software AG

Adabas Review

Installation and Operations for z/VM

Version 4.3.2

September 2009

Adabas Review

This document applies to Adabas Review Version 4.3.2 and to all subsequent releases.

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

Table of Contents

1 Installation and Operations for z/VM

Adabas Review is a set of tools for monitoring the performance of Adabas environments and the applications executing within them. Information retrieved about Adabas usage helps you tune application programs to achieve maximum performance with minimal resources.

This part of the Adabas Review documentation provides information for installing and maintaining Adabas Review under z/VM in local mode in the Adabas address space.

The Review installation documentation for z/VM is organized as follows:

Installation	Provides installation procedures for Adabas Review 4.3.2 in local mode under the z/VM operating system environment.
Starting Adabas Review	Describes the procedures for setting up and using Adabas Review after the installation has been completed.
Operation	Describes operational procedures and processes for Adabas Review after it has been installed and initialized.

2 Installation

This section of the documentation provides installation procedures for Adabas Review 4.3.2 in local mode under the z/VM operating system environment.

If you are also installing Review Data Communication or Review Natural Monitor, refer to the installation documentation for that system. Note that with version 4.3.2, the Adabas Review menu system has been completely disconnected from these products. The User Profile system that was formerly common to all of these products is now independent for each. Adabas Review profile data is now encrypted for enhanced security.

This document covers the following topics:

- Prerequisites
- The Installation Tape
- Install Adabas Review under Natural
- Install the Adabas Review Repository
- Install Adabas Review under Adabas
- Install Adabas Review in the Natural Machine
- Optional Installation Procedures

Prerequisites

Adabas Review 4.3.2 under z/VM (local mode only) requires

- Adabas version 7.4.2 or above; it does not support Adabas version 5 and 6 databases.

- Natural version 2.3.4 or above.

> **Note:** There are specific version requirements for Review 4.3.2 in both local and hub mode. See section *Review 4.3 Version Compatibility* in the *Review 4.3.2 Release Notes* for a detailed matrix of these version requirements.

The Installation Tape

Tape Contents

The installation tape is a standard label cartridge that is valid for the z/VM operating system only. Refer to the *Report of Tape Creation* for the correct volume serial number, density, media type, datasets, and dataset sequence numbers for the SM level being installed.

The following sections describe the contents of the Adabas Review installation tape and provides the space requirements for each dataset.

Installation Tape Description

The Adabas Review installation tape is a 3480 cartridge, standard label tape with volume serial number REV43*s*, where *s* is the current system maintenance level. The tape contains the following datasets:

■ CMSLIB product distribution files
  Created using the CMS TAPE DUMP command.

■ INPL dataset
  RECFORM=VB,RECSIZE=4624,BLKSIZE=4628

■ LAST.LABEL.CMS
  RECFORM=FB,RECSIZE=80,BLKSIZE=80
  The last dataset on the tape.

Space Requirements

Software AG recommends that Adabas Review be installed on a separate minidisk that can be accessed by the DBA virtual machine. A 5-cylinder minidisk is required if you are using a 3380 device type.

The programs and buffers required by Adabas Review total approximately 500 kilobytes. You may need to increase the size of your Adabas z/VM machine accordingly.

Files for Adabas Review

z/VM files for Adabas Review are as follows:

File Name	File Type	Used to ...
REVINPL	EXEC	INPL the Adabas Review programs and DDMs from the INPL dataset to the Natural system files.
REVLINK	EXEC	regenerate an ADALNK module with Adabas Review routines.
REVDBFIL	LODLIB	load the Adabas Review repository.
REVHIST	EXEC	populate the Adabas Review repository with history data.
REVAUTO	EXEC	refresh the Adabas Review autostarted report parameter files.
REV43	FILEDEFS	list file definitions to be added to the Adabas startup EXEC.
REV43	LODDATA	input to ADALOD; the Adabas Review repository file in ADAULD format.
REV43	REVAUT1	contain Adabas Review parameters.
REV43	REVAUT2	contain Adabas Review parameters.
REV43	RVUEXI	contain Adabas Review parameters.
REV43	RVUFLD	contain user-defined field parameters.

Copying Contents of the Tape to Disk

The following section provides instructions for copying the contents of the installation tape to disk. Examples for accomplishing the transfer are also included.

Note that this installation procedure assumes that Adabas Review is installed on a separate minidisk that can be accessed by the DBA virtual machine.

1. Log on to the DBA virtual machine and access as READ/WRITE the minidisk that will contain the Adabas Review 4.3.2 installation files.

2. Attach a tape drive to the DBA virtual machine and mount the Adabas Review installation tape on that tape drive

   Keep the tape drive attached after completing this step because it will be needed in step 1 of the section *Install Adabas Review under Natural*.

3. Issue the following z/VM commands:

```
TAPE  REW    (cuu
TAPE FSF n
TAPE LOAD * * fm (ccu
```

   where

cuu	is the virtual device address for the tape drive
n	is from the tape creation report
fm	is the filemode of the Adabas Review minidisk

Install Adabas Review under Natural

▶ **Step 1: INPL Adabas Review**

■ INPL the Adabas Review programs and DDMs from the INPL dataset to your Natural system files.

You may use any of your site-dependent Natural INPL EXEC. A sample EXEC, REVINPL, is provided in the Adabas Review source library.

