



# EngageOne™ Enrichment

Version 7.4.4

## Release Notes

EngageOne™ Enrichment is part of the EngageOne™ family of software. This release of EngageOne™ Enrichment 7.4.4 contains new features, enhancements, fixes to certain reported issues and security updates. Software and associated documentation is provided as a download.

For the protection of our customers, Precisely does not disclose, discuss or confirm security issues. Keeping your software up to date is one of the most important things you can do to maintain your environment's security. Precisely strongly encourages customers to stay current by upgrading to the latest release for EngageOne™ Enrichment.

### Contents:

---

Release content.....	2
Changes in this release .....	2
Localization.....	4
Security.....	4
Compatibility.....	5
Documentation.....	6
Customer Support .....	7
Supported Operating Systems.....	7
Fixed issues in this release.....	8
Fixed issues in previous releases.....	9
Release lifecycle.....	12
Advance retirement notices .....	13
Withdrawn support .....	13
Added support .....	15
Notices.....	16



# Release content

Software and associated documentation are provided as a download. The products supplied to you from the downloaded release media will depend on the licenses you hold, and 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 product supplier.

## Changes in this release

This release is an update to an earlier release and contains new features as listed below, and fixes to reported problems described in the [Fixed issues in this release](#) on page 8. Release updates are cumulative and incorporate changes from all previous releases.

Refer to [Added support](#) on page 15 and [Withdrawn support](#) on page 13 for detailed information.

### *IBM AIX support*

EngageOne™ Enrichment execution on IBM AIX operating systems is supported on AIX 7.3 versions

### *IBM z/OS support*

EngageOne™ Enrichment execution on IBM z/OS operating systems is supported on z/OS 2.4 versions

### *Minimum Linux OS and glibc requirement for PDF processing*

Enrichment Engine 7.4.4+ PDF processing on Linux OS using:

```
../bin64/sweaverF
```

requires a minimum RHEL 8+ / SUSE 12+ / Linux OS equivalents, and matching minimum C runtime library glibc 2.22 / GLIBCXX\_3.4.20 or higher.

Linux OS RHEL/CentOS 7.x / glibc 2.17-2.21 are not supported for PDF processing from this release.

## Tags

### New tags

The following new tags are available in this release:

Tag	Description
<INDEXNAME>	Identifies the variable used to populate the fully-qualified name triplet in BNG records for the &lt;AFPINDEX> group instead of the default method.
<REMOVEREG>	Specifies whether Enrichment will remove the Resource Environment Group from AFPDS files.

### Changed tags

The following tag has been changed in this release:

Tag	Description
<HYPERLINK>	If the value of the URL is a number, the link will be created with a link to that page in the PDF file rather than a traditional URL. For example, <HYPERLINK> 2 will create an internal link to the second page of the PDF file.

## System variables

The following system variables have been added in this release:

Function	Changes
%%PAGE_ANNOTATIONS	The list of different kinds of annotations on the current PDF page.
%%NUM_PAGE_ANNOTATIONS	The number of annotations on the current PDF page.
%%DOC_ANNOTATIONS	The list of different kinds of annotations on the current PDF document.
%%NUM_DOC_ANNOTATIONS	The number of annotations on the current PDF document.

## Environment variables

No new environment variables in this release.

## Messages

The following new message is included in this release:

Message number	Message description
PDR1311S	This message is issued when there are more than 100 <SORT> tags in the <SORTMATCH> group.
PDR3243S	A value other than YES or NO for the <REMOVEREG> tag was supplied.

## Localization

EngageOne™ Enrichment is available in English only.

## Security

### *Licensing*

It is important to note that from EngageOne™ EngageOne™ Enrichment v7.3.0 onwards, new licensing is required. If you are upgrading from version 7.2.5 or earlier please contact [support](#) for assistance in obtaining a new license key.

### *Vulnerability scanning*

In this release, security findings in Enrichment Editor identified through vulnerability scanning have been remediated.

# Compatibility

This version of EngageOne™ Enrichment is compatible with Finalist 10.0, 9.22.0, 9.21.0 and all subsequent maintenance releases.

