

KeyView Filter SDK

Software Version 12.1.0

Release Notes



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New in this Release

This section lists the enhancements to KeyView Filter SDK version 12.1.0.

- KeyView format detection has been greatly extended, with support for almost 200 additional file formats. By identifying a larger range of formats present in the enterprise, decisions can readily be made on how to route, filter, or alert on such documents. For the full list, refer to the Filter SDK Programming Guides.
- PDF table detection has been improved.
- Improved performance when processing some large Word documents (DOCX).
- KeyView can process HTML documents that contain images stored as data URIs (where the image data is included in the HTML source code rather than as a separate file).
- When filtering HTML files and including hidden text, KeyView outputs the value of the `title` attribute for each `img` tag, in addition to the value of the `alt` attribute which was already output. If both attributes exist and have the same content, the text is output only once.
- The C, Java, and .NET file extraction APIs have new options that you can use to help secure your application against directory traversal attacks. KeyView can modify absolute paths so that files are always extracted to a location within your chosen extract directory. You can instruct KeyView to sanitize absolute paths programmatically, or by setting the `SanitizeAbsoluteExtractPaths` parameter in the configuration file.
- If, when extracting a subfile, you specify an extract directory and relative path that would cause the file to be created outside of that extract directory, KeyView modifies the path to keep it within the extract directory. This makes it easier for you write code that avoids directory traversal attacks.
- Embedded images that are extracted from Microsoft Word (DOC, DOCX), Excel (XLSX), and PowerPoint (PPT, PPTX) files when `ExtractImages=TRUE`, are now classified as embedded images, embedded icons, embedded content, or embedded previews.
- The `KVFLT_NOEMBEDDEDOBJECT` flag is now respected for Microsoft PowerPoint (PPT and PPTX) files. If you set this flag then embedded previews are not included in the filter output.
- Some of the error messages for the Java API Container methods have been improved.
- KeyView now supports the AutoCAD DWG 2018 format.
- KeyView now supports Microsoft Project 2016 files.
- KeyView format detection can determine the version for some Microsoft Office zipped XML formats (including for example `MS_Word_2007_Fmt`, `MS_Excel_2007_Fmt`, `MS_PPT_2007_Fmt`, and `MS_Visio_2013_Fmt`). This means you can determine which version of the application, for example Word 2013 or Excel 2016, was used to create the document.
- The OpenSSL library has been updated to version 1.0.2o.

Resolved Issues

The following issues were resolved in KeyView Filter SDK version 12.1.0.

- KeyView was susceptible to security vulnerabilities involving malicious HTML and PDF files.
- KeyView failed to release memory when processing any file.
- KeyView could leak file handles on non-Windows platforms when performing autodetection on some file types.
- KeyView failed to process some multimedia files.
- On Linux platforms, KeyView could fail to process files out-of-process if the calling process was using more than half the available memory and no swap space was available.
- KeyView could terminate unexpectedly if the `metadata_map()` function, in the C++ SDK, was called on a folder instead of a file.
- KeyView could time out when filtering a Microsoft OneNote file.
- KeyView failed to process some Microsoft Visio (VSD) files.
- KeyView failed to process plain text files in-process in stream mode.
- KeyView could fail to release memory when using the Java SDK to filter from a stream to a stream.
- KeyView could fail to properly release some resources when using the Java SDK to filter only part of a file to a stream.
- Some files were incorrectly identified as DXF files.
- Some MPEG Sequence files were not detected correctly.
- KeyView was updated to resolve a vulnerability in RAR extraction (see <https://cve.mitre.org/cgi-bin/cvename.cgi?name=2018-10115>).
- KeyView could terminate unexpectedly when extracting images on Windows Server 2012.
- KeyView could terminate unexpectedly when processing multiple PDF files on multiple threads in-process with the PDF2 reader.
- KeyView did not extract subfiles from ODF formula files.
- KeyView failed to extract OLE subfiles from Haansoft Hangul 2002+ (HWP) documents.
- Some images could be missed when extracting Microsoft Excel (XLS or XLSX) files with the `ExtractImages` option enabled.