To INPL the Adabas Review Natural programs and DDMs, invoke the REVINPL EXEC by entering the following:

```
REVINPL
```

You will be prompted for the virtual device address of the tape drive, the Adabas DBID, the Natural system file number, and the name of the Natural module to execute. This EXEC will position the tape properly and load the Adabas Review programs and DDMs.

▶ **Step 2: Create a Natural profile using the SYSPARM facility**

a   Include the following parameter settings in the Natural version 2.3 profile:

Parameter	Requirement
LS=250	minimum
PS=80	minimum
MADIO=5000	minimum
MAXCL=0	minimum
ESIZE=40	minimum
ADAPRM=ON	required. ADAPRM=ON must be specified in order to use Adabas Review to report on Natural information.
NTWORK(7),AM=PC	required for PC downloads. NTWORK is a Natural macro used to define the work file(s) to be used; 'AM' is the access method. For more information, see the Natural documentation.

b   Add a Natural NTFILE definition for the physical database ID and file number of the Adabas Review repository as follows:

```
NTFILE  ID=241,DBID=dbid,FNR=fnr
```

Replace *dbid* and *fnr* with the database ID and the file number, respectively, of the Adabas Review repository.

> **Note:** The Adabas Review repository may not reside on a database with a database ID (DBID) of 255. If the database ID is 255, Adabas Review cannot be accessed in local mode.

c   Reassemble the NATPARM module; run the NATBLDM EXEC to regenerate the NATURAL nucleus.

> **Note:** Information about the NATBLDM EXEC can be found in the Natural documentation.

Add a Natural NTFILE definition for the physical database ID and file number of the Adabas Review repository as follows:

```
NTFILE  ID=241,DBID=dbid,FNR=fnr
```

Replace *dbid* and *fnr* with the database ID and the file number, respectively, of the Adabas Review repository.

> **Note:** The Adabas Review repository may not reside on a database with a database ID (DBID) of 255. If the database ID is 255, Adabas Review cannot be accessed in local mode.

Reassemble the NATPARM module; run the NATBLDM EXEC to regenerate the NATURAL nucleus.

> **Note:** Information about the NATBLDM EXEC can be found in the Natural documentation.

▶ **Step 3: Define Adabas Review to Natural Security**

If Natural Security is installed:

a   Define the SYSREVDB library for the Adabas Review system.

> **Note:** If the Adabas Review application SYSREVDB is made private (i.e., the parameter PEOPLE=Y is specified), each user of Adabas Review must be linked to the SYSREVDB application.

b   Define the following Adabas Review DDMs to Natural Security as public DDMs:

```
REVIEW-ADABAS-V431-CLOG
REVIEW-FNAT
REVIEW-ADABAS-V431-SYSTEM
```

Define the following Adabas Review DDMs to Natural Security as public DDMs:

```
REVIEW-ADABAS-V431-CLOG
REVIEW-FNAT
REVIEW-ADABAS-V431-SYSTEM
```

Install the Adabas Review Repository

The Adabas Review repository is a system file used for storing descriptions of interactive reports, target definitions, and for saving historical data accumulated by Adabas Review reports.

Any Adabas file may be used to contain the Adabas Review repository. The corresponding file number should also be reflected in the NATPARMs used to invoke Adabas Review.

> **Notes:**

1. The Adabas Review repository may not reside on a database with a database ID (DBID) of 255. If the database ID is 255, Adabas Review cannot be accessed in local or hub mode. However, a database with a DBID of 255 can send data to a hub.

2. Before using an existing Adabas Review version 4.1 repository as a version 4.3 repository, you must run the EXPAND EXEC, which adds new fields and increases the length of some fields.

▶ **Step 1: Modify the file used to load the Adabas Review repository**

■ Edit the file REVDBFIL LODLIB and make any necessary changes to the ADALOD statements. You must change the LOAD FILE=*fnr* statement to reflect the number of the file that will contain the Adabas Review file.

> **Note:** The ADALOD EXEC requires that REVDBFIL LODLIB and REVDBFIL LODDATA have a file mode of "A". If necessary, copy REVDBFIL LODLIB and REVDBFIL LODDATA to the A disk of the CMS machine from which ADALOD EXEC will be run.

▶ **Step 2: Load the Adabas Review repository file**

a On the CMS command line, enter the following command depending on whether ADALOD is run in single-user mode or multiuser mode:

■ Single-user mode

```
ADALOD REVDBFIL dbid
```

■ Multiuser mode

```
ADALOD REVDBFIL dbid MULTI
```

where *dbid* is the ID of the database that will contain the Adabas Review repository.

> **Note:** The Adabas Review repository may not reside on a database with a database ID (DBID) of 255. If the database ID is 255, Adabas Review cannot be accessed in local or hub mode. However, a database with a DBID of 255 can send data to a hub.

b Examine the output to ensure that the file was loaded.

Examine the output to ensure that the file was loaded.

