

Installation: Phase 1

Adabas Review can be installed in local mode in the Adabas address space, or as a hub (server) in its own address space with an interface (client) located in the address space of the Adabas being monitored. The procedures are the same except as noted.

Adabas Review is installed in two phases. This chapter describes Phase 1, which comprises all the steps that are independent of any particular TP monitor environment, as follows:

- Install Adabas Review under Natural
- Install the Adabas Review Repository
- Install Adabas Review under Adabas
- Install the Adabas Review Hub
- Optional Installation Procedures

To complete Phase 1 of the installation, read the sections in Phase 1 that apply to the type of installation you have chosen and follow the steps described in those sections in order they are described in this chapter.

Phase 2, which comprises the steps that are specific to the TP monitor being used, is described in *Installation: Phase 2*

Install Adabas Review under Natural

This section applies to both local and hub mode installations. It includes the following steps:

- Step 1. Allocate and unload the installation files to disk
- Step 2. INPL Adabas Review
- Step 3. Create a Natural profile using the SYSPARM facility
- Step 4. Define Adabas Review to Natural Security

Step 1. Allocate and unload the installation files to disk

Use the sample job provided in this step to allocate and copy the Adabas Review installation files to disk. All data set sizes are based on 3390 device types. Be sure to make the following replacements in the JCL:

Replace...	With...
vrs	the current version, revision, and system maintenance (SM) level of Adabas Review
n	the data set sequence number
vvvvvv	the tape volume serial number
??????	the disk volume serial number

```
//RESTORE JOB (accounting),CLASS=A,MSGCLASS=X
//IEBGENER EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=X
//SYSIN DD DUMMY,BLKSIZE=80
//SYSUT1 DD DSN=REVvrs.INPL,DISP=(OLD,PASS),UNIT=TAPE,
// LABEL=(n,SL),VOL=(,RETAIN,SER=vvvvvv)
//SYSUT2 DD DISP=(,CATLG,DELETE),DSN=REVvrs.INPL,
// VOL=SER=??????,UNIT=SYSDA,SPACE=(CYL,(10,1))
//*
//IEBGENER EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=X
//SYSIN DD DUMMY,BLKSIZE=80
//SYSUT1 DD DSN=REVvrs.SYSF,DISP=(OLD,PASS),UNIT=TAPE,
// LABEL=(n,SL),VOL=(,RETAIN,SER=vvvvvv)
//SYSUT2 DD DISP=(,CATLG,DELETE),DSN=REVvrs.SYSF,
// VOL=SER=??????,UNIT=SYSDA,SPACE=(CYL,(1,1))
//*

//IEBCOPY EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=X
//IN DD DSN=REVvrs.SRCE,DISP=(OLD,PASS),UNIT=TAPE,
// LABEL=(n,SL),VOL=(,RETAIN,SER=vvvvvv)
//OUT DD DISP=(,CATLG,DELETE),DSN=REVvrs.SRCE,
// VOL=SER=??????,UNIT=SYSDA,SPACE=(CYL,(1,1,10))
//SYSIN DD *
COPY I=IN,O=OUT
//*
//IEBCOPY EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=X
//IN DD DSN=REVvrs.JOBS,DISP=(OLD,PASS),UNIT=TAPE,
// LABEL=(n,SL),VOL=(,RETAIN,SER=vvvvvv)
//OUT DD DISP=(,CATLG,DELETE),DSN=REVvrs.SRCE,
// VOL=SER=??????,UNIT=SYSDA,SPACE=(CYL,(1,1,10))
//SYSIN DD *
COPY I=IN,O=OUT
//*
//IEBCOPY EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=X
//IN DD DSN=REVvrs.LOAD,DISP=(OLD,PASS),UNIT=TAPE,
// LABEL=(n,SL),VOL=(,RETAIN,SER=vvvvvv)
//OUT DD DISP=(,CATLG,DELETE),DSN=REVvrs.LOAD,
// VOL=SER=??????,UNIT=SYSDA,SPACE=(CYL,(3,1,12))
//SYSIN DD *
COPY I=IN,O=OUT
//*
//IEBGENER EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=X
//SYSIN DD DUMMY,BLKSIZE=80
//SYSUT1 DD DSN=REVvrs.Z000,DISP=(OLD,PASS),UNIT=TAPE,
// LABEL=(n,SL),VOL=(,RETAIN,SER=vvvvvv)
```

```
//SYSUT2 DD DISP=(,CATLG,DELETE),DSN=REVvrs.Z000,
// VOL=SER=??????,UNIT=SYSDA,SPACE=(CYL,(1,1,10))
//*
//IEBGENER EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=X
//SYSIN DD DUMMY,DCB=BLKSIZE=80
//SYSUT1 DD *
//SYSUT2 DD DISP=(,CATLG,DELETE),DSN=REVvrs.ALTHIST,
// VOL=SER=??????,UNIT=SYSDA,SPACE=(CYL,(2,2)),
// DSORG=PS,RECFM=VB,LRECL=9996,BLKSIZE=10000
```

