

IDOL

# KeyView Filter SDK

Software Version 12.9.0

Release Notes



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## Documentation updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

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## New in this Release

This section lists the enhancements to KeyView Filter SDK version 12.9.0.

- KeyView format detection has been extended, with support for 55 additional file formats. By identifying a larger range of formats present in the enterprise, decisions can be made on how to route, filter, or alert on such documents. For the full list, refer to the *KeyView Filter SDK Programming Guides*.
- KeyView can now filter text from Apache Avro binary format.
- Support has been added for Apache Parquet database format, on Windows and Linux 64-bit platforms.
- Support has been added for filtering text from Adobe Font Metrics (Adobe\_Font\_Metrics\_Fmt) files.
- Support has been added for filtering text from Printer\_Font\_ASCII\_Fmt files.
- Support has been added for filtering text from LyX Word Processor (LyX\_Fmt) files.
- KeyView now obtains significantly more summary metadata from DICOM files.
- KeyView now performs character set conversion more quickly.
- Performance improvements have been made for some files when using `fpFilterStream()` with `streaming_method=pipe`.
- When you partially filter a spreadsheet format that contains large sheets, KeyView now starts to provide available filtered text before it has processed the entire sheet.
- Filtering large input streams using the Java API now requires less memory.
- New configuration options have been added to enable or disable Optical Character Recognition (OCR) in the C++, .NET, and Java APIs.
- The Java API now allows you to detect, filter, extract and obtain metadata from RMS encrypted documents, when you provide the right credentials.
- Users of the Filter Java API can now implement a seekable input stream to enable KeyView to more efficiently process documents.
- Filter OCR now supports 1-bit monochrome and 8-bit greyscale images.
- Filter OCR now supports 1-bit palette scheme images.
- Filter OCR now supports JPEG 2000 files.
- The autodetection output for the `filtertest` program has been improved to include the format category value, which might be useful for seeing quickly how the format detected maps to the format numbers used in `formats.ini`.
- The `pdfsr` reader can now read additional types of corrupted files.
- The insertion of spaces into text filtered from XPS documents is now more accurate.

- The Expat third-party library has been upgraded to version 2.2.10.
- The wavpack third-party library has been upgraded to version 5.4.0.
- The SQLite third-party library has been upgraded to version 3.34.1.
- The libjpeg third-party library has been upgraded to version 9d.
- The JasPer third-party library has been upgraded to version 2.0.24.
- The libPNG third-part library has been upgraded to version 1.6.37.
- KeyView now performs stricter checking on the return value of the `KVOutputStream.fwrite()` function you pass in when using the extract API to extract to a stream.

**CAUTION:** The return value should be the number of bytes successfully written. Previously, KeyView assumed that any non-zero value indicated that all bytes had been written successfully.

## Resolved Issues

The following issues were resolved in KeyView Filter SDK version 12.9.0.

- When filtering Word documents, KeyView could fail to process images with a large amount of alternative text.
- KeyView could output incorrectly terminated Unicode strings in summary information.
- Hidden Sheets in ODS (Open Document Spreadsheet) files were always processed.
- Microsoft Excel files with large numbers of merged cells took a long time to process.
- OCR could produce incorrect output for images that contained alpha channels.
- The `kEncrypted` attribute was not set for RMS encrypted `MS_Word_2000_Fmt`, `Excel_2000_Fmt` and `PowerPoint_2000_Fmt` files.
- KeyView failed to retrieve the `PageCount` in summary information from some PDF documents that did not contain other summary information.
- Applications that were built against the .NET API version 12.6 or earlier needed to be rebuilt before they would run correctly, because of updated constructor signatures. Backward compatible constructors have now been added so you do not need to rebuild the applications.
- Getting summary information from big-endian (or 'RIFX') `MS_WAVE_Audio_Fmt` files could cause an interruption of service (in-process) or cause the `kvoop` process to exit unexpectedly (out-of-process).
- When using the `unzip` reader in-process in stream mode, KeyView failed to extract subfiles larger than 4kB from PPMd-compressed ZIP files.
- PDF Portfolio was occasionally not detected correctly.
- If the same file was filtered out-of-process several times in a row, in stream mode, KeyView started a new `kvoop` process each time.
- KeyView would take a long time to open some malformed ODF files ready for extraction.
- When filtering HTML files that had data URL images in stream mode (and using `streaming_method=pipe` if out-of-process), KeyView could exit unexpectedly (in-process) or return an error (out-of-process) when the temporary directory was specified as a relative path.
- KeyView could exit unexpectedly when processing some Microsoft Excel files (`.xlsx`) that contained content positioned in a non-standard way.
- KeyView could exit unexpectedly when processing malformed PDF files that contained recursive forms.
- Custom metadata was missing from some RMS encrypted Office documents.
- When processing some Microsoft Word (DOCX) files with many shapes or text boxes, KeyView could exit unexpectedly (in-process) or return an error (out-of-process).
- When processing some OneNote (`OneNote_Fmt`) files, KeyView could exit unexpectedly (in-

