Adabas Review

Release Notes

Version 4.9.1

September 2018

ADABAS & NATURAL

This document applies to Adabas Review Version 4.9.1 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 Adabas Review 4.9 Release Notes

Adabas Review version 4.9, which is used with Adabas version 8.3 SP4 and later releases, adds a number of new features to enhance the product's usability.

Adabas Review monitors the performance of Adabas environments and the applications executing within them. You can use information retrieved about Adabas usage when tuning application programs to achieve maximum performance with minimal resources.

Supported Operating System Platforms	Lists the currently supported operating environments for Adabas Review.
Enhancements	Describes the new and changed features in this version of Adabas Review.
Migration from Previous Versions	Describes the steps you must perform to migrate from prior Adabas Review releases to this one.
Plans for Future Versions	Describes plans for future versions of Adabas Review.
Software AG Product Support and Requirements	Describes the compatibility of Adabas Review with other Adabas products, including requirements (such as zaps) for the other Adabas products that are necessary for some Adabas Review functionality.
Applying Maintenance	Describes information you need to apply maintenance to Adabas Review in VSE and z/OS environments.
End of Maintenance	Describes how you can determine the end-of-support dates for your Software AG products.
Documentation and Other Online Information	Describes the documentation and other online information you can obtain about this release of Adabas Review.

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.

Version Notation Convention

A product version is identified by the first two digits of the version number. Software AG distinguishes between major and minor versions according to the amount of functionality or technology added to the product. All other digits indicate correction levels.

In the product documentation, the notation *vrs*, *vr*, or simply *v* is often used as a placeholder for the current product version, for example, in data set or module names.

Placeholder	Meaning	Definition
v	version	**Major Version** The first digit of the product version number indicates major architecture and functionality implementation or enhancement that adds value to the product.
r	release	**Minor Version** The second digit of the version number indicates functionality addition or enhancement that adds value to the product.
s	system maintenance level	**Correction Level** Correction levels contain error corrections only, without new functionality, including documentation of all modifications and repairs. In case it is necessary to include functional changes into a correction level, an exception handling process ensures that corresponding quality assurance activities are triggered. These functional changes are documented. The main target is to avoid impacts when you install such a correction level. The third number of an Adabas version denotes the system maintenance level. On certain platforms supported by Adabas, additional levels may exist, such as update package, patch level, service pack and hot fix.

2 About this Documentation

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
`Monospace font`	Identifies service names and locations in the format *`folder.subfolder.service`*, APIs, Java classes, methods, properties.
`Italic`	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.

3 Supported Operating System Platforms

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.

4 Enhancements

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This chapter describes the Adabas Review 4.9 enhancements.

Category	Enhancements
Adabas Review 4.9 SP1 Enhancements	*Changed command REGEN ALL and new commands RECAT [ALL] and CHECK*
	New and Changed Fields
	Redefine Fields and Headers in Output Reports with Mode DISPLAY=EDITOR
	Dynamic Invocation of Client Exits REVEXIT1 and REVEXIT2 (z/OS only)
	Scheduling Adabas Review Reports
	Miscellaneous Changes

Changed command REGEN ALL and new commands RECAT [ALL] and CHECK

The command `REGEN ALL` was changed to use the Natural `CATALL` command for cataloging generated display programs. There are now two steps:

1. Generating the display programs and SAVE them
2. Cataloging the generated sources.

It is possible to generate display programs without cataloging them. Reports, which cannot be generated e.g. because of missing definitions of user-defined variable, or existing sources, which cannot be cataloged because of Natural errors, do no longer stop the generation process. Those modules can be listed after the REGEN process.

The new syntax of the `REGEN ALL` command is as follows:

```
REGEN ALL [SAVE] [SCROLL] [REPORT]
```

For more information see *REGEN or RG Command*, in the *Adabas Review Reference Guide*.

