

# **Event Replicator for Adabas**

## **Release Notes**

Version 3.8.1

October 2021

This document applies to Event Replicator for Adabas Version 3.8.1 and all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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# 1 Release Notes

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Software AG's Event Replicator for Adabas allows specific Adabas files to be monitored for data modifications. Whenever any record modification (delete, store, or update) occurs in one of the monitored files, the Event Replicator for Adabas extracts each modified record and delivers it to one or more target applications through a messaging system (such as webMethods EntireX or IBM WebSphere MQ). The set of replicated files or records are defined in a *subscription*.

The Event Replicator for Adabas is an essential tool for organizations that need Adabas data modifications delivered to a target application while minimally impacting the normal processing of Adabas. The principle features of the Event Replicator for Adabas include:

- Near real-time replication
- Asynchronous replication
- Guaranteed consistency and sequence of the delivered replicated data
- Replication of committed updates only

With the Event Replicator for Adabas, whole Adabas files or a specific set of records can be replicated to the target location, as defined in a subscription. Data replication is asynchronous, which allows the Adabas database to operate normally while replication takes place. Only committed Adabas modifications are replicated for the predefined set of monitored files, at the transaction level.

For complete information about Event Replicator for Adabas concepts and how to get started, read the *Event Replicator for Adabas Concepts*. For information on system requirements and how to install Event Replicator for Adabas, read , in *Event Replicator for Adabas Installation Guide*.

This document provides information about release 3.8 of Event Replicator for Adabas:

<i>3.8 Enhancements</i>	Describes the new and changed features in this version of Event Replicator for Adabas.
<i>ZAP Information</i>	Describes any zap requirements for this version of Event Replicator for Adabas.
<i>Adabas and Event Replicator Server Compatibility</i>	Describes the compatibility of the Event Replicator Server with Adabas.
<i>zIIP Support</i>	Describes any zIIP-related requirements for this version of Event Replicator for Adabas.
<i>End of Maintenance</i>	Describes how you can determine the end-of-support dates for your Software AG products.
<i>Documentation and Other Online Information</i>	Describes the documentation and other online information you can obtain for this release of Event Replicator for Adabas.

## 2 About this Documentation

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## Document Conventions

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Convention	Description
<b>Bold</b>	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <i>folder.subfolder.service</i> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies:  Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies:  Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the   symbol.
[ ]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [ ] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

## Online Information and Support

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### Software AG Empower Product Support Website

If you do not yet have an account for Empower, send an email to [empower@softwareag.com](mailto:empower@softwareag.com) with your name, company, and company email address and request an account.

Once you have an account, you can open Support Incidents online via the eService section of Empower at <https://empower.softwareag.com/>.



You can find product information on the Software AG Empower Product Support website at <https://empower.softwareag.com>.

To submit feature/enhancement requests, get information about product availability, and download products, go to [Products](#).

To get information about fixes and to read early warnings, technical papers, and knowledge base articles, go to the [Knowledge Center](#).

If you have any questions, you can find a local or toll-free number for your country in our Global Support Contact Directory at [https://empower.softwareag.com/public\\_directory.aspx](https://empower.softwareag.com/public_directory.aspx) and give us a call.

### **Software AG TECHcommunity**

You can find documentation and other technical information on the Software AG TECHcommunity website at <http://techcommunity.softwareag.com>. You can:

- Access product documentation, if you have TECHcommunity credentials. If you do not, you will need to register and specify "Documentation" as an area of interest.
- Access articles, code samples, demos, and tutorials.
- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

## **Data Protection**

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Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.



# 3

## 3.8 Enhancements

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This chapter describes the Event Replicator for Adabas 3.8 enhancements.

Category	Enhancements
General Enhancements	<i>New and Changed Event Replicator Server Initialization Parameters</i>
	<i>New and Changed Event Replicator for Adabas Utility Functions</i>
	<i>New Functional Level Security Checks in the Event Replicator for Adabas Utilities</i>
	<i>New DESTINATION DCLASS Parameter SAGTRGB</i>
	<i>New and Changed TRACE Settings for DESTINATION DCLASSPARM Replication Initialization Parameter</i>

## New and Changed Event Replicator Server Initialization Parameters

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The following table summarizes any new or changed Event Replicator Server initialization parameters or subparameters in Event Replicator for Adabas 3.8:

Parameter	New or Changed?	Description
DESTINATION DCLASS SAGTRGB	New	Specify the DESTINATION DCLASS parameter SAGTRGB if you wish to produce output in a binary raw data format that can be processed by the Event Replicator Target Adapter.
DCLASSPARM TRACE	New	New sub-parameter DCLASSPARM TRACE settings are available for SAGTRGB.
DCLASSPARM OPTIONS	Changed	The OPTIONS keyword parameter values for OPTIONS=1 and OPTIONS=32 are changed. OPTIONS=32 did include to send the full image on updates and inserts. The inserts have been removed from this option and instead assigned to OPTIONS=1, thus allowing the users to choose, if they want it separate from the updates.