Step 2. INPL Adabas Review

Note:

There is no longer a SYSREV or SYSREVUP library. The entire application is now contained in the SYSREVDB library.

INPL the Adabas Review programs and DDMs from the INPL data set to your Natural system files.

You may use any of your site-dependent Natural INPL JCL. Sample job REVINPL is provided in the Adabas Review jobs library.

Step 3. Create a Natural profile using the SYSPARM facility

1. Include the following parameter settings in the Natural 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.
NETWORK(7),AM=PC	required for PC downloads. NETWORK 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.

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

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

Replace *dbid* and *fnr* with the database ID and 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 or hub mode. However, a

database with a DBID of 255 can send data to a hub.

3. Reassemble and link the NATPARM module to your Natural nucleus.

Step 4. Define Adabas Review to Natural Security

If Natural Security is installed:

1. Define the SYSREVDDB library for the Adabas Review system.

Note:

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

2. Define Adabas Review DDMs to Natural Security as public DDMs:

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

Install the Adabas Review Repository

This section applies to both local and hub mode installations.

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.

Hub mode only: The Adabas Review repository can be created on any database accessible to Natural. It does not need to be on a database that is monitored by the Adabas Review hub.

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. To convert an Adabas Review version 4.1 repository to a version 4.2 repository, run the EXPAND1 job from the JOBS library.
3. To convert an Adabas Review version 4.2 repository to a version 4.3 repository, run the EXPAND2 job from the JOBS library.

This step includes the following substeps:

- Step 1. Modify the JCL for loading the Adabas Review repository
- Step 2. Load the Adabas Review repository file

Step 1. Modify the JCL for loading the Adabas Review repository

Before submitting the job REVLOAD provided in the Adabas Review jobs library, change:

- the DBID=dbid parameter in the two ADARUN statements to reflect the DBID number of the database that will contain this file;

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.

- the SVC=svc parameter of the same two ADARUN statements to reflect the number of the SVC used for the database defined in the above step; and
- the ADALOD LOAD FILE=fnr statement to reflect the number of the file that will contain the Adabas Review file.

Step 2. Load the Adabas Review repository file

Load the Adabas Review repository file using the job REVLOAD modified in step 1.

Install Adabas Review under Adabas

This section includes the following steps:

- Step 1. Modify the Adabas initialization parameters
- Step 2. Modify the Adabas Startup JCL

Step 1. Modify the Adabas initialization parameters

Read *ADARUN Parameters* for information about the relevant ADARUN parameters. Then modify the Adabas ADARUN parameters to include the following:

- local mode only:

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

- hub mode only for each database to be monitored by Adabas Review:

```
ADARUN PROGRAM=ADANUC
ADARUN REVIEW=hubid
ADARUN UEX5=user-exit (optional)
```

where *hubid* is the Adabas Review hub ID and UEX5 is optional (see *Operations*).