The new command `RECAT [ALL] [SCROLL] [REPORT]` catalogs existing display programs, without regenerating them. For more information see *RECAT Command*, in the *Adabas Review Reference Guide*.

The new command `CHECK` returns information whether display programs do not exist and need to be generated, or exist and need to be re-cataloged, e.g. because a GDA timestamp mismatch. For more information see *CHECK Command*, in the *Adabas Review Reference Guide*.

New and Changed Fields

The following table summarizes the changes made to Adabas Review fields in this release. For complete information about fields, refer to *Field Reference*.

Note: The new fields will work with Adabas for Mainframes Version 8.4.2 or above.

Field Name	New or Changed	Description
AB-ALLOCATED-ENTRIES, AB-ALLOCATED-SIZE, AB-MAX-PERCENT, AB-MAXUSED, AB-SIZE, ADABAS-ISN-LOWER-LIMIT, ADABAS-THREAD-NUM, BUFF-EFFICIENCY, BUFF-FLUSH, BUFFER-WAITS, COMMANDS-PER-ACCT, COMPLETE-TID, CQ-ALLOCATED-ENTRIES, CQ-ALLOCATED-SIZE, CQ-MAX-PERCENT, CQ-MAXUSED, CQ-SIZE, CQ-TOTAL-ENTRIES, ELAPSED, FORMAT-OW, FORMAT-TR, HOLDISN, HQ-ALLOCATED-ENTRIES, HQ-MAX-PERCENT, HQ-MAXUSED, HQ-SIZE, HQ-USER-ENTRIES, IO-TO-CMD, LFP-ALLOCATED-ENTRIES, LFP-ALLOCATED-SIZE, LFP-MAX-PERCENT, LFP-MAXIMUM, LFP-MAXUSED, LFP-SIZE, LWP-ALLOCATED-ENTRIES, LWP-ALLOCATED-SIZE, LWP-MAX-PERCENT, LWP-MAXIMUM, LWP-MAXIMUM-ENTRIES, LWP-MAXUSED, LWP-SIZE, MULTICNT, NUMBER-OF-THREADS, ORG-DURATION, SECONDS, THREAD-SWITCHES, THROW-BACKS, TI-ALLOCATED-ENTRIES, TI-ALLOCATED-SIZE, TI-MAX-PERCENT, TI-MAXUSED, TI-SIZE, TS-ALLOCATED-ENTRIES, TS-ALLOCATED-SIZE, TS-MAX-PERCENT, TS-MAXUSED, TS-SIZE, UQ-ALLOCATED-ENTRIES, UQ-ALLOCATED-SIZE, UQ-MAX-PERCENT, UQ-MAXUSED	Changed	Format length enlarged in REVIEW-ADABAS-CLOG to cover the full range of possible values. This has no effect on the output length of the fields.
Category Adabas Buffer Fields (BUF): MB, MBSEGnn, PB, PBSEGnn	New	Refer to the individual field description in *Field Reference*.
Category Adabas Control Block Fields (CB): ERRFLDOF, MBL, OP3, PBL	New	Refer to the individual field description in *Field Reference*.
Category Adabas I/O Fields (I/O): ASSOREAG, ASSOWRIG, CLREADS, CLWRITES, DATAREAG, DATAWRIG, PLOGBLKS, PLOGDIFF, PLOGIOS, PLREADS, PLWRITES, TOTREADS, TOTWRITS,	New	Refer to the individual field description in *Field Reference*.

