

IDOL

KeyView Filter SDK

Software Version 12.13.0

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 12.13.0.

- KeyView format detection has been extended, with support for 51 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 now includes support for the primary image from .heic and .heif image format files. KeyView now performs Optical Character Recognition (OCR) when you filter these images if OCR is enabled in your license.
- KeyView now includes support for the WebP image format. KeyView now performs Optical Character Recognition (OCR) when you filter these images if OCR is enabled in your license.
- You can choose the algorithm that Optical Character Recognition uses to find text within an image, when configuring OCR through the C API. By default, KeyView uses the algorithm that normally works best with scanned documents.
- **(Security update)** KeyView has been hardened against potential exploits when loading the configuration file.
- When filtering files, if KeyView is unable to read the configuration file (`formats.ini`) file, KeyView might now return a new error code, `KVError_InvalidConfigurationFile`. Previous versions of KeyView returned `KVERR_FormatNotSupported`.
- OCR accuracy has been improved for some files.
- The PDF reader (`pdfsr`) has been improved for Arabic text in some circumstances. When you use Microsoft Print to PDF to convert Word documents that contain Arabic text in Calibri font to PDF, the resulting file is often incomplete: information which is required to interpret the text content is missing. The PDF reader (`pdfsr`) is now able to reconstruct this missing information, so that all letters are output correctly.
- The `filter` sample program has been updated to demonstrate how to make use of `formats_description.tsv` to output additional information about the type of file that has been detected. The `filter -d` option now additionally outputs the detected format's name, description and, when applicable, MIME type.
- When processing charts in Word (DOCX) files, KeyView now outputs the data table for the chart, if the data table would be displayed by Microsoft Word. If the data table is switched off, KeyView outputs the table only if you have configured it to show hidden info.
- **(Security update)** The KeyView .NET API has been hardened against DLL preloading attacks.
- KeyView now supports long directory paths (more than 255 characters) for the KeyView directory arguments to KeyView SDK initialization functions (for example `fpInitWithLicenseData`).
- For `MS_Word_2007_Fmt` documents, when "show hidden text" is configured, KeyView now outputs content for both Choice and Fallback options of `AlternateContent`.

- When retrieving subfile information for subfiles in ZIPs, Microsoft Word (DOCX), Microsoft Excel (XLSX), and Microsoft PowerPoint (PPTX) files, KeyView now reports the CRC32 checksum for any subfiles for which a checksum is stored.
- KeyView can now output sheet names for iWork Numbers.
- The third-party zlib library has been upgraded to version 1.2.12.
- **(Security update)** The third-party openssl library that is included in KeyView builds has been upgraded to version 1.1.1q.

IMPORTANT: The `cryptographyservices.dll` that is included in the KeyView installation still uses openssl 1.1.1n. This DLL is used only for RMS decryption, which is optional and separately licensed.

- KeyView can now optionally return an error when it detects a concatenated zip file at the end of the file, which is a common method used to hide the zip file from security inspection.
- In the Filter C API, you can now enable tab delimited output for spreadsheet files. In this mode, KeyView includes empty cells in the filter output, which might be useful in later processing, such as table extraction mode in IDOL Education.
- A new option has been added to output table delimiters in a way that can be understood by IDOL Education. For the C API, you can use the `KVFLT_OUTPUTTABLEDELIMITERS` option in `fpFilterConfig`. You can also use the `OutputTableDelimiters` configuration option in `formats.ini`.
- The C API sample program `makefiles` have been improved to make them easier to use:
 - They have been renamed to make it easier to identify which makefile to use for your platform.
 - They now follow the standard pattern of placing objects and built binaries in "obj" and "bin" folders.
- KeyView can now extract the subfiles from `Unix_Archive_Fmt` files.
- The third-party libxml2 library has been upgraded to version 2.9.14.
- KeyView now has improved partial extraction support. When using the Extract API, you can open subfiles as an input stream using `fpOpenSubFile()`, and after you have enough of the extracted subfile you can choose to abort retrieving more of it by making the `write()` callback you have provided fail. The list of readers that allow you to abort part way through extracting a subfile has been extended to include `pstxsr`, `pstsr` (for mail body only), `pffsr`, `xlsr`, `mwxsr` (for some subfiles), `kpp97rdr` and `kppPPXrdr`.

