IDOL
KeyView Filter SDK

Software Version 12.12.0

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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Contents

New in this Release

This section lists the enhancements to KeyView Filter SDK version 12.12.0.

- KeyView format detection has been extended, with support for 30 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*.

- **(Security update)** KeyView has been hardened against DLL and shared library preloading attacks. KeyView now only loads shared libraries from the specified bin directory.

- **(Security update)** To improve security, `WINDOWS_X86` and `WINDOWS_X86_64` binaries are built with Control Flow Guard enabled.

- Tagged Image File Format (TIFF) support has been extended to handle a wider range of TIFF subsets and extensions.

- KeyView now includes data labels from charts in Microsoft Excel (xlsx) format documents in the filter output.

- When processing Microsoft Excel (XLSX) files with cells that contain rich data, like Stocks or Geography, KeyView now outputs the value of those cells, for example the company or country name. Rich Data types were added to Excel in version 1810 (Build 11001.20074).

- KeyView now filters text from threaded comments directly, instead of getting the text from the legacy comment placeholder. Threaded comments were added to Excel in Version 1810 (Build 11001.20074). You can still filter text from the legacy placeholders by using `KVFLT_ SHOWHIDDENTEXT`.

- The following improvements have been made for filtering XLSX files when `KVFLT_ SHOWHIDDENTEXT` is turned on:

  - KeyView now filters the names of Sheet Views, which were added to Excel in version 2007 (Build 13029.20308).

  - When filtering threaded comments with @mentions, KeyView now includes the email addresses associated with the person mentioned. These comments were added to Excel in Version 1902 (Build 11328.20146).

- KeyView now handles files which contain embedded PHP, but are otherwise valid HTML files. Any embedded PHP is excluded from the output. If you have set `KVFLT_SHOWHIDDENTEXT`, KeyView outputs the skipped PHP after the HTML content.

- Improved support for embedded images in `MS_Outlook_Fmt` (.msg) files. KeyView can now corrctly interpret embedded image references that use content-ids, and modifies the extracted HTML body so that browsers can resolve the image URLs.

- You can now configure out-of-process pipe-streaming while a program is running, not just in the `formats.ini` configuration:

- ○ C API: use the `KVFLT_FILTERPIPESTREAMING` and `KVFLT_EXTRACTPIPESTREAMING` options in the `fpFilterConfig` function.

- ○ Java API: use `filter_streaming_method` and `extract_streaming_method`.

- ○ C++ API: use the `extract_pipe_streaming` and `filter_pipe_streaming` methods in the Configuration class.

- ○ .NET API: use the `FilterPipeStreaming` and `ExtractPipeStreaming` properties on the Filter object.

- When you call `fpFilterConfig` to configure the directory that KeyView should use to store temporary files, the function returns `FALSE` if the target directory does not exist or is otherwise inaccessible.

- When you filter or export an RMS-encrypted Office or RPMSG file but have not specified RMS credentials, KeyView returns a new error code, `KVError_RMSCredentialsRequired`. Previous versions of KeyView returned `KVERR_PasswordProtected`. This does not apply to RMS-encrypted pFiles and PDFs, because KeyView can perform some processing of these formats without RMS credentials.

- The C sample programs that contain an embedded trial license can also read license information from environment variables. This allows you to continue to use a program after the embedded trial license has expired, and makes it easy to test or troubleshoot with your own license.

- The Java and .NET sample programs have been updated to provide license information through the API, because using a license file (`kv.lic`) was deprecated in an earlier release. The compiled binaries that are supplied in the SDK have an embedded trial license, which expires approximately five months after release. If the environment variables `KV_SAMPLE_PROGRAM_LICENSE_ORGANIZATION` and `KV_SAMPLE_PROGRAM_LICENSE_KEY` are set then those values are used instead, so that you can use the programs after the embedded trial license has expired, and test or troubleshoot with your own license.

- The `libtiff` third-party library has been upgraded to version 4.3.0.