Field Name	New or Changed	Description
WK1PBLKS, WK1PDIFF, WK1PIOS, WORKREAG, WORKWRIG		
Category Adabas Nucleus Fields (NUC): AUTORSRT, BUFFLUSG, FLSHBLKS, FLSHIOS, FLSHPH, FLSHRTNE, FLSHRTNI, FLSHRTNL, FORMATOG, HLCMDS, INTCMDS, LGREADS, LOCLCMDS, MOCAJOB, MOCASECU, MOCAUSER, MOIOJOB, MOIOSECU, MOIOUSER, MOSTCALL, MOSTIOS, MOSTTHTI, MOTTJOB, MOTTSECU, MOTTUSER, NUCCPU, NUCDURA, NUCSDATE, NUCSTIME, NUCWAIT, OPERCMDS, REMCMDS, REPINCTR, REPPNDTR, REPTOTTR, SESSIONS, THBKISN, THBKSPAC	New	Refer to the individual field description in *Field Reference*.
Category Adabas Nucleus statistical Buffer Fields (NUC): DQALLOC, DQDATE, DQENT, DQPCT, DQSIZE, DQTIME, DQUSED, HQALLOC, LFPDATE, LFPTIME, LWPDATE, LWPTIME, PIALLOC, PIDATE, PIENT, PIPCT, PISIZE, PITIME, PIUSED, RDALLOC, RDDATE, RDENT, RDPCT, RDSIZE, RDTIME, RDUSED, RPALLOC, RPDATE, RPENT, RPPCT, RPSIZE, RPTIME, RPUSED, SCALLOC, SCDATE, SCENT, SCPCT, SCSIZE, SCTIME, SCUSED, UFALLOC, UFDATE, UFENT, UFPCT, UFSIZE, UFTIME, UFUSED, W1ALLOC, W1BALLOC, W1BDATE, W1BENT, W1BPCT, W1BSIZE, W1BTIME, W1BUSED, W1DATE, W1ENT, W1PCT, W1SIZE, W1TIME, W1USED, W2ALLOC, W2DATE, W2ENT, W2PCT, W2SIZE, W2TIME, W2USED, W3ALLOC, W3DATE, W3ENT, W3PCT, W3SIZE, W3TIME, W3USED, WIALLOC, WIDATE, WIENT, WIPCT, WISIZE, WITIME, WIUSED, XIDALLOC XIDDATE, XIDENT, XIDPCT, XIDSIZE, XIDTIME, XIDUSED	New	Refer to the individual field description in *Field Reference*.
Category Operating System Fields (OS): ZIIP	New	Refer to the individual field description in *Field Reference*.
Category Transaction Processing Monitor Fields (TP): RDBLKUSR	New	Refer to the individual field description in *Field Reference*.

Redefine Fields and Headers in Output Reports with Mode DISPLAY=EDITOR

In mode DISPLAY=EDITOR it is now possible for the user to define the output format of fields in a report, e.g to reduce the output length for a clearly arranged output according the user's needs.

For this purpose the Natural Text member REDEFS in library SYSREVDB, if existing, will be read to obtain user defined formats.

REDEFS may be generated with the latest field definitions using the stand-alone Natural program GENREDEF in library SYSREVDB. To execute GENREDEF, stop SYSREVDB if running, so that you are at the Natural NEXT prompt in library SYSREVDB. Enter GENREDEF in the NEXT or Command line and press Enter. It will generate the Natural Text member REDEF*vrs* (currently REDEV491) in library SYSREVDB. To activate the just generated REDEF*vrs* file, rename or copy it to REDEFS. If a Natural Text member with the name REDEFS already exits and you what to keep it, make a backup copy by renaming it or copy it to another library.

Redefinitions may be specified in the section of this file, starting with <FIELDS-REDEF-START> and ending with <FIELD-REDEF-END>. This section will be read when a display program will be (re-)generated. Valid field names with valid format definitions and headers within this section will overwrite the default values. See the documentation at the top of text member REDEF*<vers>* for the format of such an entry. Also, the REDEF*<vers>* file contains the latest SYSREVDB field definitions as comments.

The format of a variable (A, B, N) may not be changed. Keep in mind that the minimum column width is the size of the header. Some output columns may be reduced in width just by a shortened header.

User defined fields may not be re-defined here.

