

## **Adabas Review**

### **Installation and Operations for VSE/ESA**

Version 4.3.2

September 2009

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.

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# 1 Installation and Operations for VSE/ESA

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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

- in local mode in the Adabas address space; or
- in hub mode as a hub (server) in its own address space with only interface (client) modules in the Adabas address space.

The Review installation documentation for VSE/ESA is organized as follows:

● <b>Preparing for the Installation</b>	Provides the information needed to prepare for the installation of Adabas Review under VSE/ESA operating system environments under the teleprocessing monitors Com-plete or CICS.
● <b>Installation: Phase 1</b>	Provides instructions for installing the components of Adabas Review that are independent of any particular TP monitor (phase 1).
● <b>Installation: Phase 2</b>	Provides instructions for installing the components of Adabas Review that depend on a particular TP monitor (phase 2).
● <b>Starting Adabas Review</b>	Discusses the initialization procedures performed by Adabas Review during startup.
● <b>Operations</b>	Describes operation procedures for Adabas Review.
● <b>ADARUN Parameters</b>	Discusses the Adabas ADARUN initialization parameters, most for use with the hub only.
● <b>Operator Commands</b>	Describes operator commands for use with the hub only.



# 2 Preparing for the Installation

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This section of the documentation provides installation preparation information for Adabas Review 4.3.2 or above under VSE/ESA operating system environments.

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.

For information about using Software AG's System Maintenance Aid (SMA) for the installation process, refer to the *System Maintenance Aid Documentation*.

If you are using SMA to install Adabas Review 4.3.2 or above under CICS and want to use the Adabas command-level link routine, set the `CMD-LEVEL-LINK` parameter in group `OPTION` to `Y`. This will ensure that the desired command-level link is assembled and linked with the correct Review TP interface module. Refer to the SMA P060 README job member for more detailed information about this and other SMA installation steps.

This chapter covers the following topics:

## Prerequisites

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### Adabas Version Requirements

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.

### Natural Version Requirements

Adabas Review version 4.3.2 supports Natural version 2.3.4 and above.

### TP Monitor Support

Adabas Review version 4.3.2 supports the following TP monitors at the indicated levels:

- Complete 5.1 or above
- CICS/VSE 2.3 or CICS/TS



## Installation Overview

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Adabas Review is installed in two phases:

1. Install non-TP-specific components. All steps in this phase are identical regardless of the TP monitor in use:
  - Install Adabas Review under Natural;
  - Install the Adabas Review repository;
  - Install Adabas Review under Adabas;
  - Install the Adabas Review hub (hub mode only);
  - Optional installation procedures.
2. Install TP-specific components. Separate procedures are used to install Adabas Review under each of the supported TP monitors: Com-plete and CICS.

Phase one procedures are described in section *Installation (Phase 1)*; phase two procedures in section *Installation (Phase 2)*.

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# 3 Installation (Phase 1)

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Adabas Review can be installed in local mode in the Adabas address space, or a hub (server) located 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 section of the documentation describes phase one, which comprises all the steps that are independent of any particular TP monitor environment.

To complete phase 1 of the installation, include all steps that apply to the type of installation you have chosen and follow them in order.

Phase 2, which comprises the steps that are specific to the TP monitor being used, is described in in section [Installation \(Phase 2\)](#).

This document covers the following topics:

- [The Installation Tape](#)
- [Install Adabas Review under Natural](#)
- [Install the Adabas Review Repository](#)
- [Install Adabas Review under Adabas](#)
- [Install the Adabas Review Hub](#)
- [Optional Installation Procedures](#)

## The Installation Tape

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### Tape Contents

The following sections describe the contents of the Adabas Review installation tape, the space requirements for each dataset, and instructions for copying the contents of the installation tape to disk. Sample JCS to accomplish the transfer is also included.

Refer to the *Report of Tape Creation* for the volume serial number, density, media type, dataset names, and dataset sequence numbers for the SM level being installed.

The Adabas Review 4.3.2 installation tape contains the following datasets:

Dataset	Created Using	Contents
REV43s.INPL	NATUNLD	Adabas Review Natural objects
REV43s.SYSF	ADAULD	Adabas Review repository file
REV43s.VSEZAPS	--	Adabas Review ZAP dataset
REV43s.VSELIBR	LIBR BACKUP	The Adabas Review sublibrary; contains relocatable objects, phases, source, and example installation jobs

## Size of Adabas Review



**Note:** This section applies only to Adabas Review in local mode.

The available GETVIS in the Adabas partition may need to be increased to accommodate Adabas Review. An increase of 500K is normal.

