

Adabas for zIIP

Release Notes

Version 8.4.3

October 2018

This document applies to Adabas for zIIP Version 8.4.3 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 Adabas for zIIP 8.4 Release Notes

This document provides information on Adabas for zIIP, a selectable unit of Adabas that enables Adabas to make use of IBM's zIIP engine. Whether running the basic Adabas nucleus, Adabas Cluster Services, or Adabas Parallel Services, Adabas for zIIP enables Adabas on z/OS to offload part of the Adabas workload from the mainframe's general processors (GP) to System z Integrated Information Processors (zIIP).

Offloading work from the GPs 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. Furthermore, the use of Adabas for zIIP may result in performance benefits by increasing the throughput for certain workloads.

Adabas for zIIP 8.4 SP3 provides the same functionality, features and corrective maintenance as Adabas 8.4 SP2, plus the support for zIIPs. It is intended for use in Adabas 8.4 installations that wish to run some of their Adabas workload on zIIPs. Adabas for zIIP supports other selectable units that are integrated into the Adabas nucleus:

- Adabas Caching Facility
- Adabas Cluster Services
- Adabas Delta Save Facility
- Adabas Fastpath
- Adabas Online System
- Adabas Parallel Services
- Adabas Review
- Adabas SAF Security
- Adabas Transaction Manager
- Adabas Vista
- Event Replicator for Adabas

Furthermore, Adabas for zIIP 8.4 SP3 supports the following Adabas utilities:

- ADACHK
- ADACMP
- ADAINV
- ADALOD
- ADAORD
- ADAREP
- ADARES
- ADASAV
- ADAULD

For more information on how Adabas Review and Event Replicator for Adabas support offloading workload to zIIPs, see their respective documentation sets.

This document provides a brief summary of the features in Adabas for zIIP 8.4 SP3, with links for more information to other areas of the Adabas documentation set. New and changed features in Adabas 8.4 up to SP2 are described in the Release Notes for Adabas 8.4 SP2.

This document covers the following topics:

<i>Supported Operating System Platforms</i>	Describes the currently supported operating environments for this version of Adabas.
<i>Enhancements</i>	Describes the new and changed features in Adabas for zIIP 8.4 SP 3, compared with Adabas 8.4 SP2 as well as Adabas for zIIP 8.3 SP5.
<i>Installation and License</i>	Describes where installation and license information for Adabas for zIIP can be found.
<i>Limitations and Restrictions</i>	Lists the limitations and restrictions currently existing in this version of Adabas.
<i>Applying Zaps</i>	Describes general information on where to locate and how to apply Adabas zaps.
<i>Software AG Mainframe Product Compatibility</i>	Describes the compatibility of this version of Adabas with other Software AG mainframe products.
<i>Using COR-based Add-ons</i>	Describes using the COR-based Add-on products Adabas System Coordinator (COR), Adabas SAF Security (AAF), Adabas Fastpath (AFP), Adabas Transaction Manager (ATM), and Adabas Vista (AVI) with this version of 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 Adabas.

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Document Conventions

Convention	Description
Bold	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

Software AG Documentation Website

You can find documentation on the Software AG Documentation website at <http://documentation.softwareag.com>. The site requires credentials for Software AG's Product Support site Empower. If you do not have Empower credentials, you must use the TECHcommunity website.

Software AG Empower Product Support Website

If you do not yet have an account for Empower, send an email to 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.asp 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

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.

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Supported Operating System Platforms

Adabas for zIIP is a selectable unit for Adabas on z/OS. It is suitable for installations with one or more System z Integrated Information Processors (zIIP).

Software AG generally provides support for the operating system platform versions supported by their respective manufacturers; when an operating system platform provider stops supporting a version of an operating system, Software AG will stop supporting that version.

For information regarding Software AG product compatibility with IBM platforms and any IBM requirements for Software AG products, please review the [Product Compatibility for IBM Platforms](#) web page.

Before attempting to install this product, ensure that your host operating system is at the minimum required level. For information on the operating system platform versions supported by Software AG products, complete the following steps.