Dynamic Invocation of Client Exits REVEXIT1 and REVEXIT2 (z/OS only)

In conjunction with the Adabas System Coordinator, dynamic invocation of the Adabas Review client exits REVEXIT1 and REVEXIT2 is possible.

Using the LGBLSET parameter options REVIEW=COR and RVCLNT=COR, the decision to invoke REVEXIT1 and REVEXIT2 is deferred to the Adabas System Coordinator client runtime controls "Review" and "Client Monitor" respectively.

Deferring the activation of client reporting to the control of the Adabas System Coordinator enables automatic activation to occur at job start-up and also provides the following additional benefits:

- For batch, activation can be controlled at the Stepname level
- For CICS, activation can be controlled at the Transaction name or Login ID level.

- Natural and 3GL APIs are available to enable activation at the individual client level.

Refer to the Adabas documentation for more information on the LGBLSET parameter options and the Adabas System Coordinator documentation for more information on the availability of the client runtime controls.

Scheduling Adabas Review Reports

The following new parameters are available for the REPORT statement to enable the scheduling of Adabas Review reports:

- START-SCHEDULE
- SCHED-STRTDATE
- SCHED-STRTTIME
- SCHED-ENDDATE
- SCHED-ENDTIME
- SCHED-DURATION
- SCHED-INTERVAL

For details, refer to the individual parameter description in *REPORT Statement* in section *Running Reports as Batch Jobs*, in the *Adabas Review User Guide*.

The output of the LS command is enhanced for scheduled reports. There is an additional function LC for scheduled reports not currently running.

For performing Adabas Review Online Functions from Natural Programs, there are the new commands EZSCHED and SCHEDULE to support scheduling.

For using Adabas Review in batch Natural there is the new batch Natural program SCHEDULE to support scheduling. The programs LODREP and ULDREP now require a work file 1 with the record length 4096 (enlarged from 2048) to handle the scheduling data for report definitions.

Specialty reports and Client Reports cannot be scheduled.

Miscellaneous Changes

Alpha field length for fields in mode DISPLAY=BASIC is now limited to 64 byte. This is to avoid problems generating display programs, where the assumed page width is 72 bytes.

5 Migration from Previous Versions

- Migration Steps 18

This chapter describes migration tasks you need to perform for this release of Adabas Review. It covers the following topics:

Migration Steps

To migrate to Adabas Review 4.9 SP1 from prior versions, consider and perform the following migration steps.

Adabas Review under Natural

1 Verify that any Adabas Review display programs or objects you have written or modified have unique names that do not begin with RD*, RX*, SR*, SX*, CR*, CX*, CS*, PU-* or BUFFERPOOL (these prefixes are reserved for use by Adabas Review programs). This will ensure that this migration process does not overwrite them.

2 INPL the Adabas Review programs and DDMs from the INPL data set distributed with this release into the SYSREVDB library as described in *Install Adabas Review under Natural*, in your Adabas Review installation instructions.

3 If an existing Adabas Review repository file is used with a version of SYSREVDB where the GDA has been re-cataloged, the function RECAT ALL needs to be executed. This function will be automatically triggered at start of SYSREVDB, when user exit P-UEXIT1 will be re-cataloged because of a GDA timestamp conflict. For more information about RECAT ALL, read *Recataloging All Display Programs*, in the *Adabas Review User Guide*.

Notes:

1. Your user exits and RVCALL* program modifications will be kept and re-cataloged.
2. When using SYSREVDB of Adabas Review Version 4.9 SP1 with an older Review Processor up to Version 4.8 SP2, scheduling functions are not supported (e.g. when using the LC or LR functions) and the Review message `REV00093 - Syntax error(s) in report definition or field not supported` comes up, when a report will be started with fields introduced in Adabas Review 4.9 SP1 but unknown to a Version 4.8 SP2 Review Processor.

Note:

Adabas Review Repository

1 If you are migrating from Adabas Review 4.5 SP2, run the EXPAND5 job found in the Adabas Review source library to upgrade your version 4.5 SP2 repository to a version 4.6 SP1 repository.