Information on all Event Replicator Server initialization parameters is provided in *Event Replicator Initialization Parameters*, in the *Event Replicator for Adabas Reference Guide*

## New and Changed Event Replicator for Adabas Utility Functions

This section describes the changes made to utilities for Event Replicator for Adabas 3.8. For complete information about all utilities for Event Replicator for Adabas 3.8, read *Utilities Used with Replication*, in the *Event Replicator for Adabas Reference Guide*.

Utility Function	New or Changed?	Enhancement Description
ADARIS DCLASSPARM OPTIONS	Changed	The OPTIONS keyword parameter values for OPTIONS=1 and OPTIONS=32 are changed. OPTIONS=32 did include to send the full image on updates and inserts. The inserts have been removed from this option and instead assigned to OPTIONS=1, thus allowing the users to choose, if they want it separate from the updates.

## New Functional Level Security Checks in the Event Replicator for Adabas Utilities

The following table summarizes any new functional level Security Checks in Event Replicator for Adabas utilities for 3.8:

Utility Function	New or Changed?	Enhancement Description
ADARPL	Changed	ADARPL now has SAF security functional-level checks, including at the file level.
ADARPP	Changed	ADARPP now has SAF security functional-level checks.
SYSAOS	Changed	SAF security checks at the Adabas nucleus function level from SYSAOS for Replication information.
SYSRPTR	Changed	SAF security checks at the Adabas nucleus function level from SYSRPTR for Replication information.

## New DESTINATION DCLASS Parameter SAGTRGB

Specify the new DESTINATION DCLASS parameter SAGTRGB if you wish to produce output in a binary raw data format that can be processed by the Event Replicator Target Adapter.

## **New and Changed TRACE Settings for DESTINATION DCLASSPARM Replication Initialization Parameter**

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For the Event Replicator Server initialization parameter DESTINATION new sub-parameter DCLASSPARM TRACE settings are available for SAGTRGB.

## 4 ZAP Information

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**Important:** Be sure that you apply all supplied Event Replicator maintenance and concatenate Event Replicator patch-level libraries (L00*n*), as they are delivered to you. This will ensure that your Event Replicator code remains up-to-date, supporting all Event Replicator features as they are enhanced and maintained. The latest zaps for this product are available in the Knowledge Center in Software AG's Empower (<https://empower.softwareag.com>) web site.





## 5 Adabas and Event Replicator Server Compatibility

The following rules must be followed when using an Adabas source database with an Event Replicator Server:

1. The Adabas version used in the Event Replicator Server must be greater than or equal to the Adabas version used in the source Adabas nucleus, and
2. The Event Replicator for Adabas version used by the Event Replicator Server must be greater than or equal to the Event Replicator version used in the source Adabas nucleus.

The following table shows the allowed combinations of Adabas and Event Replicator for both the nucleus and the Event Replicator Server:

Source Adabas Nucleus	Event Replicator Server
Adabas 8.5 SP1 or later and Event Replicator 3.8 SP1	Adabas 8.5 SP1 or later and Event Replicator 3.8 SP1 or later.
Adabas 8.4 SP1 or later and Event Replicator 3.8 SP1	Adabas 8.5 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.8 SP1 or later.
Adabas 8.3 SP1 or later and Event Replicator 3.8 SP1	Adabas 8.5 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.3 SP1 or later and Event Replicator 3.8 SP1 or later.
Adabas 8.4 SP1 or later and Event Replicator 3.7 SP1	Adabas 8.5 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.7 SP1 or later.
Adabas 8.3 SP1 or later and Event Replicator 3.7 SP1	Adabas 8.5 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.7 SP1 or later. Adabas 8.3 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.3 SP1 or later and Event Replicator 3.7 SP1 or later.
Adabas 8.4 SP1 or later and Event Replicator 3.6 SP1	Adabas 8.5 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.7 SP1 or later.

Source Adabas Nucleus	Event Replicator Server
	Adabas 8.4 SP1 or later and Event Replicator 3.6 SP1 or later.
Adabas 8.3 SP1 or later and Event Replicator 3.6 SP1	Adabas 8.5 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.7 SP1 or later. Adabas 8.4 SP1 or later and Event Replicator 3.6 SP1 or later. Adabas 8.3 SP1 or later and Event Replicator 3.8 SP1 or later. Adabas 8.3 SP1 or later and Event Replicator 3.7 SP1 or later. Adabas 8.3 SP1 or later and Event Replicator 3.6 SP1 or later.



**Note:** The term "or later" in the table above indicates a later SM within the same version and release of the product unless otherwise noted.

