

# KeyView Filter SDK

Software Version 12.0.0

## Release Notes



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## New in this Release

This section lists the enhancements to KeyView Filter SDK version 12.0.0.

- KeyView format detection has been greatly extended, nearly doubling the number of supported formats. The new formats include a wide range of new formats, but include many CAD, image, video, audio, analytics, archive and desktop publishing 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*.
- Apple iWork '13, '14, and '16 detection has been extended to Solaris x86 64 platforms.
- KeyView can now read and filter StarOffice Writer documents from StarWriter versions 3.0, 3.1, 4.0 and 5.
- KeyView can now read and filter StarOffice Calc spreadsheet documents from StarCalc versions 3.0, 3.1, 4.0 and 5.
- KeyView can now read and filter StarOffice Impress presentation documents from StarImpress and StarDraw versions 3.0, 3.1, 4.0 and 5.
- KeyView now supports iWork Numbers files created by the January 2018 version of iCloud.
- KeyView can now extract Zipped Keyhole Markup Language (KMZ). In addition, detection for these files has been improved.
- KeyView can now attempt to identify the programming language during auto-detection of a file that contains source code. This feature is experimental, and might be changed in subsequent releases. You can enable source code detection by setting the `SourceCodeDetection` parameter in the `[Options]` section, or by passing `KVFLT_SOURCECODEDETECTION` to `fpFilterConfig`.

You can set `SourceCodeDetection` to `KVSOURCECODE_OFF`, `KVSOURCECODE_ENABLED`, or `KVSOURCECODE_EXTENDED`. The extended version includes more source code formats, but might result in false positives in some cases (for example, it might identify a C++ file as a rarer format). For details of the available formats, refer to the KeyView supported formats documentation in the *Filter SDK Programming Guide*.

- The Java API now provides more informative exception messages when initialization fails.
- For XPS files, the inference of spacing has been improved where space characters are not stored in the text.
- The C++ Filter SDK is now available in the installation package for Mac OSX.
- Support for Haansoft Hangul formats (versions 97 and 2002-2010) has been improved.

## Resolved Issues

The following issues were resolved in KeyView Filter SDK version 12.0.0.

- The makefiles for the sample programs did not work on OSX platforms.
- When hidden text extraction was enabled, some forms of hyperlink were not filtered correctly from Microsoft Word (DOCX) files.
- KeyView failed to extract some iCalendar (ICS) files.
- iCalendar (ICS) files containing multiple appointments were not extracted correctly.
- When extracting ARJ files, KeyView reported dates from subfiles in local time rather than UTC.
- Some EML files were incorrectly identified as plain text.
- Some Keyhole Markup files (.KMZ) were not detected as KMZ.
- KeyView failed to release memory when the reader `kppdf2rdr` was used to process PDF files.
- When image extraction was enabled, KeyView failed to extract subfiles from some file types.
- KeyView failed to extract images from encrypted files.
- KeyView could sometimes fail to convert HTML files that contained a large number of nested tables.
- KeyView could identify some MHT files as the wrong format.
- KeyView returned an error when processing a Microsoft Visio Stencil (.VSSX) without any pages.
- Minor errors in JPEG headers could prevent summary information from being extracted from JPEG files.
- KeyView could fail to release memory after extracting Microsoft Word document files (.DOCX and .DOCM).
- KeyView could fail to release memory after processing a Pages file (.pages).
- KeyView could fail to release memory after processing Microsoft Visio Drawing files (.VSD).
- KeyView returned an error when attempting to process some OneNote files.
- KeyView failed to process some ICS files.
- KeyView failed to process Microsoft Word Flat XML files in stream mode.
- KeyView failed to process some PDF files.
- In rare cases, KeyView could misidentify a plain text file as Milestone format.
- Some attachments were not extracted correctly from some ICS files.
- KeyView would return an error if two files were open for extraction at the same time (using `fpOpenFile`) in the same KeyView session.
- The `filter_container` C++ sample program returned an error when extracting nested subfiles.

- When processing a file that was not an archive, the Java method `Filter.openArchiveFile` could exit unexpectedly.
- Custom field names in RTF summary data were not converted to UTF-8.
- When hidden text extraction was enabled, KeyView failed to process HTML files that contained images with more than 16K of alt text.
- The Java method `Filter.shutdownFilter` could exit unexpectedly following an error in another method.
- KeyView did not correctly extract the first resource of MS project 9 files.
- KeyView failed to process some HTML files.
- The kvoop process could sometimes fail to shut down cleanly.

# 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 (*pstsr*). The native PST reader (*pstnsr*) 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 Java Programming Guide*
- *KeyView Filter SDK .NET Programming Guide*