process), or return an error (out-of-process).

- When processing some JBIG2\_Fmt files, KeyView could exit unexpectedly (in-process), or return an error (out-of-process).
- When processing some Visio (MS\_Visio\_Fmt) files, KeyView could exit unexpectedly (in-process), or return an error (out-of-process).
- When processing a crafted Ami Pro document (Ami\_Pro\_Fmt, Ami\_Pro\_StyleSheet\_Fmt), there was a security vulnerability that could allow code execution.

# Requirements

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

## Supported Platforms

- CentOS 7 x86, x64, and AArch64
- IBM AIX L6.1 PowerPC 32-bit and 64-bit
- IBM AIX L7.1 PowerPC 32-bit and 64-bit
- macOS 10.13 or later on 64-bit Apple-Intel architecture
- macOS 11 or later on Apple M1.
- Microsoft Windows Server 2012 x64
- Microsoft Windows Server 2016 x64
- Microsoft Windows Server 2019 x64
- Microsoft Windows 8 x86 and x64
- Microsoft Windows 10 x64
- Oracle Solaris 10 SPARC
- Oracle Solaris 10 x86 and x64
- Red Hat Enterprise Linux 6 x86 and x64
- Red Hat Enterprise Linux 7 x64
- Red Hat Enterprise Linux 8 x64
- SuSE Linux Enterprise Server 11 x86 and x64
- SuSE Linux Enterprise Server 12 x64
- SuSE Linux Enterprise Server 15 x64

## Supported Compilers

Platform	Architecture	Compiler Name	Compiler Version
Microsoft Windows	x86	cl	Microsoft 32-bit C/C++ Optimizing Compiler for x86 Version 17 (Visual Studio 2012) to Version 19 (Visual Studio 2019)



Platform	Architecture	Compiler Name	Compiler Version
	x64	cl	Microsoft C/C++ Optimizing Compiler for x64 Version 17 (Visual Studio 2012) to Version 19 (Visual Studio 2019).
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++	4.1.0 to 4.9.2
	x64	gcc / g++	4.1.0 to 4.9.2
IBM AIX	Power	xIC_r / cc_r	IBM XL C/C++ Enterprise Edition V8.0
macOS	Apple-Intel 64-bit	LLVM	Apple LLVM 5.1 (clang-503.0.40) (based on LLVM 3.4svn)
	Apple M1	LLVM	Apple LLVM 12.0.0 (clang 1200.0.32.28).

### Supported Compilers for Java Components

Component	Compiler
Java components	Java 7

### 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 7 or 8 is required for Java API and graphics conversion in Export SDK.
- Outlook 2002 or later is required to process Microsoft Outlook Personal Folders (PST) files using the MAPI-based reader (pstsr). The native PST readers (pstxsr and pstnsr) do not require Outlook.

**NOTE:** You must install an edition of Microsoft Outlook (32-bit or 64-bit) that matches the

KeyView software. For example, if you use 32-bit KeyView, install 32-bit Outlook. If you use 64-bit KeyView, install 64-bit Outlook.

If the editions do not match, KeyView returns Error 32: KVErrror\_PSTAccessFailed and 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.

- 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++ 2019 Redistributables (Windows only).

## Notes

- The ability to provide KeyView license information as a file (`kv.lic`) has been deprecated. In the C API, the function `fpInit()` has been deprecated. Micro Focus recommends that you use `fpInitWithLicenseData()` instead, so that your license key is passed to KeyView through the API. You should not include license information in your application as a file. `fpInit()` is still available for existing implementations, but it might be incompatible with new functionality and might be removed in future.
- The platform name for MacOS in installers has been updated from `OSX_64` to `MACOS_X86_64`.

# Documentation

The following documentation was updated for KeyView Filter SDK version 12.9.0.

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