1. Access Software AG's Empower web site at <https://empower.softwareag.com>.
2. Log into Empower. Once you have logged in, you can expand **Products & Documentation** in the left menu of the web page and select **Product Version Availability** to access the Product Version Availability screen.
3. Use the fields on the top of this screen to filter its results for your Software AG product. When you click the **Search** button, the supported Software AG products that meet the filter criteria are listed in the table below the filter criteria.

This list provides, by supported operating system platform:

- the Software AG general availability (GA) date of the Software AG product;
- the date the operating system platform is scheduled for retirement (OS Retirement);
- the Software AG end-of-maintenance (EOM) date for the product; and
- the Software AG end-of-sustained-support (EOSS) date for the product.



Note: Although it may be technically possible to run a new version of your Software AG product on an older operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider. If you have questions about support, or if you plan to install this product on a release, version, or type of operating system other than one listed on the Product Version Availability screen described above, consult Software AG technical support to determine whether support is possible, and under what circumstances.

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This chapter lists the Adabas for zIIP 8.4 SP3 enhancements.

Category	Enhancements
Adabas for zIIP 8.4 SP3 Enhancements	Adabas 8.4 ADARUN Parameter Enhancements
	Adabas 8.4 Operator Command Enhancements
	zIIP-Related Session Statistics
	Alternative Code Page Conversion System ICS
	zIIP-Related Enhancements Since Adabas for zIIP 8.3 SP5
	Documentation Enhancements

Adabas 8.4 ADARUN Parameter Enhancements

This section describes the ADARUN Parameter enhancements made with Adabas for zIIP Version 8.4 SP3.

■ [ZIIP: Enable zIIP Usage](#)

For more information about any ADARUN parameter, read *Adabas Initialization (ADARUN Statement)*, in the *Adabas Operations Manual*.

ZIIP: Enable zIIP Usage

This release introduces a new ADARUN parameter called `ZIIP`. This parameter controls whether or not Adabas activates the selectable unit Adabas for zIIP (AZPAD). Valid values are YES or NO; NO is the default. Set `ZIIP=YES` to let Adabas offload part of its workload to zIIPs.

The `ZIIP` parameter is valid for z/OS operating environments only. It can be specified for the Adabas nucleus (PROGRAM=ADANUC) and for the following Adabas utilities (PROGRAM parameter):

- ADACHK
- ADACMP
- ADAINV
- ADALOD
- ADAORD
- ADAREP
- ADARES
- ADASAV
- ADAULD

For complete information about the `ZIIP` parameter, read *ZIIP Parameter: Activate Usage of Adabas for zIIP*, in the *Adabas Operations Manual*.

Adabas 8.4 Operator Command Enhancements

This section describes the operator command enhancements made in Adabas for zIIP Version 8.4 SP3 (operator commands for the Adabas nucleus).

- [DPARM Command](#)
- [DZSTAT Command](#)
- [ZIIP Command](#)

DPARM Command

With Adabas for zIIP version 8.4 SP3, the DPARM operator command displays the current value of the ZIIP parameter, as do the ADADBS OPERCOM DPARM function and AOS menu Display Parameters.

DZSTAT Command

Adabas for zIIP Version 8.4 SP3 introduces the DZSTAT operator command. This command can be given to an Adabas nucleus that has been started with `ZIIP=YES`. Use the DZSTAT command to display statistics about the execution of Adabas in SRB mode and TCB mode and about the CPU time consumed on System z Integrated Information Processors (zIIP) and general processors (GP).

In response to operator command DZSTAT, Adabas displays basic zIIP-related statistics. If, additionally, the parameter ALL is specified (`DZSTAT,ALL`), Adabas displays basic and extended zIIP-related statistics.

For more information, refer to *DZSTAT Command*, in the *Adabas Operations Manual*.

The DZSTAT command is also available via the ADADBS OPERCOM DZSTAT function and via AOS menu Display session utilization / zIIP Statistics.

