XCode 2.3, Visual Studio 2005 (VC 8), gcc 4 and Eclipse 3.x (the last two only for XMPCore). Two non-Adobe components are needed to build the XMP SDK: The Expat XML parser is needed for XMPCore on all platforms. Apple’s QuickTime for Windows SDK is needed for XMPFiles on Windows. The XMP SDK contains ReadMe.txt files describing how to obtain these components under `/third-party/expat` and `/third-party/QTDevWin`.

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For an introduction to the Extensible Metadata Platform you are encouraged to read the XMP Specification included in the SDK, especially chapter 2, *XMP Data Model*, and chapter 3, *XMP Storage Model*.

XMP SDK Download File

There is a single .zip file download that is usable on Macintosh[®], Windows[®], and UNIX[®]. Almost all text files, including all C/C++ and Java source files, have UNIX-style line endings using ASCII linefeed. The Visual Studio project files have Windows-style carriage-return/linefeed line endings. The .zip file contains the top-level folder “XMP-SDK”.

XMP SDK Contents

The zip-file contains the following folders under the root folder "XMP-SDK":

- **/build** Contains subfolders with projects and makefiles for building the XMP Toolkit on Macintosh, Windows, and UNIX. The Macintosh build is an Xcode 2.3 project, this will create an universal binary for both PowerPC and Intel processors. The Windows build is a Visual Studio 2005 (VC8) solution. The UNIX build is a makefile for gcc, it has been tested on x86 Linux.
- **/docs** Contains the License Agreement (BSD-License.txt), this overview (XMP-SDK-Overview.pdf), the XMP Specification (XMP-Specification.pdf) and the API documentation for the XMP Toolkit in HTML (XMPToolkit/index.html).
- **/public/include** Contains the headers files used by clients of the XMP Toolkit.
- **/samples** Contains source and build projects for four sample programs. XMPCoreCoverage illustrates use of the XMPCore. XMPFilesCoverage illustrates use of the XMPFiles. DumpMainXMP uses XMPFiles to find the main XMP in a file and display its content. DumpScannedXMP uses "dumb" packet scanning to find all XMP Packets in a file and display their content.
- **/source** Contains the implementation of the XMP Toolkit.
- **/third-party/expat** Contains a placeholder for the Expat XML parser used by XMPCore. Read the ReadMe.txt for information about obtaining Expat.
- **/third-party/QTDevWin** Contains a placeholder for Apple's QuickTime for Windows SDK used by XMPFiles. Read the ReadMe.txt for information about obtaining the QuickTime for Windows SDK.
- **/java** Contains the Java version of XMPCore, the API documentation, project files for Eclipse 3.x and an example. The readme.txt describes how to set up the projects in Eclipse.

XMP SDK Changes

• Version 4.1.1

Add the XMPFiles component and add the Java version of XMPCore.

Visual Studio 2005 (VC8) projects replace Visual Studio .Net 2003 (VC7) projects. CodeWarrior projects are removed.

• Version 3.5

Addition of Xcode projects for building Macintosh universal binaries. Version 3.5 also adds a few functions to the SXMPUtils class to support the latest Adobe DNG SDK.

• Version 3.2

A complete rewrite of the XMPCore. More convenient API.

Smaller, faster, more robust implementation.