Resolved Issues

The following issues were resolved in KeyView Filter SDK version 12.13.0.

- **(Security update)** The third-party p7zip library has been updated to version 17.04 (on LINUX, LINUX_X86_64, LINUX_ARM, MACOS_M1, and MACOS_X86_64 platforms).
- KeyView could terminate unexpectedly in-process, or return an error out-of-process, when performing detection on some ICO files.
- KeyView output invalid characters when processing East Asian numerals in numbered lists in DOCX files.
- KeyView failed to extract 64-bit self extracting RAR_Fmt archives.
- KeyView skipped spaces when formatting numbers in ODF_Spreadsheet_Fmt (ODS) files.
- When filtering spreadsheet headers and footers that use the built-in Sheet Name element, KeyView could output the wrong sheet name.
- KeyView could omit the alt text for some images in Microsoft Word (.docx) formats.
- **(Security update)** A potential command injection attack was fixed on non-Windows platforms.
- **(Security update)** The third-party expat library has been upgraded to version 2.4.9 to resolve known vulnerabilities in that library, including CVE-2022-40674, CVE-2022-25235, CVE-2022-25236, CVE-2022-25313, CVE-2022-25314, CVE-2022-25315, CVE-2022-23852, CVE-2022-23990, CVE-2021-45960, CVE-2021-46143, CVE-2022-22822, CVE-2022-22823, CVE-2022-22824, CVE-2022-22825, CVE-2022-22826 and CVE-2022-22827.
- **(Security update)** The third-party lz4 library has been upgraded to version 1.9.4, which fixes vulnerability CVE-2021-3520.
- When trying to perform extraction with the ExtractImages option enabled, for some PDFs KeyView could exit unexpectedly (in-process), or return an error (out-of-process).
- Hyperlinks from Microsoft Excel (.xlsx) files were not converted to the target character encoding.
- If the REV date in a VCF file had millisecond precision, KeyView failed to parse the date.
- When getting metadata from VCF files, if KeyView was unable to parse any one metadata element, it did not return any metadata.
- KeyView could leak memory when processing some Microsoft Excel documents.
- Hidden text in Microsoft Excel (.xlsx) documents was sometimes missing whitespace and could run into other cell text.
- KeyView did not get all the summary metadata for some HTML files with multiple head/body tags.
- KeyView sometimes missed formatted text in iWork Numbers files.
- Page numbers in PowerPoint (PPTX) presentations were sometimes output as placeholders.

- The C++ API reported the wrong description for some detected formats.
- For some Microsoft Excel (.xlsx) objects, such as text boxes, KeyView failed to output whitespace between consecutive lines of text.
- KeyView could skip embedded images in some DOCX files.
- KeyView could terminate unexpectedly (in-process, stream mode) or report an error (out-of-process, pipe method stream mode) when attempting to process the FILENAME field in Microsoft Word 95 (MS_Word_95_Fmt) documents.

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

Deprecated Features

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

Category	Deprecated Feature	Deprecated Since
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 <code>formats.ini</code> . The methods are still available for existing implemetnations, but they might be removed in future.	12.12
C API	The <code>KVMemoryStream</code> structure and all uses of it are deprecated. <code>KeyView</code> 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 <code>KeyView</code> license information as a file (<code>kv.lic</code>) has been deprecated. In the C API, the function <code>fpInit()</code> has been deprecated. Micro Focus recommends that you use <code>fpInitWithLicenseData()</code> instead, so that your license key is passed to <code>KeyView</code> through the API. You should not include license information in your application as a file. <code>fpInit()</code> is still available for existing implementations, but it might be incompatible with new functionality and might be removed in future.	12.7.0

Documentation

The following documentation was updated for KeyView Filter SDK version 12.13.0.

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