- Optionally, you can also set up the Adabas Review repository for ISN reuse:

```
ISNREUSE=YES
```

Step 2. Modify the Adabas Startup JCL

Perform one of the sets of steps below, depending on whether you are installing Adabas Review in local mode or in hub mode:

- Local Mode
- Hub Mode: Client Interface Install

Local Mode

Before you modify the Adabas startup JCL, you may need to increase the REGION parameter for the Adabas nucleus job step to accommodate Adabas Review. An increase of one megabyte is normal.

This section covers the following topics:

- RVUALT Considerations
- RVUAUT1 and RVUAUT2 Considerations

RVUALT Considerations

- The RVUALT DD statement refers to the data set that contains the alternate history file. You may use the same data set you used for earlier versions. .
- The MAKEALT member of the jobs library contains sample JCL to create a RVUALT data set.



Warning:
Do not use IEFBR14 to allocate RVUALT.

- If Adabas Review is installed on multiple databases, a RVUALT data set must be allocated for each database.
- Refer to the *Operations* for RVUALT guidelines.

RVUAUT1 and RVUAUT2 Considerations

- The RVUAUT1 and RVUAUT2 DD statements refer to the data sets that contain the report definitions for autostarted reports. These statements point to members of a PDS; however, they may be defined to point to sequential data sets if desired.
- You can use the distributed RVUAUT1 and RVUAUT2 files from earlier versions.

▶ To modify the Adabas startup JCL for local mode:

1. Add the following DD statements to the Adabas startup JCL, replacing the *vrs* with the current version, revision, and system maintenance level number for Adabas Review:

```
//RVUEXI DD DISP=SHR,DSN=REVvrs.SRCE(RVUEXI)
//RVUEXP DD SYSOUT=X,LRECL=80
//RVUALT DD DISP=SHR,DSN=REVvrs.ALTHIST
//RVUAUT1 DD DISP=SHR,DSN=REVvrs.SRCE(AUT1PARM)
//RVUAUT2 DD DISP=SHR,DSN=REVvrs.SRCE(AUT2PARM)
//RVUCARD DD DISP=SHR,DSN=REVvrs.SRCE(RVUCARD)
//RVUFLD DD DISP=SHR,DSN=REVvrs.SRCE(USRPARM)
//RVUPARM DD DUMMY
```

```
//RVUPRT00 DD SYSOUT=X,LRECL=133
//RVUPRT01 DD SYSOUT=X,LRECL=133
//RVUPRT02 DD SYSOUT=X,LRECL=133

//RVUPRT03 DD SYSOUT=X,LRECL=133
//SYSUDUMP DD SYSOUT=X
//ADASNAP DD SYSOUT=X
```

2. Add the Adabas Review load library to the Adabas STEPLIB concatenation.

Note:

To retain APF authorization for Adabas, if you use it, you must authorize the Adabas Review load library as well when it is added to the Adabas STEPLIB concatenation.

Hub Mode: Client Interface Install

To install the Adabas Review client interface, repeat the following instructions for each database to be monitored. Each database to be monitored must use the same SVC as the Adabas Review hub.

Important:

If you are currently running Review DB 3.4 or below, you must completely uninstall it from the Adabas startup JCL.

 **To install the Adabas Review client interface for a database:**

1. Add the following to the front of the //STEPLIB concatenation:

```
//STEPLIB DD DISP=SHR,DSN=REVvrs.LOAD,
// DD (existing STEPLIB libraries)
```

2. Apply the required ZAPs.
3. Ensure that an unmodified Adabas version 7 ADALNK is available to Adabas in the Adabas load library or in a library concatenated before the Adabas load library.

ADALNK is loaded by Adabas to send information to the Adabas Review hub. Link routine exits such as RDBLXMVS or UEXB are not useful for the process of sending data to the hub and create unnecessary overhead when included in the ADALNK.