Requirements

This section lists the supported platforms, supported compilers, and software dependencies for the KeyView Filter SDK.

Supported Platforms

- CentOS 7
- FreeBSD 8.1 x86
- IBM AIX L6.1 PowerPC 32-bit and 64-bit
- IBM AIX L7.1 PowerPC 32-bit and 64-bit
- Mac OS X Mountain Lion 10.8 or higher on 32- and 64-bit Apple-Intel architecture
- Microsoft Windows Vista Business Edition x86 and x64. Other editions of Vista have not been tested, but are likely supported.
- Microsoft Windows 2008 Server Enterprise Edition x86 and x64
- Microsoft Windows 2008 Server R2
- Microsoft Windows 7 x86 and x64
- Microsoft Windows 8 x86 and x64
- Oracle Solaris 10 SPARC
- Oracle Solaris 10 x86 and x64
- Red Hat Enterprise Linux 5.0 x86 and x64
- Red Hat Enterprise Linux 6.0 x86 and x64
- SuSE Linux Enterprise Server 10, 10.1, 11, x86 and x64

Supported Compilers

Platform	Architecture	Compiler Name	Compiler Version
Microsoft Windows	x86	cl	Microsoft 32-bit C/C++ Optimizing Compiler Version 16.00.30319.01 for x86
	x64	cl	Microsoft C/C++ Optimizing Compiler Version 16.00.30319.01 for x64

Platform	Architecture	Compiler Name	Compiler Version
Sun Solaris	x86 64-bit	Sun Studio 12	Sun C 5.9 SunOS_i386 Patch 124868-01 2007/07/12
	SPARC 64-bit	Sun Studio 11	Sun C 5.8 Patch 121015-06 2007/10/03
Linux	x86	gcc / g++	3.4.3 (Redhat 4), 4.1.0 (SuSE Linux 10)
	x64	gcc / g++	4.1.0 (Redhat 4), 4.1.0 (SuSE Linux 10)
IBM AIX	Power	xlC_r / cc_r	IBM XL C/C++ Enterprise Edition V8.0
Mac OSX	Apple-Intel 32-bit and 64-bit	LLVM	Apple LLVM 5.1 (clang-503.0.40) (based on LLVM 3.4svn)
FreeBSD	BSD x86	gcc / g++	4.2.1 [FreeBSD] 20070719

Supported Compilers for Java Components

Component	Compiler
Java components	Java 1.5

C++ Filter SDK

The C++ Filter SDK is supported on:

- Linux using GCC 5 or later
- Windows using Visual Studio 2015 or later

Software Dependencies

Some KeyView components require specific third-party software:

- Java Runtime Environment (JRE) or Java Software Developer Kit (JDK) version 1.5 is required for Java API and graphics conversion in Export SDK.
- Outlook 2002 client or later versions is required when processing Microsoft Outlook Personal Folders (PST) files using the MAPI-based reader (`psts_r`). The native PST reader (`pstns_r`) does not require an Outlook client.

NOTE:

If you are using 32-bit KeyView, you must install 32-bit Outlook. If you are using 64-bit

KeyView, you must install 64-bit Outlook.

If the bit editions do not match, an error message from Microsoft Office Outlook is displayed:

Either there is a no default mail client or the current mail client cannot fulfill the messaging request. Please run Microsoft Outlook and set it as the default mail client.

Additionally, KeyView displays the following return code:

Error 32: KVErrror_PSTAccessFailed.

- Lotus Notes or Lotus Domino is required for Lotus Notes database (NSF) file processing. The minimum requirement is 6.5.1, but version 8.5 is recommended.
- The Microsoft .NET Framework is required if you are using the .NET implementation of the API.
- Microsoft Visual C++ 2013 and Microsoft Visual C++ 2010 Redistributables (Windows only).

Documentation

The following documentation was updated for this release:

- *KeyView Filter SDK C Programming Guide*
- *KeyView Filter SDK C++ Programming Guide*
- *KeyView Filter SDK Java Programming Guide*
- *KeyView Filter SDK .NET Programming Guide*