Install Adabas Review under Adabas

▶ **Step 1: Modify the Adabas initialization parameters**

■ Modify your existing Adabas ADARUN parameters to include the following:

```
ADARUN PROGRAM=ADANUC
ADARUN REVIEW=LOCAL
```

▶ **Step 2: Modify the Adabas CMS start-up EXEC**

a Locate the following statement in your Adabas start-up EXEC:

```
address  command   'COPY  RDB '  ||
dbid  'CONTROL  A  ADANUC  DDCARD A  (APPEND)'
```

Insert the following statement immediately after the located statement:

```
address  command  'COPY  RAOSLOCL  CONTROL  *   ADANUC  DDCARD A  (APPEND)'
```

b Add the following file definitions to your Adabas start-up EXEC:

```
'FILEDEF RVUPRT00 DISK REV43 REVPRT00 A (LRECL 133'
'FILEDEF RVUPRT01 DISK REV43 REVPRT01 A (LRECL 133'
'FILEDEF RVUPRT02 DISK REV43 REVPRT02 A (LRECL 133'
'FILEDEF RVUPRT03 DISK REV43 REVPRT03 A (LRECL 133'
'FILEDEF RVUAUT1  DISK REV43 RVUAUT1  * (LRECL 80'
'FILEDEF RVUAUT2  DISK REV43 RVUAUT2  * (LRECL 80'
'FILEDEF RVUALT   DISK REV43 RVUALT   A (LRECL 9996 RECFM V'
'FILEDEF RVLOG01  DISK REV43 RVLOG01  A (LRECL 9996 RECFM V'
'FILEDEF RVLOG02  DISK REV43 RVLOG02  A (LRECL 9996 RECFM V'
'FILEDEF RVUEXP   DISK REV43 RVUEXP   A (LRECL 80'
'FILEDEF RVUEXI   DISK REV43 RVUEXI   * (LRECL 80'
'FILEDEF RVUFLD   DISK REV43 RVUFLD   * (LRECL 80'
'FILEDEF RVUPARM  DUMMY
```

These file definitions are located in the file REV43 FILEDEFS and may be copied into the Adabas start-up EXEC directly after the DATADEF statements.

Add the following file definitions to your Adabas start-up EXEC:

```
'FILEDEF RVUPRT00 DISK REV43 REVPRT00 A (LRECL 133'
'FILEDEF RVUPRT01 DISK REV43 REVPRT01 A (LRECL 133'
'FILEDEF RVUPRT02 DISK REV43 REVPRT02 A (LRECL 133'
'FILEDEF RVUPRT03 DISK REV43 REVPRT03 A (LRECL 133'
'FILEDEF RVUAUT1  DISK REV43 RVUAUT1  * (LRECL 80'
'FILEDEF RVUAUT2  DISK REV43 RVUAUT2  * (LRECL 80'
'FILEDEF RVUALT   DISK REV43 RVUALT   A (LRECL 9996 RECFM V'
'FILEDEF RVLOG01  DISK REV43 RVLOG01  A (LRECL 9996 RECFM V'
'FILEDEF RVLOG02  DISK REV43 RVLOG02  A (LRECL 9996 RECFM V'
'FILEDEF RVUEXP   DISK REV43 RVUEXP   A (LRECL 80'
'FILEDEF RVUEXI   DISK REV43 RVUEXI   * (LRECL 80'
'FILEDEF RVUFLD   DISK REV43 RVUFLD   * (LRECL 80'
'FILEDEF RVUPARM  DUMMY
```

These file definitions are located in the file REV43 FILEDEFS and may be copied into the Adabas start-up EXEC directly after the DATADEF statements.

Install Adabas Review in the Natural Machine

▶ **Step 1: Modify and assemble the Adabas link routine**

■ Modify the Adabas link routine for z/VM (ADALNK) to specify

```
LRINFO EQU 256
```

then assemble ADALNK.

▶ **Step 2: Create a modified Adabas link routine**

The Adabas z/VM link routine created in step 1 must be combined with the Adabas Review link routine exit.

■ On the command line, enter the command

```
REVLINK
```

You will be prompted for the name of the Adabas TXTLIB.

This EXEC will rename your current ADALNK module and create a new ADALNK module that includes the Adabas Review user exit routines.

> **Note:** The new ADALNK module must be made available to Natural prior to startup of Adabas Review.

▶ **Step 3: Restart Adabas**

▶ **Step 4: Initialize and test Adabas Review**

■ Refer to section *Starting Adabas Review* for more information on initializing and verifying the installation of the online portion of Adabas Review.

Optional Installation Procedures

Implement Support for Adabas Native SQL

From within Adabas Native SQL, use the global ADACALL statement with the `LAST` parameter to specify that the Adabas call will use the seventh parameter.

Refer to the Adabas Native SQL documentation.

3 Starting Adabas Review

This section of the documentation describes the procedures for setting up and using Adabas Review after the installation has been completed.

This chapter covers the following topics:

Starting Adabas Review for the First Time

If this is the first time you have installed Adabas Review 4.3, or you have loaded a new Adabas Review repository file, you must initialize

- the user profile system for controlling user access to Adabas Review; and
- the Adabas Review data file, which designates a DBID and SVC for the Adabas Review repository, and installs the supplied Review reports.

Initializing the Review User Profile System

▶ **To initialize the Review user profile system**

1   Access Natural as you normally do.

2   At the NEXT prompt, log on to the library SYSREVDB.

> **Note:** Wherever the NEXT prompt is specified, the command can also be issued from the Natural main menu command line.

3   At the NEXT prompt, enter   INSTALL UP and press ENTER.

The initializes the Review user profile system and adds one default user record to the system. You must have this initial user defined in order to enter Adabas Review.