# Documentation

The following manuals are available for EngageOne™ Enrichment in PDF format. The [EngageOne™ Enrichment support page](#) contains the most up-to-date documentation for this release.

Note that a subset of the documentation is also available as help.

## **EngageOne™ Enrichment Editor User Guide**

How to use this web-based application to design and test EngageOne™ Enrichment applications.

---

## **EngageOne™ Enrichment Developer Guide**

Information on constructing an EngageOne™ Enrichment application. Includes how to code some of the most commonly-used processes, such as adding barcodes, sorting and CASS processing.

---

## **EngageOne™ Enrichment Installation Guide**

Installation instructions for all platforms (Windows, UNIX/Linux, and Mainframe).

---

## **EngageOne™ Enrichment Language Reference**

Contains details of all the EngageOne™ Enrichment tags, functions, and system variables.

---

## **EngageOne™ Enrichment Messages Reference**

Comprehensive listing of all error messages.

---

## **EngageOne™ Enrichment PCE Migration Guide**

How to migrate from DOC-1 PCE to EngageOne™ Enrichment.

---

## **EngageOne™ Enrichment Reprint User Guide**

How to use the reprint language.

---

## **EngageOne™ Enrichment Sample Applications Guide**

Samples that explain how new features, tags, functions, variables and so on, can be used to create Enrichment applications.

---

## **EngageOne™ Enrichment Visual Engineer User Guide**

How to use Visual Engineer to develop control files.

# Customer Support

If you find that you require any assistance, then you can [contact our Support team](#) .

# Supported Operating Systems

Refer to the EngageOne™ Enrichment Installation Guide for detailed information on supported operating systems.

## Fixed issues in this release

This section describes the issues that are now been resolved with this release of the software.

Key	Summary
PRE-00691482	Using more than 10 <SORT> tags could cause the program to fail. <b>Resolution:</b> This limit has been increased to 100, and a message issued if reached.
PRE-00690283	The Resource Environment Group is no longer automatically deleted when present above page 1 in an AFPDS file. <b>Resolution:</b> <REMOVEREG> can optionally remove the Resource Environment Group.
PRE-00544997	Calling Finalist 10 did not produce expected results. <b>Resolution:</b> Finalist 10 implementation has been corrected.
PRE-00696423	The <SMARTMCFS> tag did not take into account fonts used by MDR records. <b>Resolution:</b> Using <SMARTMCFS> now takes into account fonts used in MDR records.
PRE-00705763	Using <ALLOW> PAGECOUNT and having an empty <BANNER> caused anabend <b>Resolution:</b> This has been resolved.
PRE-00102957	PDF performance has been improved. See Whitepaper for details.



# Fixed issues in previous releases

Key	Summary
<b>Enrichment 7.4.3</b>	
PRE-00516697	<p>External fonts were not correctly embedded into the output file when adding text to PDF documents.</p> <p><b>Resolution:</b> The underlying code responsible for this process is updated to ensure external fonts are correctly embedded.</p>
PRE-00439019	<p>Some Visual Studio runtimes were missing from the Enrichment engine installation.</p> <p><b>Resolution:</b> The missing runtimes are now included in the installation.</p>
PRE-00467581	<p>PBSSTTYALT has been added as an alternative environment variable for storing the key. This is used to facilitate upgrade testing.</p>
PRE-00513508	<p>EngageOne™ Enrichment can abend when processing large PDF files.</p> <p><b>Resolution:</b> &lt;CACHEPDFPAGES&gt; has been added to limit memory usage for very large PDF files.</p>
PRE-00516892	<p>For the Graphic AFP viewer in Visual Engineer, some AFP files with vertical lines were rendered incorrectly, or could cause an abend.</p> <p><b>Resolution:</b> The underlying code responsible for this process is updated to ensure AFP files with vertical lines are rendered correctly.</p>
<b>Enrichment 7.4.2</b>	
PRE-00446127	<p>Using large PDF documents with the &lt;REORDER&gt; tag may cause an abend. The underlying code has been updated to resolve this issue.</p>

