



Customer Engagement

# EngageOne Vault

Version 7.3

## Release Notes

US English Edition  
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## About this release

Vault is part of the EngageOne Suite and this release of Vault 7.3 provides new features/enhancements and fixes to known issues.

### Release content

The features made available by this particular release are listed in “New features & enhancements” on page 7.

The software distribution contain the Vault user guides in Portable Document Format (PDF). These guides are also available on the [DOC1 Support Net website](#).

The products supplied to you will depend on the Vault licenses you hold. Additionally, you will only be able to install products for which you have a valid license keycode. If you believe that you have not received the correct material or keycodes please contact your Vault supplier.

The functions and features that are available with all Vault software are controlled by an XML license file. Your XML license file information will be supplied to you (separately from other release material) typically as an email attachment.

You will be required to supply your license details as part of the various installation processes. Should you experience any difficulties with your license file please contact your Vault supplier.

### Compatibility

#### **Vault**

The current versions of Vault and its clients are fully compatible with earlier versions except for unicode indexes. Unicode indexes may require some processing to accommodate the updates to the sort order. For more information, see “Updating Unicode indexes” in the *Vault Customization Guide*.

## Documentation

The following manuals are available with this release:

Documentation Set	Issue
<b>Vault User Guide</b> For <b>Vault</b> , and <b>Service</b> . This guide provides information about the Vault document repository and step by step instructions for using the various Vault Service clients. The manual is provided in PDF format.	1
<b>Vault Customizing Guide</b> This guide provides comprehensive information for establishing a Vault document repository and configuring the various clients to use it. This guide contains reference information required if you wish to customize the various components that make up the Vault modules. This manual is provided in PDF format.	1
<b>Vault Installation Guide</b> This guide is intended for administrators responsible for installing Vault Server and Vault Service clients. This manual is provided in PDF format.	1
<b>Vault Messages Reference Guide</b> This guide contains detailed information on common error messages encountered by Vault users. Each message contains a detailed description of what happened and what action the user can take to attempt to remedy the issue.	1
<b>Vault CMIS Connector Installation and Configuration</b> This guide provides introductory information about how the Vault CMIS connector operates and how to install it.	1
<b>Vault REST API for EngageOne Server Services Guide</b> This guide describes the The Vault REST API which allows a web-based application service to access a Vault server using REST calls.	1

### Terminology

The term **Windows** is used to mean any version of Microsoft **Windows** operating system which Vault supports. Please see the Vault Installation Guide for more information.

### Conventions used in this document

<i>Italic</i>	User-supplied parameter: e.g. tape number
[ ]	Optional parameters (The square brackets are not typed in): e.g. [-x]
monospaced	Text that you manually type in: e.g. <code>lsattr -E -l rmt0</code>

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## New features & enhancements

### PDF Bookmark and UA tag support

The PDF loading and rendering process for PDF documents in Vault has been enhanced to create a PDF document with bookmarks and UA tags if the original PDF document had bookmarks and UA tags.

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**NOTE:** This only applies to documents loaded into Vault after this release is installed. PDF documents that were loaded using an earlier version of Vault will not have bookmarks in the PDF rendered by Vault.

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The support is disabled by default and is enabled by setting **PDFRenderMode=1** in the `profiles.ini` section for the documents that are to have bookmarks and UA tags preserved. See the *Vault Customizing Guide* for further details.

### Vault password encryption

Configuration files used with some Vault components may contain passwords used to access certain information or services. An example would be passwords used to access Java key stores which are used in managing support for SSL connections. Another example would be database passwords, or connection strings bearing passwords, used when exporting Vault metadata to an external relational database. By default, these settings are stored in plain text within the Vault configuration files.

As of Vault release 7.3, Vault supports encrypting configuration passwords such as these with an external encryption key to reduce the risk of the password exposure. See the *Vault Customizing Guide* for further details.

### Vault socket API challenge mode

As of release 7.3, there is a new optional challenge/response mode to secure access to Vault when using the socket API. This mode works by having the Vault client (Java API, Vault REST, Vault REST Export, Vault CMIS connector, ServiceWeb2 or E2vaultWS (soap interface) identify itself to the Vault service (usually Vault render or Vault router) with a valid id. The Vault service will challenge the client with a token that the client must encrypt with its password and pass back to the service. If the encrypted token matches the expected

token on the service side, the client connection is allowed to proceed to send requests to the Vault service. For further information, see “Authentication” in the *Vault Customizing Guide*.

## Runtime font configuration

When Vault renders AFP input data to PDF output, it must determine how each font should be handled. Normally that is controlled by settings in the fonts.ini configuration file. In some environments where resource sets are being created automatically using DOC1 resource packs, resource extraction or resource deduplication, it may be inconvenient to manage fonts.ini settings. To make the process more streamlined, new options are available to determine the appropriate font handling heuristically at runtime. This option works most effectively with AFP outline fonts that can be embedded in the output PDF, however automatic substitution of bitmap fonts is also an available option.

See the "Runtime Font Configuration" section in the *Vault Customizing Guide* for more details.

## Postscript concurrency controls

With Vault running multiple Postscript rendering operations in parallel, additional controls are needed to handle certain situations that could produce excessive memory use. Typically this happens with Postscript jobs with large header sizes (such as 40MB or more), particularly those loaded with versions of Vault before 7.0. Vault now supports parameters that control the number of header and page fetch operations that are allowed to run concurrently on the server. It now also has parameters that control the number of concurrent Postscript rendering operations at the rendering engine.

See the "Postscript Concurrency Controls" section in the *Vault Customizing Guide* for details.