ZIIP Command

Adabas for zIIP Version 8.4 SP3 introduces the ZIIP operator command. Use this command to turn on or off the use of System z Integrated Information Processors (zIIP) in the Adabas nucleus.

Issuing ZIIP=YES will tell the Adabas nucleus to run in SRB mode whenever possible, enabling the use of zIIPs. Issuing ZIIP=NO will tell the Adabas nucleus to always run in TCB mode, using only general processors.

The ZIIP operator command may only be used in an Adabas nucleus that was started with ADARUN parameter ZIIP=YES.

For more information, refer to *ZIIP Command*, in the *Adabas Operations Manual*.

The ZIIP command is also available via the ADADBS OPERCOM ZIIP function and via AOS menu Modify Parameters.

zIIP-Related Session Statistics

Adabas for zIIP prints extensive statistics about its execution in SRB mode and TCB mode and about the CPU time consumed on System z Integrated Information Processors (zIIP) and general processors (GP), both at session termination and before refreshing the statistics in the course of an ADADBS REFRESHSTATS function (subject to the REFSTPRT parameter).

Also, selected zIIP-related statistics are stored in the SYNS-60 Nucleus statistic checkpoints that Adabas creates at regular intervals (see ADARUN parameter INTNAS) and in the SYNS-5B session end / session interval statistics checkpoints. They are displayed by the ADAREP CPEXLIST function.

For details on the zIIP-related statistics, see the section *Monitoring zIIP Usage* in the *Adabas for zIIP* documentation.

Alternative Code Page Conversion System ICS

The Universal Encoding Support (UES) in Adabas for zIIP 8.4 SP3 has been changed to use ICS by default. ICS is a new, alternative code page conversion subsystem. Its use with Adabas was introduced as an option in Adabas 8.4 SP2. ICS is based on International Components for Unicode (ICU V58.2), an open source project initiated by IBM (<http://site.icu-project.org>). ICU is already being used with other Software AG products like Natural for Mainframes and Adabas on Linux, UNIX and Windows.

The code page modules of ICS are provided in the separate *ICS221.Lxxx* load library. If ICS is to be used, this library must be concatenated to the *AZP843.LOAD* library in the Adabas nucleus/utility job or job step.

For the time being, it remains possible to use UES with Software AG's Entire Conversion Services (ECS) code page conversion subsystem. Special zap AY843164 must be applied to use ECS instead of ICS. This zap can be found in member ZAPOPT of the *AZP843.SRCE* library.

ICS does not require the SMARTS runtime system (APS). It supports the same code pages as ECS. When used with Adabas for zIIP, ICS is more efficient than ECS in converting text between code pages.

zIIP-Related Enhancements Since Adabas for zIIP 8.3 SP5

Adabas for zIIP 8.4 SP3 provides the following zIIP-related changes and enhancements since the initial release of Adabas for zIIP with version 8.3 SP5:

- Message texts and this documentation now use the term "general processor" or "GP" to refer to the standard, general purpose processors that execute the traditional mainframe workloads without constraints. Previously, the term "general central processor" or "GCP" was used.
- Additional zIIP-related statistics now report on the CPU time consumed on zIIPs and GPs by all programs executing in the Adabas nucleus address space. Previously, only the zIIP-related statistics for code executing as part of the enclave created by Adabas were reported. The new statistics include CPU time consumed by code executing as part of other enclaves (created, for instance, by Stored Procedures and Triggers running with Natural zIIP, Adabas Review or the Event Replicator for Adabas) as well as CPU time consumed by code running outside any enclave. The new zIIP-related statistics for the entire Adabas nucleus address space offer a fuller picture as to how much of the Adabas processing is actually offloaded to zIIPs. See the section *Understanding the zIIP-Related Statistics* in the *Adabas for zIIP* documentation for further details.
- The layout of the basic and extended zIIP-related statistics has been slightly changed and reorganized.
- Selected, often used Adabas utilities - ADACHK, ADACMP, ADAINV, ADALOD, ADAORD, ADAREP, ADARES, ADASAV, and ADAULD - have been enhanced to support offloading part of their processing to zIIPs.
- Additional products in the Adabas realm support offloading part of their workload to zIIPs:
 - Adabas Review Version 5.1 SP1
 - Entire Net-Work Version 6.4 SP1
 - Event Replicator for Adabas Version 3.7 SP1

Their zIIP support is described in the respective documentation sets

Documentation Enhancements

Information on the basic concepts around zIIP processing can be found in the new *Adabas for zIIP* documentation.