Key	Summary
PRE-00451259	Certain construction of control files, such as using %%EMPTY_PAGE or <SMARTMCFs> could cause memory to be wasted on z/OS. The underlying code has been updated to resolve this issue.
PRE-00436012	Enrichment applications that generated PDR2251W using a field name of longer than 24 characters may cause an abend. The underlying code has been updated to resolve this issue.
STREAMWEAVER-3007	Enrichment PDF applications using <DOC> BOOKMARK could take an extremely long time for large files. The underlying code has been updated to resolve this issue.
PRE-00428749	<b>Visual Engineer</b> - this issue was observed when opening a PDF printstream as follows: <ol style="list-style-type: none"> <li>1. Open a PDF printstream and then close it.</li> <li>2. The Visual Engineer application aborts when attempting to open any subsequent PDF printstream.</li> </ol>
PRE-00429810	There was previously no mechanism to add on-demand overlays from outside the print file. For this reason, <RESOURCEINDIR> was created.
PRE-00432313	Text was not being added at the end of the PDF page structure and was made not visible by some PDF objects.
PRE-00436012	The Enrichment engine was issuing incorrect return codes when long field names were used under certain scenarios.
PRE-00437763	A performance degradation was experienced when using the <DYNFILE> tag to split a file relative to the prior PDF solution.
<b>Enrichment 7.4.1</b>	
STREAMWEAVER-3416	When attempting to execute a search from the Enrichment Editor's dashboard, the logged-in user is logged out of the system.

Key	Summary
STREAMWEAVER-3333	This issue was observed in Visual Engineer 7.4.0. The Graphic Viewer issued an "Error: 3" error when opening a password-protected PDF, despite the <PDFUSERPASSWORD> used in the <INPUT> tag.
STREAMWEAVER-3271	The Enrichment engine became unstable when processing certain AFP files. AFP files have MDR records in a resource environment group (BSG/ESG). The issue was observed when performing certain operations with fonts, for example, when using the <WINDOW> tag.
STREAMWEAVER-3263	An exception was thrown when using the <WINDOW> tag with equal X or Y coordinates. Enrichment was issuing a severe error, or became unstable if a <WINDOW> <FIELD> contained matching X or matching Y coordinates.
STREAMWEAVER-3236	Prior to version 7.4.0, there was an issue in the Enrichment licensing module, which infrequently caused Enrichment to become unstable on certain versions of Windows. Rerunning the application was successful. This issue is corrected in Enrichment version 7.4.0 and above.
<b>Enrichment 7.4.0</b>	
STREAMWEAVER-2908	The <POSITION> tag using variables was not working for PDF output. <POSITION>. Variable handling has been updated to fix this issue.
STREAMWEAVER-2875	This issue was observed when identifying the top of document using <DOC> T variable CHANGE.
STREAMWEAVER-2870	Issues when replacing a field within the input tag group in PDF. The issue was fixed by replacing text that has a PDF transformation matrix applied to it.
STREAMWEAVER-2791	Streamweaver abends when processing long PCL records. PCL. The underlying code has been updated to correct this issue.
STREAMWEAVER-2520	Issue with the AFP Viewer in Visual Engineer using Enrichment version 7.2.5. An Alternate Graphic Viewer option has been added in the Environment dialog.

# Release lifecycle

Release Version		Level of Support
EngageOne™ Enrichment 7.4.4	GA	Investigate, Troubleshoot issues, Provide workarounds, Regular patches, Vulnerability updates.
EngageOne™ Enrichment 7.4.3	GA - 1	Investigate, Troubleshoot issues, Critical security issue patches, Provide workarounds for non-critical issues.
EngageOne™ Enrichment 7.4.2	GA - 2	Troubleshoot issues, Investigate, Workarounds.
EngageOne™ Enrichment 7.4.1	All releases GA-3 and below	Knowledge base support only.

# Advance retirement notices

## *RHEL / CentOS 7.x - 7.9 (Linux OS Kernel 3.10.x) end of support*

As of June 30th, 2024, vendor support for the final RHEL 7.x release, RHEL 7.9 and the matching CentOS 7.9 will end in line with the vendor published life-cycle policy.

