

IDOL

KeyView Export SDK

Software Version 12.12.0

Release Notes



Document Release Date: June 2022
Software Release Date: June 2022

Legal notices

© Copyright 2022 Micro Focus or one of its affiliates.

The only warranties for products and services of Micro Focus and its affiliates and licensors (“Micro Focus”) are as may be set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Micro Focus shall not be liable for technical or editorial errors or omissions contained herein. The information contained herein is subject to change without notice.

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.

To check for updated documentation, visit <https://www.microfocus.com/support-and-services/documentation/>.

Support

Visit the [MySupport portal](#) to access contact information and details about the products, services, and support that Micro Focus offers.

This portal also provides customer self-solve capabilities. It gives you a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the MySupport portal to:

- View information about all services that Support offers
- Submit and track service requests
- Contact customer support
- Search for knowledge documents of interest
- View software vulnerability alerts
- Enter into discussions with other software customers
- Download software patches
- Manage software licenses, downloads, and support contracts

Many areas of the portal require you to sign in. If you need an account, you can create one when prompted to sign in.

Contents

New in this Release	4
Resolved Issues	6
Requirements	7
Notes	8
Documentation	9

New in this Release

This section lists the enhancements to KeyView Export 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 Export 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.
- 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 handles files which contain embedded PHP, but are otherwise valid HTML files. Any embedded PHP is excluded from the output. If you have set KVCFG_WP_SHOWHIDDENTEXT, KeyView outputs the skipped PHP after the HTML content.
- Improved support for embedded images in MS_Outlook_Fmt (.msg) files. KeyView can now correctly interpret embedded image references that use content-ids, and modifies the extracted HTML body so that browsers can resolve the image URLs.
- When you filter or export an RMS-encrypted Office or RPMSG file but have not specified RMS credentials, KeyView returns a new error code, KVErrror_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 HTML Export Reference Implementation (libkvhtmlexport) allows you to configure additional options. In the C API these options are named bUseDocumentColors,

`bGenerateURLs`, `bRemoveEmptyColumns`, and `OutputVectorGraphicType` and you would set them in the structure `KVHTMLOptionsEx`. The sample program `kvhtmlexport` demonstrates how to use these options in the reference implementation and exposes them as options on the command line.

- SVG output for non-windows platforms have significant improvement in text layout when using common fonts.
- KeyView now handles the alpha-channel of Tagged Image File Format (TIFF) images to produce higher fidelity image outputs.
- When highlighting is configured, HTML Export can now detect highlight terms in text from Optical Character Recognition (OCR). When an image is processed using OCR, KeyView displays any detected highlight terms over the image in the output, using the user-defined HTML tags.

NOTE: OCR is licensed separately and is only performed on standalone raster image formats, not embedded images.

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

Resolved Issues

The following issues were resolved in KeyView Export 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.
- 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.
- Only the first file was exported successfully, when attempting to export more than one mail file (EML, MSG) to PDF format in a single PDF Export session.
- The colors from CMYK-based Tagged Image File Format (TIFF) files were not handled correctly, resulting in washed-out looking images.
- 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`.

Requirements

For information about supported platforms, supported compilers, and software dependencies for the KeyView Export SDK, refer to the *KeyView Export 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 `vc_redist` folder of the KeyView SDK but you can [download the latest installers from Microsoft](#) to get the latest security, reliability, and performance improvements.

Deprecated Features

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

Category	Deprecated Feature	Deprecated Since
C API	The <code>KVMemoryStream</code> 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 (<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 KeyView 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 Export SDK version 12.12.0.

- *KeyView Export SDK: HTML Export C Programming Guide*
- *KeyView Export SDK: HTML Export Java Programming Guide*
- *KeyView Export SDK: PDF Export C Programming Guide*
- *KeyView Export SDK: XML Export C Programming Guide*
- *KeyView Export SDK: XML Export Java Programming Guide*