The following message appears when the user profile subsystem has been successfully installed:

```
Default user profile installed
```

4   At the NEXT prompt, enter MENU and press ENTER to display the main menu:

```
14:20:20                 A D A B A S  -  R E V I E W           2003-03-10
                               Main Menu                       LOCL=00222

                 Code                  Description
                 ----       --------------------------------
                  AA           Available ADABAS Nuclei
                  AO           ADABAS Online System
                  EB           Edit Buffer Pool Report
                  EL           Edit Pulse Report
                  ER           Edit Report Definition
                  ET           Edit Target Definition
                  EX           Edit Cluster Services Report
                  LH           List History Reports
                  LR           List Report Definitions
                  LS           List Started Reports
                  LT           List Target Definitions
                  SV           SVCs for AA
                  UP           User Profiles
                 ----       --------------------------------

Command: _____


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help      Exit                                                    Fin
```

Initializing the Adabas Review Data File

Note: If you are using a repository from version 4.1, omit this step.

▶ **To initialize the Adabas Review data file**

1   At the main menu command line, enter INSTALL DB and press ENTER to display the Initialization Process window:

```
15:46:10                 A D A B A S  -  R E V I E W           2003-03-10
                               Main Menu                       LOCL=00222



            +-----------------------------------------------+
            |             Initialization Process            |
            |                                               |
            | You are about to save information into the    |
            | REVIEW repository.                            |
            |                                               |
            | The DBID/FNR of the REVIEW repository is      |
```
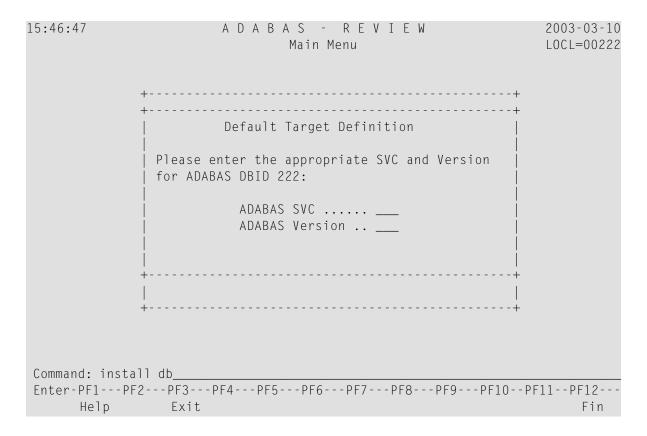
```
                | currently set to: DBID: 221                |
                |                    FNR:   12               |
                |                                            |
                | If this is correct enter 'YES' to continue, |
                | else press enter to cancel: ___            |
                |                                            |
                +--------------------------------------------+


 REV00001 - WELCOME TO REVIEW RUNNING UNDER COMPLETE
 Command: install db_____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9--PF10--PF11--PF12---
       Help       Exit                                                  Fin
```

2   Confirm or cancel the initialization.

You are prompted to confirm the DBID and FNR of the Adabas Review repository. If the DBID or FNR are not correct, you may cancel the initialization.

▪ To confirm the initialization, enter YES at the prompt.

▪ To cancel the initialization, press ENTER.

If the initialization is confirmed, the Default Target Definition screen appears:

```
 15:46:47              A D A B A S  -  R E V I E W            2003-03-10
                             Main Menu                        LOCL=00222



            +--------------------------------------------------+
            +--------------------------------------------------+
            |            Default Target Definition             |
            |                                                  |
            | Please enter the appropriate SVC and Version     |
            | for ADABAS DBID 222:                             |
            |                                                  |
            |            ADABAS SVC ...... ___                 |
            |            ADABAS Version .. ___                 |
            |                                                  |
            |                                                  |
            |                                                  |
            +--------------------------------------------------+
            |                                                  |
            +--------------------------------------------------+




 Command: install db_____
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help       Exit                                                  Fin
```

You are prompted to enter the Adabas SVC number and the Adabas version number of the database designated as the Adabas Review repository.

3   Type in the version number, and press ENTER.

Based on the information you provide, Review creates the default target definition and displays a message. A *target* is a database monitored by Review. For more information about target objects, refer to the *Adabas Review User Documentation*.

The Initialization Process screen appears as shown in the following example:

```
15:47:15                    A D A B A S  -  R E V I E W                  2003-03-10
                              Initialization Process                      LOCL=00222


      REV00104 - NOW CREATING DEFAULT TARGET DEFINITION
      REV00054 - NOW CREATING SAMPLE REPORT SUMMARY REPORT BY FILE
      REV00054 - NOW CREATING SAMPLE REPORT EXCEPTIONAL RESPONSE CODES
      REV00054 - NOW CREATING SAMPLE REPORT LONG RUNNING COMMANDS
      REV00054 - NOW CREATING SAMPLE REPORT COMMANDS BY HOUR
      REV00054 - NOW CREATING SAMPLE REPORT RATE OF COMMANDS AND IOS BY HOUR
      REV00054 - NOW CREATING SAMPLE REPORT RATE OF COMMANDS AND IOS BY DATE
      REV00054 - NOW CREATING SAMPLE REPORT NATURAL SUMMARY
      REV00054 - NOW CREATING SAMPLE REPORT WHO IS USING NATURAL
      REV00054 - NOW CREATING SAMPLE REPORT NATURAL PROGRAM TRACE
      REV00054 - NOW CREATING SAMPLE REPORT WHO USES SYSMAIN
      REV00054 - NOW CREATING SAMPLE REPORT TRANSACTION COUNT BY JOB
      REV00054 - NOW CREATING SAMPLE REPORT TRANSACTION COUNT BY JOB-NATAPPL
      REV00054 - NOW CREATING SAMPLE REPORT TRANSACTION COUNT BY JOB-USER
      REV00054 - NOW CREATING SAMPLE REPORT TRANSACTION COUNT BY NATURAL

 REV00006 - PRESS 'ENTER' TO CONTINUE INITIALIZATION PROCESS

 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
```