These combinations provide you with flexibility when upgrading your levels of Adabas and Event Replicator. If you are an existing user of Event Replicator, you might have multiple Adabas 8.3 nuclei running replication (REPLICATION=YES) and Event Replicator 3.6 or 3.7. You might also have multiple Event Replicator Servers running with Adabas 8.4 and Event Replicator 3.7 or 3.8. The compatibility combinations listed above mean you are not forced to upgrade all of your Adabas nuclei and Event Replicator Servers at the same time. You might first upgrade your Event Replicator Server software before you upgrade your Adabas nuclei later. In addition, you can upgrade one Adabas nucleus at a time.

# 6      zIIP Support

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zIIP support by the Event Replicator for Adabas, is a feature that enables the Event Replicator Server on z/OS to offload part of its workload from the mainframe's general processors (GP) to System z Integrated Information Processors (zIIP).

Offloading work from the general processors will free up some of their capacity. This helps decrease the total cost of operation (TCO) of the GPs and makes room for running additional workload on them.

## Relationship with Adabas for zIIP

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To be able to support zIIPs, the Event Replicator Server must run with an Adabas version that provides zIIP support. For this version of Event Replicator for Adabas, use either Adabas version 8.5 SP1, Adabas for zIIP version 8.4 SP3 or Adabas for zIIP version 8.3 SP5.

Adabas source databases that send replication data to the Event Replicator Server may - but need not - support zIIPs, too. This is independent of whether the Event Replicator Server supports zIIPs. To run an Adabas source database with zIIP support, use either Adabas version 8.5 SP1, Adabas for zIIP version 8.4 SP3 or Adabas for zIIP version 8.3 SP5.

With Event Replicator for Adabas 3.8 SP1, use one of the following combinations of Adabas and the Event Replicator in the Adabas source databases and the Event Replicator Server:

Source Adabas Nucleus	Event Replicator Server
Adabas 8.5 SP1, Adabas for zIIP 8.4 SP3, Adabas 8.4 SP2, Adabas for zIIP 8.3 SP5, or  Adabas 8.3 SP4 and  Event Replicator for Adabas 3.8 SP1 or 3.7 SP1 or 3.6 SP1	Adabas 8.5 SP1 and  Event Replicator for Adabas 3.8 SP1 or 3.7 SP1
Adabas for zIIP 8.4 SP3, Adabas 8.4 SP2, Adabas for zIIP 8.3 SP5, or  Adabas 8.3 SP4 and  Event Replicator for Adabas 3.8 SP1 or 3.7 SP1 or 3.6 SP1	Adabas for zIIP 8.4 SP3 and  Event Replicator for Adabas 3.8 SP1 or 3.7 SP1
Adabas for zIIP 8.3 SP5 or Adabas 8.3 SP4 and  Event Replicator for Adabas 3.8 SP1 or 3.7 SP1 or 3.6 SP1	Adabas for zIIP 8.3 SP5 and  Event Replicator for Adabas 3.8 SP1 or 3.7 SP1

## Installation

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Prerequisites and additional information to enable zIIP support in the Event Replicator for Adabas are described in a new separate section *Special Considerations for zIIP Support* under *Event Replicator Installation Steps for z/OS Systems* in the *Installation* documentation.



## 7 End of Maintenance

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For information on how long a product is supported by Software AG, access Software AG's Empower web site at <https://empower.softwareag.com>.

Log into Empower. Once you have logged in, you can expand **Products** in the left menu of the web page and select **Product Version Availability** to access the Product Version Availability application. This application allows you to review support information for specific products and releases.





## 8 Documentation and Other Online Information

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The following online resources are available for you to obtain up-to-date information about your Software AG products:

## Software AG Documentation Website

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## Software AG TECHcommunity

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You can find documentation and other technical information on the Software AG TECHcommunity website at <http://techcommunity.softwareag.com>. You can:

- Access product documentation, if you have TECHcommunity credentials. If you do not, you will need to register and specify "Documentation" as an area of interest. If you already have TECHcommunity credentials, you can adjust your areas of interest on the TECHcommunity website by editing your TECHcommunity profile. To access documentation in the TECHcommunity once you are logged in, select **Documentation** from the **Communities** menu.
- Access articles, demos, and tutorials.
- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

## Software AG Empower Product Support Website

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You can find product information on the Software AG Empower Product Support website at <https://empower.softwareag.com>. This site requires Empower credentials. If you do not have an Empower user ID and password yet, you will find instructions for registering on this site (free for customers with maintenance contracts).

To submit feature/enhancement requests, get information about product availability, and download products and certified samples, select **Products & Documentation** from the menu once you are logged in.

To get information about fixes and to read early warnings, technical papers, and knowledge base articles, select **Knowledge Center** from the menu once you are logged in.

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