5 Installation and License

Detailed information on the installation of Adabas for zIIP 8.4 SP3 and the required license file can be found in the new section *Installing Adabas for zIIP* of the *Installation for z/OS* documentation.

6 Limitations and Restrictions

There are functional limitations with Adabas for zIIP. The following ADARUN parameters and values are not supported:

- MODE=SINGLE
- MONITOR
- UEX3
- SMGT=YES is supported, but the SMGT abend handler is disabled. If an abend occurs, the Adabas nucleus will go down, as if SMGT=NO.

If a parameter or value not supported by Adabas for zIIP is specified in combination with ZIIP=YES, Adabas aborts its session start with PARM-ERROR 128.

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Applying Zaps



Important: Be sure that you apply all supplied Adabas maintenance and concatenate Adabas patch-level libraries (L00*n*), as they are delivered to you. This will ensure that your Adabas code remains up-to-date, supporting all Adabas 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.

In general, zaps for Adabas components (such as Adabas nuclei, the Adabas router, Adabas utilities) can be applied and made active one component at a time.

- Adabas utility zaps should be applied to the load library. The utility can then be run or rerun to make use of the zap.
- Adabas nucleus zaps should first be applied to the load library. Then the nucleus should be stopped and restarted to activate the zap.
- Adabas router (on z/OS, ADASVC) zaps should first be applied to the load library. Then all Adabas nuclei and other MPM servers running on the router should be stopped and the router should be reinstalled to activate the zap. Finally, the Adabas nuclei and MPM servers should be restarted.

Finally, the distributed source library contains member ZAPOPT, which lists some optional zaps that you may choose to apply for the activation or deactivation of various features and optional user settings of Adabas. A ZAPOPT member will be included with each SM level distribution.

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Software AG Mainframe Product Compatibility

The following table describes Adabas 8.4 compatibility with other Software AG mainframe products, including prior releases of Adabas itself. You may need to upgrade your installation of the software if your existing release is not listed. .



Note: Any exceptions to the product compatibility described here will be covered in the documentation for the specific product.

Product	Compatible Version Levels and Notes
Adabas (ADA)	<p>The version of the Adabas SVC or router (BS2000) used must be the same as or greater than the version of any Adabas database used in your Adabas environment. For example, the Adabas 8.4 SVC/router can be run in the same environment with Adabas 8.3 or 8.4 databases. However, an Adabas 8.4 database cannot run in the same environment with an Adabas 8.3 SVC/router.</p> <p>For any given database (on disk), the Adabas nucleus and utilities of the same version and release level as the database must be used. If you need to convert a database to a higher version or release level, or revert it to a lower version or release level, the ADACNV utility of the higher level must be used.</p> <p>The Adabas link (ADALNK) routines can be used across versions. For example, Adabas 8.4 link routines can be used to issue calls to Adabas 8.3 databases. Software AG recommends that you use the Adabas 8 link routines for all programs that issue Adabas direct calls.</p>
Adabas Bridge for DL/I (ADL)	Version 2.3 SP2 supports Adabas 8.
Adabas Bridge for VSAM (AVB)	Version 5.1 SP1 releases on z/OS 2.1 support Adabas 8.4 databases that do not make use of the expanded features (for example, spanned records, increased limits, or large object fields) available since Adabas 8.3.
Adabas Caching Facility (ACF)	Version 8.4 supports Adabas 8.4 databases and requires the Adabas 8.4 load library, with appropriate Adabas 8.4 zaps applied.