The Adabas Review supplied reports are automatically added to the Adabas Review repository. As each report is added, a line is added to the Initialization Process screen. Each time the screen fills, you receive the following prompt:

```
Press ENTER to continue the initialization process
```

4   Press ENTER as requested; continue until all Adabas Review supplied reports are initialized.

After all the reports are initialized, you are returned to the Review main menu.

Accessing Adabas Review

▶ **To access Adabas Review**

1   Access Natural as you normally do.

2   At the NEXT prompt, log on to the library SYSREVDB (type `LOGON SYSREVDB`).

> 　**Note:** Wherever the NEXT prompt is specified, the command can also be issued from
> the Natural main menu command line.

3   At the NEXT prompt, type `MENU` and press ENTER to access the Review main menu:

```
14:20:20               A D A B A S  -  R E V I E W              2003-03-10
                            Main Menu                           LOCL=00222


               Code              Description
               ----     --------------------------------
                AA           Available ADABAS Nuclei
                AO           ADABAS Online System
                EB           Edit Buffer Pool Report
                EL           Edit Pulse Report
                ER           Edit Report Definition
                ET           Edit Target Definition
                EX           Edit Cluster Services Report
                LH           List History Reports
                LR           List Report Definitions
                LS           List Started Reports
                LT           List Target Definitions
                SV           SVCs for AA
                UP           User Profiles
               ----     --------------------------------



Command: _____



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help       Exit                                                   Fin
```

Verifying the Installation

To confirm that Adabas Review is correctly installed, the installation is verified each time you enter the Adabas Review online subsystem.

The following errors may be detected during processing:

USER BUFFER NOT LARGE ENOUGH

Explanation The user buffer extension is not large enough for Adabas Review to pass data to Adabas. The parameter LRVINFO has not been set correctly in the Adabas/VM link routine.

Action Use the procedure in the installation section of the documentation to correctly install the Adabas Review link routine exit in the Adabas/VM link routine.

ADAPRM IS MISSING FROM THE PARAMETER LIST

Explanation The Natural ADAPRM area has not been passed in the parameter list for the Adabas call. The value ADAPRM=ON has not been set correctly in the NATPARM parameter module for the Natural nucleus currently executing.

Action Use the procedure in the installation section of the documentation to correctly add ADAPRM=ON to the Natural NATPARM parameter module.

1) USER BUFFER EXTENSION NOT LARGE ENOUGH AND
2) ADAPRM IS MISSING FROM THE PARAMETER LIST

Explanation 1) The user buffer extension is not large enough for Adabas Review to pass data to Adabas. The parameter LRVINFO has not been set correctly in the Adabas/VM link routine.

2) The Natural ADAPRM area has not been passed in the parameter list for the Adabas call. The value ADAPRM=ON has not been set correctly in the NATPARM parameter module for the Natural nucleus currently executing.

Action 1) Use the procedure in the installation section of the documentation to correctly install the Adabas Review link routine exit in the Adabas/VM link routine.

2) Use the procedure in the installation section of the documentation to correctly add ADAPRM=ON to the Natural NATPARM parameter module.

THE REVIEW ADABAS LINK ROUTINE IS NOT CORRECTLY INSTALLED

Explanation The Adabas Review link routine exit is not installed in the copy of the Adabas/VM link routine currently being executed.

Action Use the procedure in the installation section of the documentation to correctly install the Adabas Review link routine exit in the Adabas/VM link routine.

THE ADABAS REVIEW REPOSITORY HAS NOT BEEN INITIALIZED

Explanation Adabas Review could not initialize because the repository file has not been initialized.

Action Use the procedure in the section *Initializing the Adabas Review Data File* to correctly initialize the repository file.

4 Operations

This section of the documentation describes operational procedures and processes for Adabas Review after it has been installed and initialized.

This chapter covers the following topics:

Processing ABENDs

If Adabas Review processing terminates abnormally (ABENDs), the Adabas Review routine ESTAE is given control.

This routine traps the ABEND, and prints diagnostic information and a dump to expedite the analysis and resolution of the ABEND to ADASNAP.

The routine also disables Adabas Review processing for the remainder of the Adabas nucleus session.

Contact your Software AG technical support representative with the printed information for assistance in resolving the ABEND.

ABEND Protection for Adabas

Adabas is protected from termination if Adabas Review ABENDs. Adabas processing will continue without interruption.

> **Note:** Although Adabas will be temporarily unavailable during dump processing, it will continue processing as usual once the dump has completed.

