Adabas Review

Release Notes

Version 4.8.2

September 2018

ADABAS & NATURAL

This document applies to Adabas Review Version 4.8.2 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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Table of Contents

1 Adabas Review 4.8 Release Notes

Adabas Review version 4.8, which is used with Adabas version 8.3 SP3 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

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.

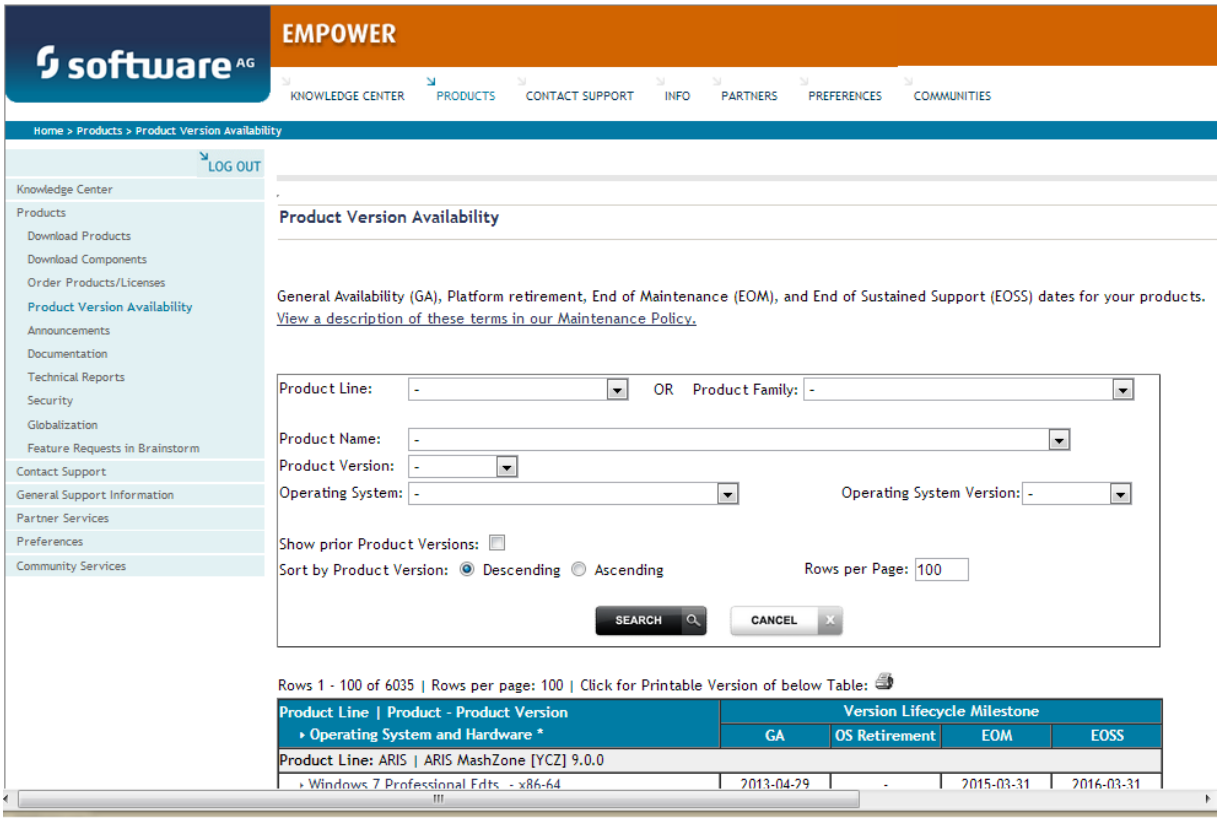
3 Supported Operating System Platforms

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** 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 this 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

This chapter describes the Adabas Review 4.8 enhancements.

Category	Enhancements
Adabas Review 4.8 SP2 Enhancements	*New Dedicated PF-Keys for List Reports and List Started Screens*
	NUCID and DBID Directives can be Executed from Open Fields on Most Screens
	CHANGE DBID command allows for mass update for DBID to Monitor
	Display Programs using the Software AG Editor
	New Raw Log Option
Adabas Review 4.8 SP1 Enhancements	*New and Changed Fields*
	Natural Program SETCM for Client Reporting in Batch
	Maintaining Display Programs
	Performance Enhancements
	Change in DBID=11111 Behavior
	Processing Intervals of History Reports
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	Increase of Buffer Size for ADALINK User Defined Fields
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	Installation - DDM Module Names without Version Number

New Dedicated PF-Keys for List Reports and List Started Screens

Adabas Review has two permanently dedicated PF-Keys for convenient access to the List Reports (LR) and List Started (LS) screens. From almost anywhere in the product, pressing PF13 will immediately place you at the **List Reports** screen and PF14 will immediately place you at the **List Started** screen. All main screens and sub screens have this functionality. Some small pop-up dialogs do not have the functionality.