- The `fpGetSummaryInfo` and `fpGetSummaryInfoFile` functions now return some finer-grained error codes. In particular, they return `KVERR_FormatNotSupported` when the file is not of a type supported for getting summary info.

- The `pxlsr` reader has been added for filtering HP PCL XL documents.

Resolved Issues

The following issues were resolved in KeyView Filter SDK version 12.12.0.

- **(Security update)** The third-party OpenSSL library was updated to version 1.1.1n to resolve a security vulnerability, CVE-2022-0778.

- The Java API could terminate unexpectedly when used to extract sub-files, if it was being used from multiple threads.

- When attempting to extract a file whose format could not be detected, the API would return `KVERR_AutoDetFail` rather than `KVERR_AutoDetNoFormat`.

- **(Security update)** KeyView could terminate unexpectedly (in-process), or report an error (out-of-process) when attempting to process some TAR archive format (.tar) files containing very long subfile names.

- When processing some PDFs using the reader `pdfsr`, KeyView could fail to output some text or could output meaningless characters instead of the correct contents of the file.

- KeyView did not output some annotations from PDF files.

- **(Security update)** KeyView could stop responding (in-process) or time out (out-of-process) when attempting to process malicious PDF files with invalid page trees.

- **(Security update)** KeyView could use an excessive amount of memory and stop responding (in-process) or time out (out-of-process) when attempting to process some corrupt Microsoft OneNote (.one) files.

- Some numbers in Microsoft Excel (.xlsx) files were formatted incorrectly if the global locale had been modified by the calling code.

- When processing dates in some Microsoft Excel (.xlsx) files, KeyView would output a date 4 years later than the correct date.

- When filtering Microsoft Excel (.xlsx) files, some text could be missed from sheets with lots of images or charts.

- In Microsoft Word (.docx) files, text from an Ask field was incorrectly included in the output. This text is now included only when you enable the option to show hidden text.

- KeyView would output extra list markers for some Microsoft Word (.docx) files (bullets or numbers not shown when the file was opened in Word).

- **(Security update)** When processing RMS protected files out-of-process, KeyView would sometimes fail to remove some of the temporary files it created.

- When extracting images from PDF files using `pdfsr`, KeyView sometimes created invalid TIFF images that had the wrong colormap size.

- KeyView could incorrectly decode some images when extracting from PDF files using the reader `pdfsr`.

- **(Security update)** When configured to run in-process and being called from multiple threads, KeyView could exit unexpectedly when extracting XMP metadata from one of the file formats for which support was added in 12.6.

- Getting summary info could take a long time because the out-of-process server (KVOOP) restarted when the file was not of a type supported for getting summary info.

Requirements

For information about supported platforms, supported compilers, and software dependencies for the KeyView Filter SDK, refer to the *KeyView Filter SDK Programming Guides*.

Notes

- KeyView 12.12 requires a later version of the Visual C++ Redistributables than were required by KeyView 12.11. The redistributables are provided in the `vcredist` folder of the KeyView SDK but you can download the latest installers from Microsoft to get the latest security, reliability, and performance improvements.

- In the Filter C API, when calling `fpInit()` or `fpInitWithLicenseData()`, the `pDynLink` argument must be `NULL`. The (undocumented) ability to pass a non-null value has been removed.

Deprecated Features

The following features are deprecated and might be removed in a future release.

Category	Deprecated Feature	Deprecated Since
C API	The `KVMemoryStream` structure and all uses of it are deprecated. KeyView does not guarantee to make memory allocations through this structure, and it might be removed in future.	12.10.0
Licensing	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.	12.7.0
C++ API	The Configuration class getter methods have been deprecated. These methods retrieve only the option that has been set through the C++ API, and do not reflect options set in `formats.ini`. The methods are still available for existing implemetnations, but they might be removed in future.	12.12

Documentation

The following documentation was updated for KeyView Filter SDK version 12.12.0.

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