Message to Adabas Review Users

Users attempting to access Adabas Review following a trapped ABEND will receive the following message:

```
Review not installed on database
```

Messages to the Console

The progress of the error handling routine is reported by messages written to the console. The following is an example sequence of console messages sent during ABEND processing:

```
REVESTAE - REVIEW ESTAE EXIT DRIVEN
REVESTAE - REVIEW NOW DISABLED
REVESTAE - ABEND 000C1000 PSW 078D2000 80129E98
REVESTAE - R0  00000002 - R1  0D652DD0 - R2  000FD240 - R3  000FBCC0
REVESTAE - R4  00129C48 - R5  0D50AFA8 - R6  0D6E8000 - R7  001331F8
REVESTAE - R8  0D50B0E8 - R9  800E93E0 - R10 00042000 - R11 0D5007E0
REVESTAE - R12 80128C48 - R13 00128D68 - R14 001294BA - R15 8000DD10
REVESTAE - DUMP HAS BEEN TAKEN
REV20126 - REVIEW SUB-TASK DETACHED
REV20129 - HISTORY SUB-TASK DETACHED
```

Adding Adabas Start-up Statements at Installation

Statements must be added to the Adabas start-up job to accommodate Adabas Review. These statements are added during the installation of Adabas Review.

The added statements control many of the operating features of Adabas Review. Some identify parameter files that may be edited by the Review administrator.

The start-up statements may be edited, or additional statements may be needed, depending upon the needs of your site. However, deleting any of these statements will affect the functioning of Adabas Review and is, therefore, not recommended.

Adabas Start-up Statements

The following is a listing of the statements added to the Adabas start-up job for z/VM during Adabas Review installation.

The following file definitions are added to the Adabas start-up EXEC:

```
'FILEDEF RVUPRT00 DISK REV43  REVPRT00  A  (LRECL 133'
'FILEDEF RVUPRT01 DISK REV43  REVPRT01  A  (LRECL 133'
'FILEDEF RVUPRT02 DISK REV43  REVPRT02  A  (LRECL 133'
'FILEDEF RVUPRT03 DISK REV43  REVPRT03  A  (LRECL 133'
'FILEDEF RVUAUT1  DISK REV43  RVUAUT1   *  (LRECL 80'
'FILEDEF RVUAUT2  DISK REV43  RVUAUT2   *  (LRECL 80'
'FILEDEF RVUALT   DISK REV43  RVUALT    A  (LRECL 9996 RECFM V'
'FILEDEF RVLOG01  DISK REV43  RVLOG01   A  (LRECL 9996 RECFM V'
'FILEDEF RVLOG02  DISK REV43  RVLOG02   A  (LRECL 9996 RECFM V'
'FILEDEF RVUEXP   DISK REV43  RVUEXP    A  (LRECL 80'
'FILEDEF RVUEXI   DISK REV43  RVUEXI    *  (LRECL 80'
'FILEDEF RVUFLD   DISK REV43  RVFLD     *  (LRECL 80'
'FILEDEF RVUPARM  DUMMY
```

The Adabas start-up statements listed above identify files that are used by Adabas Review. Each of these files is described in the following section *Files Created by Adabas Start-up Statements*.

Files Created by Adabas Start-up Statements

RVLOG01 and RVLOG02 Command Logging Files

RVLOG01 and RVLOG02 are sequential command logging files. Each report performing command logging must reference a unique file name prefix and the number of command log files associated with that file name prefix.

> **Note:** All command log datasets for a particular report must be the same size.

Under z/VM, Adabas Review allows each report to have up to 99 command log files, and writes to these files in sequential order. A FILEDEF statement must be added to the RMTNUC EXEC for each command log file. The names of these command log files are made up of the file name prefix and a sequential number. The files have the following DCB attributes:

```
RECFM=VB,BLKSIZE=10000,LRECL=9996,DSORG=PS
```

Refer to the section *Setting Up Command Logging* for more information.

RVUALT History File

Adabas Review reports may specify whether the data accumulated by the report will also be written to the Adabas Review repository. Historical data is useful for monitoring database performance and for performing trend analysis.

The parameters that determine whether Adabas Review writes historical data are set when a user creates or edits a report definition. These history parameters appear on the Report Options screen of the Edit Report (ER) function.

If historical data is to be written by a report running in batch mode, the history parameters make up the COPY statement.

A RVUALT file is an alternate sequential file to which historical data is written when it cannot be written to the Adabas Review repository.

Under z/VM, the RVUALT file is allocated automatically by Adabas Review. If Adabas Review is installed on multiple databases, a RVUALT dataset is allocated for each database.

Adabas Review receives a response code 148 (Adabas not active) and writes the data to the RVUALT file in situations where the Adabas Review repository is on the same database that is being monitored. The response code is returned when the database is brought down and Adabas Review tries to write the historical data.

The next time Adabas is started, another subtask is started to copy the historical data from the RVUALT file to the Adabas Review repository.

RVUAUT1 and RVUAUT2 Report Definition Datasets

RVUAUT1 and RVUAUT2 are datasets that contain the report definition control statements for autostarted reports. Adabas Review generates the statements and writes them to these files. When Adabas is initialized, the reports are started automatically.

Under z/VM, the RVUAUT1 and RVUAUT2 datasets are provided on the Adabas Review installation tape.

RVUCARD Dataset for GENCARD Command

RVUCARD is a dataset used by the `GENCARD` command. The `GENCARD` command creates batch parameter statements from report definitions created online.

Under z/VM, RVUCARD is not used.