Product	Compatible Version Levels and Notes
Adabas CICS Interface (ACI)	Version 8.4 supports Adabas 8.4 databases, with appropriate Adabas 8.4 zaps applied.
Adabas Cluster Services (ALS)	Version 8.4 supports Adabas 8.4 databases and requires the Adabas 8.4 load library, with appropriate Adabas 8.4 zaps applied.
Adabas Delta Save Facility (ADE)	Version 8.4 supports Adabas 8.4 databases and requires the Adabas 8.4 load library, with appropriate Adabas 8.4 zaps applied.
Adabas Fastpath (AFP)	The minimum supported level of Adabas Fastpath is version 8.2 SP2. For more information, refer to Using COR-based Add-ons.
Adabas IMS Interface (AII)	Version 8.4 supports Adabas 8.4 databases, with appropriate Adabas 8.4 zaps applied.
Adabas Native SQL (SQL)	Version 2.4 SP1 supports Adabas 8 databases that do not make use of the expanded features (for example, spanned records, increased limits, or large object fields) available in Adabas 8.
Adabas Online System (AOS)	Version 8.4 supports Adabas 8.4 databases, with appropriate Adabas 8.4 zaps applied.
Adabas Parallel Services (ASM)	Version 8.4 supports Adabas 8.4 databases and requires the Adabas 8.4 load library, with appropriate Adabas 8.4 zaps applied.
Adabas Review (REV)	Version 4.8 SP2 and above support Adabas 8.4. For more information, refer to your <i>Adabas Review</i> documentation.
Adabas SAF Security z/OS (AAF)	The minimum supported level of Adabas SAF Security is version 8.2 SP2. For more information, refer to Using COR-based Add-ons.
Adabas Statistics Facility (ASF)	Version 8 fully supports all Adabas databases 8.3 SP3 or above databases and expanded features.
Adabas SQL Gateway (ACE)	All currently supported versions of ACE support Adabas 8 databases. Please check the individual release notes for further information on which databases features are supported
Adabas System Coordinator (COR)	The minimum supported level of Adabas System Coordinator is version 8.2 SP2. For more information, refer to Using COR-based Add-ons.
Adabas Text Retrieval (TRS)	<p>Version 2.1 SP4 works with Adabas 8.4 SP1 when the Adabas Text Retrieval 2.1 SP4 hyperdescriptor exit TRSHEx12 is enabled to run with the Version 8 interface by applying zaps TR21454 and TR21455. This hyperdescriptor exit will then only operate with Adabas Version 8. If you then want to run Adabas Text Retrieval 2.1 SP4 with an older Adabas version, you must either undo the zaps or use a copy of the hyperdescriptor exit where zaps TR21454 and TR21455 are not applied. If you do use TR21454 and TR21455, the following additional Adabas Text Retrieval fixes must be applied as prerequisite zaps: TR21420, TR21421, TR21422, TR21423 and TR21424. These zaps can be found in Empower.</p> <p>It is not necessary to use the Adabas Hyperdescriptor Exit Stub in conjunction with Adabas Text Retrieval.</p>
Adabas Transaction Manager (ATM)	The minimum supported level of Adabas Transaction Manager is version 8.2 SP2. For more information, refer to Using COR-based Add-ons.

Product	Compatible Version Levels and Notes
Adabas Vista (AVI)	The minimum supported level of Adabas Vista is version 8.2 SP2. For more information, refer to Using COR-based Add-ons .
Data Archiving for Adabas (ADR)	Data Archiving for Adabas is compatible with all supported versions of Adabas in z/OS environments.
Entire Net-Work (WCP)	Version 6.3 and above fully support Adabas 8 databases and expanded features, as well as ACBX interface direct calls.
Entire System Server (NPR)	Entire System Server Version 3.5 and later versions fully support Adabas 8 databases and expanded features.
Event Replicator for Adabas (ARK)	Version 3.5 SP4 and above support Adabas 8.4. For more information, refer to your Event Replicator for Adabas documentation.
Natural (NAT)	Version 8.2 SP7 fully supports Adabas 8.4 databases and expanded features.
Predict (PRD)	Version 8.4 SP1 fully supports Adabas 8.4 databases and expanded features.
EntireX/webMethods EntireX (EXX)	<p>All currently supported versions of EntireX support Adabas 8 databases. Please check the individual release notes for further information.</p> <p>Note: In order to work with the Adabas 8.4 SVC, certain EntireX fixes must be applied, depending on the EntireX version you are using. These are currently: EXX912L006, EXX910L015, EXX990L019 or EXX970L036. The latest product fixes are available under <i>Product Fixes</i> in the Knowledge Center in Software AG's Empower (https://empower.softwareag.com) web site.</p>