<https://www.redhat.com/en/blog/end-maintenance-red-hat-enterprise-linux-7-almost-here>

Continued operation of this product from this date will require a minimum supported RHEL 8.x operating system for RHEL or RHEL kernel compatible operating systems - kernel 4.18.x and glibc 2.24 or later.

# Withdrawn support

## *From EngageOne™ Enrichment 7.4.4*

Support for 32-bit Enrichment, except for the z/OS version is withdrawn.

## *From EngageOne™ Enrichment 7.4.2*

Support for Windows 2012 R2 is withdrawn.

## *From EngageOne™ Enrichment 7.4.1*

Support for zLinux is withdrawn.

## *From EngageOne™ Enrichment 7.4.0*

Support for the following operating systems are withdrawn:

- Microsoft Windows Server 2008
- RHEL 5+
- HP-UX 11.23 (PA-RISC)
- Solaris 9
- Solaris 10
- Aix 6.1

**Note:** Although you may continue to use the earlier operating system levels, support for these, including product fixes, is no longer available. We therefore, recommend your earliest migration to one of the current vendor supported levels listed below:

- Microsoft Windows Server 2012 R2
- Microsoft Windows Server 2016
- Microsoft Windows Server 2019
- Z/OS 2.2
- Z/OS 2.3
- RHEL 7.7
- HP-UX 11.31i (Itanium)
- SUN Solaris 11.4 on SPARC
- Aix 7.1

The following operating systems are retired from EngageOne™ Enrichment:

- Windows 7
- Suse Linux 10

# Added support

## *EngageOne™ Enrichment 7.4.4 onwards*

- AIX 7.3
- z/OS 2.4

## *EngageOne™ Enrichment 7.4.2 onwards*

- Windows 2022 Server
- Windows Server 2019

## *EngageOne™ Enrichment 7.4.0 onwards*

- CentOS 7.7

# Notices

**Copyright © 1993, 2024 Precisely. All rights reserved.**

ConnectRight Mailer is a trademark of Pitney Bowes. All other marks and trademarks are property of their respective holders.

Precisely holds a non-exclusive license to publish and sell ZIP + 4® databases on optical and magnetic media. The following trademarks are owned by the United States Postal Service: CASS, CASS Certified, DPV, eLOT, FASTforward, First-Class Mail, Intelligent Mail, LACSLink, NCOALink, PAVE, PLANET Code, Postal Service, POSTNET, Post Office, RDI, SuiteLink, United States Postal Service, Standard Mail, United States Post Office, USPS, ZIP Code, and ZIP + 4. This list is not exhaustive of the trademarks belonging to the Postal Service.

Precisely Inc. is a non-exclusive licensee of USPS® for NCOALink® processing.

Prices for Precisely products, options, and services are not established, controlled, or approved by USPS® or United States Government. When utilizing RDI™ data to determine parcel-shipping costs, the business decision on which parcel delivery company to use is not made by the USPS® or United States Government.

ICU License - ICU 1.8.1 and later

Copyright (c) 1995-2006 International Business Machines Corporation and others

EngageOne™ Enrichment PDF Reader Powered by Foxit. Copyright (c) 2003-2021 by Foxit Software Incorporated. All rights reserved.

Portions of this software are copyright © 2023 The FreeType Project (<http://www.freetype.org>). All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

Otherwise all product names are trademarks or registered trademarks of their respective holders.





1700 District Ave Ste 300  
Burlington, MA 01803-5231  
USA

[www.precisely.com](http://www.precisely.com)

Copyright 1993, 2024 Precisely



## Documentation Feedback

You can help us to improve our product documentation by sharing your comments and feedback with us.

Please use the Adobe Acrobat Comments functionality to highlight any issues or to comment on a specific part of this document. Note that you will need to download this document to use the feedback option when viewed in a web browser.

If you are reading this document in hard copy and want to send us feedback, you may email us at [EngageOneInformationDevelopers@precisely.com](mailto:EngageOneInformationDevelopers@precisely.com) with the subject line "Documentation Feedback" and including the document information below

---

Document Title::

Software Version:

Last updated date:

---

Additional comments