2 If you are migrating from Adabas Review 4.6 SP1, run the EXPAND6 job found in the Adabas Review source library to upgrade your version 4.6 SP1 repository to a version 4.6 SP2 repository.

3 If you are migrating from Adabas Review 4.6 SP2, run the EXPAND7 job found in the Adabas Review source library to upgrade your version 4.6 SP2 repository to a version 4.7 SP1 repository.

4 If you are migrating from Adabas Review 4.7 SP1, run the EXPAND8 job found in the Adabas Review source library to upgrade your version 4.7 SP1 repository to a version 4.7 SP2 repository.

5 If you are migrating from Adabas Review 4.7 SP2, run the EXPAND9 job found in the Adabas Review source library to upgrade your version 4.7 SP2 repository to a version 4.7 SP3 repository.

6 If you are migrating from Adabas Review 4.7 SP3, run the EXPAND10 job found in the Adabas Review source library to upgrade your version 4.7 SP3 repository to a version 4.8 SP1 repository.

7 If you are migrating from Adabas Review 4.8 SP1, run the EXPAND11 job found in the Adabas Review source library to upgrade your version 4.8 SP1 repository to a version 4.8 SP2 repository.

Notes:

1. Make sure to use the updated version of the EXPAND11 job delivered as fix REV482S001. It uses the fieldname PP for the PE-group.
2. The zaps RD472100, RD473061 and RD481011 add the same fields as in the EXPAND11 job. When you have already applied one of these zaps to your environment, you do not need to run the EXPAND11 job.

8 If you are migrating from Adabas Review 4.8 SP2, run the EXPAND12 job found in the Adabas Review source library to upgrade your version 4.8 SP2 repository to a version 4.9 SP1 repository.

If you wanted to migrate from Adabas Review 4.5 SP2 to Adabas Review 4.9 SP1, you would need to run the jobs EXPAND5, EXPAND6, EXPAND7, EXPAND8, EXPAND9, EXPAND10, EXPAND11 and EXPAND12 consecutively

Once the EXPAND12 job has completed, be sure you have performed any maintenance for 4.9 SP1.

Adabas Review Load libary

- The parameter list for the Command, Summary or RAW logging exit (REVUXLOG) will now be allocated above the line (AMODE=31). Make sure your existing REVUXLOG exit does support this. An example can be found in the source library.

6 Plans for Future Versions

The following plans are in place for future versions of Adabas Review:

- Support for the RVUAUT2 data set will be removed. Only support for the use of the RVUAUT1 data set for autostarted reports will be provided.
- Support for the BUFFER-SEGMENTS parameter will be removed.
- The Adabas 8 LGBLSET macro parameter REVREL= is now redundant and will be dropped in a future version. Please remove any use of this parameter in order to avoid future assembly errors. This change is not applicable to BS2000.

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For more information about Adabas installation and prerequisites, read the various Adabas installation documents and the Adabas Operations Manual documentation.

Adabas and Adabas Review Version Compatibility

This version of Adabas Review is compatible with all supported versions of Adabas.

Note: The new fields introduced with this version will work with Adabas for Mainframes Version 8.4.2 or above.

Adabas Review Online (SYSREVDB) and Adabas Review Processor Compatibility

Adabas Review Online (SYSREVDB) supports back-level versions of the Adabas Review Processor. However, the same version of SYSREVDB and the Adabas Review Processor is a prerequisite to use any new features provided in a version.

Adabas Review Zap Requirements

All released Adabas Review zaps should be applied to the executables before completing installation.

The following table lists the Adabas zaps you must have applied to use the new features of this version of Adabas Review with different versions of Adabas:

Adabas Release	Required Adabas Zaps
8.2 SP6	AN826111, AN826081
8.3 SP1	AN831057, AN831024, AN831065
8.3 SP2	AN832005, AN832003
8.3 SP3	AN833004

Natural Version Requirements

This version of Adabas Review requires Natural Version 8.2 SP5 or above.