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Using COR-based Add-ons

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This document describes using the Adabas COR-based Add-on products with Adabas for zIIP 8.4 SP3. It covers the following topics:

Introduction

You can use the following Adabas COR-based Add-on products in conjunction with Adabas for zIIP 8.4 SP3:

- Adabas System Coordinator (COR) 8.2 SP2 Patch Level 3 and above
- Adabas SAF Security (AAF) 8.2 SP2
- Adabas Fastpath (AFP) 8.2 SP2
- Adabas Transaction Manager (ATM) 8.2 SP2
- Adabas Vista (AVI) 8.2 SP2



Note: With the exception of the Adabas zIIP-related features, these add-on products do not support any new Adabas 8.4 features.

Implementation

Review the following information with regard to the implementation of the COR-based Add-on products with Adabas for zIIP 8.4 SP3.

1. We always recommend that the latest maintenance is applied to each of the COR-based Add-on products in use at your site.

For reference, the specific maintenance for supporting Adabas for zIIP 8.4 SP3 is as follows:

Add-on Product	Version	Fix number
Adabas System Coordinator	8.3 SP1	n/a
	8.2 SP2 Patch Level 3	MI822189, MI822190, MI822191, MI822193
Adabas Fastpath	8.2 SP2	AW822048
Adabas SAF Security	8.2 SP2	AX822008, AX822010, AX822011, AX822012, AX822013, AX822014, AX822015
Adabas Transaction Manager	8.2 SP2	AT822030
Adabas Vista	8.2 SP2	AV822055

2. Make sure the libraries for the relevant Adabas COR-based Add-on products are available to Adabas.



Note: Starting from Adabas 8.4 SP1, it is no longer necessary for a COR_{vers}.LX_{nn} special purpose library to be concatenated above the Adabas library for Adabas nuclei.

3. If you have applied maintenance that modifies the Adabas System Coordinator stubs (COR_{Snn}) then relink your LNKGBLS modules to include the modified stubs. You will also need to relink any Adabas link modules that include a LNKGBLS module.
4. If, after loading the Adabas for zIIP 8.4 SP3 INPL library, there is a requirement to (re)load the Adabas COR-based Add-on INPLs, (for example to apply an INPL update) then these INPL jobs should specify the Check Date option. This option loads the libraries in a date-sensitive manner by checking the dates of your existing INPL library and not allowing older members to replace members of the same name with newer dates. The use of the INPL Check Date option is determined by the following CMSYNIN command input (assuming the Natural input parameters in the job are specified in comma-delimited mode, or IM=D):

B , , , , , , Y

For reference, a sample INPL job CORI061 can be found in the JOBS library of the Adabas System Coordinator.

Required Adabas Maintenance

Fixes may be produced after the final freeze of the Adabas release. Depending upon timing some or all of these fixes may be supplied with the installation kit in an "all zaps" dataset (*Z000). These fixes, and any others that also appear in Empower, should be applied during the Adabas installation process. The following Adabas fixes are currently known to be required when using the Adabas COR-based Add-on products:

- [Fixes Required For Adabas for zIIP 8.4 SP3](#)

Fixes Required For Adabas for zIIP 8.4 SP3

- None

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End of Maintenance

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.

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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

You can find documentation for all Software AG products on the Software AG Documentation website at <http://documentation.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) or you can also use the TECHcommunity website to access the latest documentation.

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. 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

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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