## Parallel Postscript by default

Previous versions of Vault supported running multiple Postscript rendering operations in parallel using the optional **GhostscriptParallel=1** setting. This is disabled by default because of concerns about potential compatibility issues such as streams writing to the file system. In order to detect potential compatibility issues, a new option has been added,



**GhostscriptSafer=1**, which passes a setting to Ghostscript to block many types of unsafe operations including file writes. Both options are now enabled by default allowing parallel rendering of Postscript streams out of the box.

## PDF section bookmarks

Vault provides a way to list sections of a document based on entries in journals provided when the data is initially loaded. These sections are stored as part of the document metadata. When AFP or Metacode documents are rendered to PDF, these sections are converted to bookmarks in the output. Previously this behavior could not be suppressed. Vault now supports the profile option **PDFSectionBookmarks=0** which prevents these bookmarks from being created if so desired.

## Purge storage model improvements

A change has been made to the purge process to improve the efficiency of the scanning process when used with a storage model. The process now determines the shortest retention period of any profile and uses that to bypass the scan of storage model directories that are beyond that point. In common scenarios, the scanning activity can be reduced substantially.

For more on purging, see the “ADM Vault Purging” and “Document Expiry” section. For more on storage model, see the “Server initialization file” section of the *Vault Customizing Guide*.

## Mirror and Purge windows

New configuration options for the mirror and purge process have been added that control the time of day these processes are allowed to run. The **[mirror1]** and **[purge1]** sections of the `e2loaderd.ini` file now supports **begin=** and **end=** options that specify the time window in 24 hour time.

For more on purging, see the ADM Vault Purging / Document Expiry section. For more on mirroring, see the ADM Vault replication section of the *Vault Customizing Guide*.

## Export Purge deletions

A new profile option, **ExportPurge=1**, has been added to allow the purge process to trigger the deletion of metadata previously exported by the ODBC or REST Export process. This allows an external database to more accurately reflect the current state of data loaded into Vault. This option requires that the export delete settings be configured.

For more details, see the “ODBC Export” and “REST Export” sections of the *Vault Customizing Guide*.

## ServiceWeb2 changes

A new setting (textEncoding) has been introduced into the ServiceWeb2 client that allows you to control the charset used when rendering in text mode. See "ServiceWeb2 Configuration parameters" in the *Vault Customizing Guide* for further details.

A new setting (sslenabled) has been introduced that will indicate whether SSL support is intended to be used by the ServiceWeb2 web client when it is communicating with the Vault server. Previously, setting the values for properties ssltruststorepath and ssltruststorepassword as a group or sslkeystorepath, sslkeystorepassword and sslkeypassword as a group would enable SSL but this frequently led to an incomplete SSL setup. With this change, SSL support will not be enabled unless sslenabled is set to 1.

ServiceWeb2 will now attempt to display documents that stored in Vault using format=html in profiles.ini. The display experience will vary depending on the browser being used.

## Fixed Issues/Changes in behavior

The following fixes have been applied in this release.

<b>Fixed Issues</b>	<b>Description</b>
EVA-2312	Under certain circumstances, file writes from an indexing operation (using the Indexer as a Service under Windows) can cause a 665 error due to excessive fragmentation of the underlying file structure. This has been corrected.
EVA-2313	If a document uses a resource that was part of a resource pack (HIP file from Generate or EngageOne Server) under Unix, and the resource has trailing spaces in the name, the Vault rendering would be unable to locate the resource. The rendering engine resource search process has been modified to account for possible trailing spaces.
EVA-2314	The presence of a "loading" flag file from a failed collections load could cause the loading of other valid collections from proceeding. This has been corrected.
EVA-2332	The page license check, blocks ODBC export, mirroring and purging from running. This can be an issue for sites where the page count takes a relatively long time. The loader code has been modified to allow the ODBC export, mirroring and purging to run concurrently with the page license check.
EVA-2347	Under Windows, the O/S method of aggressively caching files used by Vault as random access, can cause other applications on the same server to be paged out of memory. A new server.ini setting has been added (DisableRandomAccessFlag=1) to reduce this effect for Vault files. This may impact the performance of the Vault system.
EVA-2360	ServiceWeb2 will generate a null pointer exception when an account is selected that does not have any associated documents. This has been corrected to display a "no results ..." message instead.
EVA-2375	The ServiceWeb2 client would generate an error when trying to display Vault data stored as data type html. This has been corrected.
EVA-2382	The Vault loader may go into a processing loop when processing an invalid TIFF file where the next page pointer points past the end of the TIFF file. This has been corrected.
EVA-2421	An AFP job failed to render when the object area descriptor used the color specification triplet. This has been corrected.
EVA-2427	The standard Unicode journal document build mode (Documents=ujournal) was processing lines with leading white space causing loader errors. These lines are now ignored.

<b>Fixed Issues</b>	<b>Description</b>
EVA-2434	Loading of a PDF file would fail with ERROR 50043 due to an error in handling the default predictor for compressed PDF streams. This has been corrected.
EVA-2435	If the time taken to render a Postscript job exceeds the Postscript timeout value, the render request may not return a result. This has been corrected.
EVA-2436	AFP T.6 compressed images rotated 90 degrees clockwise would be positioned to the right of the expected location and possibly off page. This has been corrected.
EVA-2442	The Enhanced Resource deduplication was not handling the scenario where resource sets had all the same named resources but the same resources were different at the content level. This has been corrected.  The Enhanced Resource deduplication has a memory leak that would eventually cause the loader to exhaust its memory pool. This has been corrected.
EVA-2438	When using the ServiceWeb2 client under the Chrome browser to open a PDF file, the PDF display would not be the correct size. This has been corrected.

## Errata

1. The desktop client will not correctly encrypt a PDF file if the PDF password is encrypted using the Vault password encryption model.