To access PF13 and PF14 from a standard PC keyboard, press SHIFT+PF1 or SHIFT+PF2.

NUCID and DBID Directives can be Executed from Open Fields on Most Screens

In previous versions of Adabas Review, the current DBID or HUBID was displayed in the upper right-hand corner of most screens. Also, when running in a cluster environment in local mode, the current NUCID was displayed in the upper left-hand corner.

These fields can now be updated directly. This new method of entering the NUCID and/or the DBID is an addition to the current method using the command line directives `DBID=` and `NUCID=` or `NUCIDS`.

CHANGE DBID command allows for mass update for DBID to Monitor

You can use the CHANGE DBID command to accomplish a mass update of target DBIDs.

Display Programs using the Software AG Editor

In addition to the system, user and client reports (starting with SR-*, RD-* and CR-*), reports may be generated using the Software AG Editor. These reports start with either SX-*, RX-* or CX-*. To generate (download, print, edit) such reports, the new `DISPLAY` parameter in CONFIGDB must be set to `EDITOR`.

`DISPLAY=BASIC` enables the handling with traditional display programs. The setting of `DISPLAY` may also be set online with the `DISPLAY=BASIC/EDITOR` command. Thus the value of `DISPLAY` will be temporarily overwritten. To view reports using the Software AG Editor the `VIEWX` or `VX` command must be used instead of the `VIEW` or `VW` commands for the traditional display programs.

Note: The setting of `DISPLAY` does not affect the live or history recording format of reports.

New Raw Log Option

It is now possible to specify whether binary field data should be written as binary data or in character format to the output file. For more information see *Raw Log Options* , in the *Adabas Review User Guide*.

New and Changed Fields

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

Field Name	New or Changed	Release	Description
L3DE	Changed	4.8 SP1	The L3DE field now also shows the descriptor obtained from the Additions 1 field of an ACB or ACBX L6 command call.
CCALLS	New	4.8 SP1	The counter of successful client calls.
CCALLU	New	4.8 SP1	The counter of unsuccessful client calls.
FBFIELDS SBFIELDS	Changed	4.8 SP1	In earlier versions, these fields were not allowed for detailed reports, but no check was made to see whether they were used. Now using these fields in a batch report or in an Autostarted report will result in the error message REV20008; defining a new report with one of these fields in SYSREVDB will result in the error message REV00003.
FBSEG*nn* IBSEG*nn* RBSEG*nn* SBSEG*nn* VBSEG*nn*	Changed	4.8 SP1	In earlier versions, these fields were documented as not being allowed for detailed reports. Starting with Adabas ReviewVersion 4.8 SP1, these fields can be used in detailed reports.

Natural Program SETCM for Client Reporting in Batch

You can use the Natural Program SETCM to manage client reporting in batch mode. Please refer to *Natural Program SETCM* in the section *Managing Client Reporting in Batch*, in the *Adabas Review Administration Guide*.

Maintaining Display Programs

When using user-defined display programs in SYSREVDB it was not possible to `SAVE` or `REGENERATE` such a program. This was to avoid the overwrite of user changes.

Now a pop-up window will appear when such a report is about to be saved and the user can decide whether to overwrite the existing program or to create a new display program.

A new function `RU` has been implemented. See the section *Regenerating a User-Defined Display Program* , in the *Adabas Review User Guide* for details.

Performance Enhancements

Performance enhancements in the following areas are introduced with Adabas Review 4.8 SP1:

- Overall performance increase in a standard environment;
- Increased performance for RULE processing with wildcards;
- Increased performance in the handling of Review history data. This applies when writing history data as well when issuing the `LH` (list history) command from within SYSREVDB.
- The performance overhead when running with Review in local mode, but no reports are actively started is dramatically minimized. The Adabas zaps AN826109 or AN832037 or AN833005 including their post- and prerequisites need to be applied.

Change in DBID=11111 Behavior

The behavior of DBID=11111 specifications will be different than in previous releases. This specification will now no longer behave in a manner identical to specifying DBID=ALL. Instead, this DBID will be handled as all other DBIDs. For complete information, read *Specifying the Report DBID*, in the *Adabas Review User Guide*.

Processing Intervals of History Reports

The data for history reports is written in intervals to the Adabas Review repository file. For all functions now only whole intervals will be processed. If the date/time specification lies in the middle of an interval, this will not be processed. If the date/time does include several intervals then these will be processed. It is also possible to process all data for one report.

Using the function `EX` as described in *Expanding the List of History Reports*, the list of single intervals will be displayed. Either single instances can be processed or all data for one report.

The display of the expanded list has changed as well the input maps when viewing or compressing history reports from the *List History Reports* function. These changes along with documentation changes should make the user aware that always whole intervals are processed and not only parts of an interval.

The output described in *Processing History Data in Batch Natural* (`HISTORY` program) has also been changed to display not only the date but the time as well.