RVUEXI Parameter File

RVUEXI is a parameter file that contains parameters which control the Adabas Review operating environment. The Review administrator may edit the RVUEXI parameters according to the specific needs of the site.

Refer to the section *Editing the RVUEXI Parameter File* for more information.

RVUEXP Companion Output File

RVUEXP is a companion file to RVUEXI and if specified, any parameter processing errors encountered in RVUEXI will be written to the RVUEXP output file.

RVUFLD User Field Parameter Dataset

The RVUFLD dataset contains parameter control statements for creating user-defined fields. Parameters in this dataset define the length, type, and location of reporting fields to be determined by the user.

RVUPARM Dummy Dataset

The recommended procedure is to set RVUPARM as a dummy dataset. In previous releases, batch parameter statements were read from this file. Because these statements may now be generated using the `GENCARD` command, you no longer need to code batch parameters manually. Parameters may be coded in this dataset if desired, and Adabas Review will access this dataset prior to accessing datasets specified by RVUAUT1 and RVUAUT2.

Under z/VM, a FILEDEF of "dummy" can be used.

📄 **Note:** When RVUPARM has been "dummied", the message **REV20164 - Open failed for RVUPARM** is displayed. In this case, the message is normal and should be ignored. The message does not occur if instead you create a RVUPARM dataset that contains only an asterisk.

RVUPRTnn Logical Printer Files

RVUPRT00 for Adabas Review Statistics

RVUPRT00 is the Adabas Review logical printer for statistics about Adabas Review operations, such as number of reports, number of records processed, etc.

RVUPRTnn Files for Reports

```
RVUPRT01, 02, ... nn
```

RVUPRT01 and above are Adabas Review logical printers used for reports. One logical printer is shared by all summary reports; each detail report requires its own logical printer. A job control statement corresponding to each logical printer must be added to the Adabas start-up JCL.

Assignment of logical printers to reports depends on the order in which the reports are started:

- If the first report started is a *summary* report, RVUPRT01 is used for all summary reports.

- If the first report is a *detailed* report, RVUPRT01 is assigned to the detailed report, and another logical printer is used for summary reports. When a detail report is purged, the corresponding printer number is freed. The next detail report started will reuse the lowest available printer number.

Editing the RVUEXI Parameter File

The RVUEXI file contains parameters to control the Adabas Review operating environment. The Adabas Review administrator may edit the following RVUEXI parameters according to the specific needs of the site.

📄 **Note:** Default values are underlined in the following tables.

RVUEXI User-Specified Parameter

Parameter	Possible Values	Default
UIDT-CELLS	100-10000	1000

The user ID table is managed using a hashing algorithm. This value is numeric and specifies the number of 8-byte cells that should be allocated to the user ID table manager.

RVUEXI Timeout Parameters

Parameter	Possible Values	Default
UCMD-TIMEOUT	0-999	60

A small reentrant storage area is allocated for each active user of the Adabas Review online system (LIST, VIEW, START, PURGE reports functions). This area is deallocated when the user finishes each online request.

However, if the user's Natural session terminates abnormally during an Adabas Review operation, the Adabas Review nucleus may not have the opportunity to deallocate the reentrant area.

Specifying the `UCMD-TIMEOUT` parameter gives the Adabas Review nucleus a timeout value after which these inactive areas are deallocated. The timeout value is numeric and is specified in minutes.

Parameter	Possible Values	Default
UIDT-TIMEOUT	1-999	60

To report on the field `TPTRANCT`, Adabas Review must maintain a work area for each user that accesses Adabas. This area is called the user ID table.

If this field is specified in a report, the facility is activated and an area is allocated when Review receives the first call from each user. The area is deallocated when Review receives an Adabas CLOSE (`CL`) command for that user.

However, if the user's application does not issue a `CL` during termination, Review is unaware that the session has terminated.

The `UIDT-TIMEOUT` parameter is used to expire inactive user ID table elements. If the field `TPTRANCT` is *not* specified in any active reports, Review will *not* maintain user ID table elements for each user. This value is numeric and specifies the timeout value in minutes.

RVUEXI Operating System Parameter

Parameter	Possible Values	Default
CMS-FULLSYNCH	YES	NO	NO

Specifies whether REVIEWB should be called for every command log record instead of when the REVIEW-BUFFER is full.

Command Logging Considerations

This section discusses administrative considerations when performing Adabas Review command logging.

Command Logging Information Flow

Command log information is passed from Adabas to Adabas Review. Under some conditions, information is returned to Adabas. Information flows between Adabas Review and Adabas as follows:

1. Adabas passes command logs to Adabas Review.

   All Adabas command logging information is passed to Adabas Review.

2. User determines what information is reported.

   Adabas Review users are given the option to suppress any unnecessary information on a report-by-report basis. This option is available from the Edit Report (ER) function. The user selects from parameters that mirror the ADARUN parameters.

Setting Up Command Logging

The user has options for determining how command logging is processed for reports. However, the Adabas Review administrator must complete the following tasks to set up the Adabas Review environment so that command logging can take place:

1. Allocate command log datasets.

   Command log datasets must be allocated for reports.

2. Add control statements to the REV43 FILEDEFS member.

   Each report that performs command logging must have a command log file assigned to it. For each command log file, there must be a corresponding entry in the REV43 FILEDEFS member.