Put ADALNKs that include exits into another library.

4. Restart Adabas.

Install the Adabas Review Hub

To install the Adabas Review Hub, complete the steps described in this section:

- Step 1. Create a RVUALT data set
- Step 2. Modify the sample JCL member HUBJCL

- Step 2. Start the HUBJCL job

Step 1. Create a RVUALT data set

Use the sample JCL member MAKEALT. Do not use IEFBR14 to allocate RVUALT.

This *alternate history* file is used to contain history information if Adabas Review is unable to access the Adabas Review repository. You may use the same data set you used for Adabas Review 4.1 or 4.2. Refer to *Operations* for RVUALT guidelines.

Step 2. Modify the sample JCL member HUBJCL

- Correct any library names or file names.
- Modify the ADARUN parameter REVIEW=*hubid* to reflect the target ID you plan to use for the Adabas Review hub.
- Modify the ADARUN parameter SVC to reflect the correct SVC number. This SVC must be the same as that used by the sending Adabas nuclei.

The ADARUN parameters supplied in the sample JCL member HUBJCL are the only ones recognized for setting up the hub nucleus. Read *ADARUN Parameters* for information about these ADARUN parameters.

Note:

Software AG recommends that you set the dispatching priority of the Adabas Review hub higher than that of the sending Adabas nuclei.

- The RVUALT DD statement refers to the data set that contains the alternate history file.
- The RVUAUT1 and RVUAUT2 DD statements refer to the data sets that contain the report definitions for autostarted reports. These statements point to members of a PDS; however, they may be defined to point to sequential data sets if desired.

You can use the distributed RVUAUT1 and RVUAUT2 files from Adabas Review 4.1.

Note:

The reports contained in the RVUAUTn files have a TARGET= parameter that specifies the database that the report will monitor. The default setting is TARGET=001. You may wish to change this setting.

Step 2. Start the HUBJCL job

Note:

If the STEPLIB is not APF-authorized, message REVH16 is issued and Trans-*port* is disabled.

Optional Installation Procedures

The following optional installation procedures may be completed as part of Phase 1 of the Adabas Review installation:

- Implement Support for Adabas Native SQL
- Implement Support for Reporting from Batch Natural

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.

Implement Support for Reporting from Batch Natural

This (optional) step applies to both local and hub mode installations.

 **To report on Natural activity from a batch Natural job (Review 4.3 with Adabas 7.4.2 and above link routine):**

- Link the ADALNK for TSO/batch created in step 2 with the Adabas Review 4.3 link routine exit. Jobs library member LINKLNK contains the JCL necessary to do this.

Notes:

1. If you elect to use the link routine ADALNKX, link the batch Review link routine exit to ADALNKR.
2. Note: (Hub mode only) Software AG recommends that the modified ADALNK not be placed in the Adabas load library. Adabas uses ADALNK to send its information to the Adabas Review hub. The link routine exits cause unnecessary overhead for this process.

 **To report on Natural activity from a batch Natural job (Review 4.3 with Adabas 7.4.1 and below link routine):**

1. Modify the Adabas link routine for TSO/batch (ADALNK) to specify:

```
LRVINFO EQU 256
```

Note:

If you elect to use the link routine ADALNKX rather than ADALNK, make this change to ADALNKR.

2. Assemble and link ADALNK.

Note:

If you updated ADALNKR in the previous step rather than ADALNK, assemble and link ADALNKR.

3. Link the ADALNK for TSO/batch created in step 2 with the Adabas Review 4.3 link routine exit. Jobs library member LINKLNK contains the JCL necessary to do this.

Notes:

1. If you elect to use the link routine ADALNKX, link the batch Review link routine exit to ADALNKR.

2. Note: (Hub mode only) Software AG recommends that the modified ADALNK not be placed in the Adabas load library. Adabas uses ADALNK to send its information to the Adabas Review hub. The link routine exits cause unnecessary overhead for this process.