New Parameter for REVAPI START Function

A new parameter RVC-CLIENT has been added to the START function, see example program RVCALL01 in *Performing Adabas Review Online Functions from Natural Programs* , in the *Adabas Review Administration Guide*.

User ID in Messages is *INIT-USER Value

The user ID displayed in messages REV20257, REV20236 and in the SYSREVDB function "display active report information" is no longer the Review user ID from the Review User Profile, it is now the `*INIT-USER` value from Natural.

Consistent Usage of LINESIZE

The LINESIZE for a report definition is now 255 bytes, for online and batch defined reports. For further information read about the LINE parameter in *General Report Options* and LINESIZE in *REPORT Statement*, in the *Adabas Review User Guide*.

Value Overflow of SUM Fields Viewing Reports Online

The numeric field calculation SUM does calculate and display a total of a field´s value. In case this total value exceeds the size of the numeric field display, the total value will be cut. For further information read *Specifying Numeric Options for Summary Reports* and *Viewing Reports with numeric calculation SUM* , in the *Adabas Review User Guide*.

New Report Status in Online LS Function

Reports which are in the end processing or the interval end processing are now displayed in the LS screen with one of the new status indicators "R" or "P". For further information refer to the table under *Listing Started Reports*, in the *Adabas Review User Guide*.

Changed Logic for Errors Happening During Writing of History Data

When an Adabas response code is given while history data is written, the changed message

```
FOLLOWING ERROR APPLIES TO REPORT: report name
```

with the respective *report name* instead of the *report number* will be printed and then the changed message REV20045 will be shown.

START Function with New Parameters

The START Natural program which can be executed in batch or as direct command in online SYSREVDB has new parameter setting, the old setting is still supported. For details, see *Starting a Report in Batch Natural*, in the *Adabas Review User Guide*.

Raw Log Files for Batch and Autostarted Reports

Raw log file support is now also available for autostarted or batch reports. For details, see the description of the *RAW Statement* under *Using Batch Report Statements*, in the *Adabas Review User Guide*.

Definition of User Field Contents Based on a Condition

The contents of a user field can now be defined by the user dependent on a given condition. For more information, see *Defining Adabas Review User Fields*, in the *Adabas Review Administration Guide*.

Increase of Buffer Size for ADALINK User Defined Fields

Using REVUEX1 the user can provide user-specific data to be passed to Adabas Review. The size of the available buffer has been increased from 32 to 100 bytes. For more information, see *REVUEX1*, in the *Adabas Review Reference Guide*.

Changed Natural Cumulative Fix Names

The internal naming convention for SYSREVDB Natural fixes has been changed from IS00x to IX*vrsin* where *i* is value I for fix 1 to 9, J for fix 10 to 19 and so on. The hotfix naming convention remains as before. For more information, see *Accessing Technical System Information*, in the *Adabas Review Concepts Manual*.

Installation under Natural

The Adabas Review DDMs, that you have to define to Natural Security during the installation, no longer contain the version number as part of their names. They were renamed as follows:

- REVIEW-ADABAS-V*vrs*-CLOG is replaced by REVIEW-ADABAS-CLOG.
- REVIEW-ADABAS-V*vrs*s-SYSTEM is replaced by REVIEW-ADABAS-SYSTEM.

The old Adabas Review Version 4.7 SP2 DDMs are delivered for downward compatibility only.

Refer to the installation documentation corresponding to your platform for further details.

5 Migration from Previous Versions

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 4.8 SP2 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*, SR*, 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.

Note: Your user exits and RVCALL* program modifications are automatically migrated for you.

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 new version of SYSREVDB, the function REGEN ALL needs to be executed. For more information about REGEN ALL, read *Regenerating All Display Programs*, in the *Adabas Review User Guide*.

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.

Once the EXPAND11 job has completed, be sure you have performed any maintenance for 4.8 SP2.

If you wanted to migrate from Adabas Review 4.5 SP2 to Adabas Review 4.8 SP2, you would need to run the jobs EXPAND5, EXPAND6, EXPAND7, EXPAND8, EXPAND9, EXPAND10 and EXPAND11 consecutively

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.

7 Software AG Product Support and Requirements

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.

Adabas Review Online (SYSREVDB) and Adabas Review Processor Compatibility

The following table lists the compatibility between the Natural administration application SYSREVDB and the Review processor which is either the Hub server or, in local mode, the Adabas Review processor running under the Adabas server. If the fixes are not applied, major problems with AUTOSTARTED reports might occur.

SYSREVDB	Review processor (Hub or local)	Status
4.7 SP2 or lower	4.8 SP1	Not compatible.
4.7 SP3	4.8 SP1	Compatible with SYSREVDB hotfix REV473X37.
4.8 SP1	4.7 SP3	Compatible with zap RD473059.
4.8 SP1	4.7 SP2 or lower	Not compatible.

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.

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

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
//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

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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