The name must be a five-character name followed by a sequential number (01, 02, etc.) corresponding to the number of command logs.

For example, if the name is CMLOG and there are two datasets to be defined, two statements are required with names as follows:

```
CMLOG01
CMLOG02
```

The five-character name is referenced by the report in the command logging report option FILE. The total number of datasets is referenced by the report in the command logging report option NUM OF LOGS.

Refer to the section *RVLOG01 and RVLOG02 Command Logging Files* for more information.

Using the Command Logging User Exit

Adabas Review writes to command log files in sequential order. When a command log file is filled, Adabas Review closes the file and switches to the next sequential file. If all files have been filled, Adabas Review switches back to the oldest file and begins again.

If a command logging user exit is *not* specified, Adabas Review simply closes a filled command log file and opens the next file. When all files are filled, Adabas Review writes over the file containing the oldest data.

LOGUEXIT

A user exit is provided so that the data contained in the command log file may be copied to a new file before the command log file is overwritten with new command log data. This user exit is called each time a command log file is closed or opened.

The source library member LOGUEXIT contains sample code for the user exit that processes command logs. You may modify this exit so that it conforms to your site requirements, and users may include the exit name on the Report Options screen of their report definition.

End-of-File Marker Position

When a command log file is opened, the user exit checks the position of the end-of-file marker to determine if there is any data in the command log file.

▪ If the position indicates that there is *no* data in the file, Adabas Review writes command log data to the file.

▪ If the position indicates that there *is* data in the file, Adabas Review sends a message to the operator asking whether Review should wait until the copying of the command log is completed, or begin writing to the command log file and overwrite the existing data.

Modifying Configuration Parameters

The Adabas Review administrator can modify configuration parameter values in the Natural text member CONFIGDB.

▶ **To access and modify the CONFIGDB parameters**

1   At the Natural NEXT prompt, type `LOGON SYSREVDB` and press ENTER.

2   Type the command `EDIT CONFIGDB` and press ENTER. Modify the parameters as required.

3   Type `SAVE` and press ENTER to save the changes.

4   Type `MENU` at the prompt to return to Review.

CONFIGDB File Parameter Description

CONFIGDB, which contains parameters that affect Adabas Review, is saved in the Natural library SYSREVDB.

Parameter	Possible Values	Default
CURSOR-POSITION	BOT	TOP	BOT

Specifies whether the cursor is placed on the command line (BOT) in list displays, or on the SEL field (TOP).

Parameter	Possible Values	Default
DECIMAL-CHAR	NAPARM DC=*value*	.

Specifies the decimal character to use when generating Review reports. The value specified should match the value specified for the NATPARM DC parameter. To determine the current setting of the NATPARM DC parameter, issue `GLOBALS` at the NEXT prompt. The Review default value for `DECIMAL-CHAR` is a period ('.').

Parameter	Possible Values	Default
PC-FILE	'text'	'DOWNLOAD-PC-FILE-5'

Specifies the value to be used in the DOWNLOAD statement in the Review-generated programs. The value specified must be delimited with single apostrophes. The field is alphanumeric, maximum 20 characters.

Parameter	Possible Values	Default
RVXB-MESSAGE	YES	NO	YES

Specifies whether to display error messages about the incorrect installation of the Adabas Review link routine exits during installation verification.

Parameter	Possible Values	Default
UBAR	any valid character		

Specifies the character to be used in maps as the vertical border. Any character recognized by your system is valid; the default value is '|'.

Parameter	Possible Values	Default
CLOSE-DBID	YES	NO	NO

Specifies whether to issue a close (`CL`) command to the old Adabas Review database when a new database is accessed with the `DBID=` command.

Parameter	Possible Values	Default
REVIEWDB-UEX	name	exit not enabled

Specifies the name of the site-dependent Natural routine to be called for validation of a user's access to an Adabas Review function.

Refer to Natural source member N-USEXIT for more information on the calling and processing conventions for this exit.

Parameter	Possible Values	Default
MAXIMUM-MAXK	0	*nnnn*	0

Specifies the maximum value that can be specified for the report option, Max K. The Max K value determines the maximum amount of storage available for a specific report.

A value of 0 (the default) indicates that the Max K option is not restricted.

When specifying a value, MAXIMUM-MAXK must be 4 or greater.

Parameter	Possible Values	Default
OPEN-DBID	YES	NO	NO

Specifies whether an open (OP) command is issued to the new Adabas Review database when a new database is accessed with the DBID= command.

Review Natural User Exits

Review has two Natural user exits. These exits are found in the Review system library in Natural, and may be modified by using the Natural editor. They are applicable to both the Adabas Review and Review Data Communication systems.

P-UEXIT1

Use:	You may place coding in this program to allow for site-specific needs.
Invoked:	This program is invoked when the online portion of Review is entered.
Example 1:	Setting colors on (SET CONTROL 'T3279').
Example 2:	Turning the PC mode on or off.
Remark:	This program must not alter the Natural stack, and it must end with a STOP command.

P-UEXIT2

Use:	You may place coding in this program to alter the processing that occurs when terminating Review.
Invoked:	This program is invoked when the online portion of Review is terminated.
Example 1:	Returning to Natural rather than terminating your session.
Example 2:	Logging on to another Natural application.
Example 3:	Returning to a previous Natural application (using SETUP/RETURN).

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