SYSREVDB calls the AOS module AOSASM for some functions, e.g. cluster environments. AOSASM is delivered with Adabas. Make sure that the version of AOSASM used by Natural matches the used Adabas version.

For the new REGEN ALL and RECAT ALL function, using the CATALL command, Natural Version 8.2.6 with update NA826I6 or Natural Version 8.2.7 are recommended. A fix for CATALL is included, which enable the REGEN/RECAT ALL functions to return to SYSREVDB in case of a CATALL error.

The CH (compress history) function requires Natural zap NA97005. It is recommended to apply all available Natural zaps.

Adabas Cluster and Parallel Services Requirements

This version of Adabas Review is compatible with all supported versions of Adabas Cluster Services and Adabas Parallel Services.

TP Monitor Support

This version of Adabas Review supports the following TP monitors:

- Com-plete
- CICS
- IMS/DC
- TSO

8 Applying Maintenance

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Be sure that you apply all supplied Adabas Review maintenance and concatenate Adabas Review patch-level libraries (L00n), as they are delivered to you. This will ensure that your Adabas Review code remains up-to-date, supporting all Adabas Review features as they are enhanced and maintained.

In general, corrections for Adabas Review can be applied and made active one component at a time.

- Adabas Review zaps should be applied to the Review load library.
- Adabas Server specifically for Review should be applied to the Adabas load library.
- Natural INPLs (cumulative fixes or hotfixes) for Adabas Review under Natural .

The latest corrections (zaps and Natural INPL) for this product are available in the Knowledge Center of the Software AG Empower web site: ***https://empower.softwareag.com***.

Finally, the distributed source library contains member ZAPOPT , which lists zaps that may be applied for the activation or deactivation of various features of Adabas Review. A ZAPOPT member will be included with each SP level distribution.

Important: Software AG recommends that you keep its software products as current as possible and apply all known corrections. Software AG strongly recommends that you read in the solution all installation instructions thoroughly, comply with all documented prerequisites, and keep track of all corrections that are applied. Applying only a subset of unrelated corrections can cause errors difficult to diagnose.

Applying Zaps in VSE Environments

In VSE environments, maintenance fixes are distributed in MSHP format. To apply these maintenance fixes, Adabas Review must be defined to MSHP as a product/component using the MSHP ARCHIVE process.

Modify and run the sample job stream ARCHIVE.X in the Adabas Review sublibrary to define Adabas Review to MSHP. Make sure you have specified the Adabas Review *and the Adabas library* in your MSHP job which applies the fixes for Adabas Review. For example:

```
// LIBDEF OBJ,SEARCH=(SMALIB.REVvrs,SMALIB.ADAvrs),TEMP
```

Applying Zaps in z/OS Environments

Use the z/OS AMASPZAP utility to apply zaps in the respective operating system; this method verifies (VER) and replaces (REP) data. The following sample JCL executes AMASPZAP:

```
//ADAZAP JOB
//STEP1 EXEC PGM=AMASPZAP,PARM=IGNIDRFULL
//SYSPRINT DD SYSOUT=X
//SYSLIB DD DSN=REVvrs.LOAD,DISP=SHR
//SYSIN DD *
(zap control statements)
/*
//
```

—where the following are examples of zap control statements:

```
NAME membername csectname
VER displacement data
REP displacement data
IDRDATA (up to eight bytes of user data)
* (comment)
```

Note: In VER and REP statements, spaces must be used to separate command, displacement, and data. Commas are acceptable data separators; however, commas with spaces or spaces alone are not, and may cause errors.

9 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.

10 Documentation and Other Online Information

- Software AG Documentation Website 34
- Software AG TECHcommunity 34
- Software AG Empower Product Support Website 34

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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