## Space Requirements

The space requirements for each of the datasets on the installation tape is shown below:

Dataset Name	Cylinders (3380)
INPL	15
SYSF	1 track
VSEZAPS	1
VSELIBR	10

Additionally, the alternate history file, which is created when installing Adabas Review under Adabas, requires additional space as follows:

Dataset Type	Cylinders (3380)
Alternate history file	2

## Sublibrary Members

The Adabas Review sublibrary members are listed below. A sublibrary name extension (a period followed by a single letter) indicates the function of each sublibrary.

- .A is used for Assembler code, examples, etc.;
- .X indicates job control statements or job streams.

Sublibrary members for Adabas Review are as follows:

Member	Description
ARCHIVE.X	Sample JCS to define Adabas Review 4.3.s to MSHP.
ASMLCC.X	For CICS installations; sample JCS to link the Adabas Review link routine exit with the CICS/Adabas command-level link routine; used when reporting on Natural usage in CICS.
ASMLCO.X	For Com-plete installations; sample JCS to assemble and link the Adabas Review link routine exit with the Com-plete/Adabas link routine; used when reporting on Natural usage in Com-plete.
ASMLCX.X	Sample JCS to assemble and catalog ADALCO.OBJ.

Member	Description
ASMLNK.X	For batch installations; sample JCS to assemble and link the Adabas Review link routine exit with the batch Adabas link routine; used when reporting on Natural usage in batch jobs.
DBFILES.X	Create Review datasets.
EXPAND1.X	Sample JCS to upgrade a version 4.1 repository to version 4.2.
EXPAND2.X	Sample JCS to upgrade a version 4.2 repository to version 4.3.
HISTCOMP.X	Sample JCS to compress history data from a batch Natural execution.
HISTDEL.X	Sample JCS to delete history data from a batch Natural execution.
HISTFIX.X	Sample job to run the correct history dates.
HISTVIEW.X	Sample JCS to view history data from a batch Natural execution.
HUBJCS.X	Sample JCS to start the Adabas Review hub server.
LINKREV.X	Sample job to relink Review after applying maintenance.
LOGUEXIT.A	Sample Assembler source code for an Adabas Review command logging user exit.
RAOSLUBS.A	Sample Assembler code to change the default logical units used by Adabas Review.
REVFDT.A	FDT control cards for the Adabas Review repository.
REVIEWB.X	Sample JCS to process a sequential command log by the batch component of Adabas Review.
REVINPL.X	Sample JCS to INPL the Adabas Review programs and DDMs from the INPL dataset to the Natural system files.
REVLOAD.X	Sample JCS to load the Adabas Review repository file into an Adabas version 7 environment.
REVPROC.X	Sample job to catalog the Review standard label procedure.
ZAPOPT.Z	Review optional zaps.

### Copying Contents of the Tape to Disk

▶ **Step 1: Allocate and Copy the Adabas Review 4.3.2 Installation Files to Disk**

Use the sample job provided below to allocate and copy the Adabas Review 4.3.2 installation files to disk. All dataset sizes are based on 3380 device types.

a Replace

<i>vrs</i>	with the version, revision, and system maintenance level of Adabas Review
<i>nnnn</i>	with the starting track number;
<i>vvvvvv</i>	with the tape volume serial number;
<i>ttt</i>	with the tape unit address;
<i>f</i>	with the number of files to forward space; refer to the <i>Report of Tape Creation</i> for this information.

- b Use the JCS in this substep to create a Software AG product library. If you already have a Software AG product library, omit this substep and proceed to substep 3.

```
// JOB DEFINE
// DLBL SAGLIB, 'SAG.PRODUCT.LIBRARY',99/365
// EXTENT, vvvvvv,1,0,nnnn,150
// EXEC LIBR
    DEFINE LIB=SAGLIB
/*
/ &
```

- c Catalog the Adabas Review PROC.

```
// JOB CATALOG
// EXEC LIBR
    ACCESS S=IJSYSRS.SYSLIB
    CATALOG REVvrs.PROC REPLACE=YES
// DLBL SAGLIB, 'SAG.PRODUCT.LIBRARY',99/365
// EXTENT, vvvvvv,1,0,nnnn,150
// LIBDEF PHASE,SEARCH=SAGLIB.REVvrs,TEMP
// LIBDEF PHASE,CATALOG=SAGLIB.REVvrs,TEMP
// LIBDEF SOURCE,SEARCH=SAGLIB.REVvrs,TEMP
// LIBDEF OBJ,SEARCH=SAGLIB.REVvrs,TEMP
/+
/*
/ &
```

- d Restore the Adabas Review sublibrary to disk.

```
// JOB REVIEW
// ASSGN SYS006,ttt
// MTC REW,SYS006
// MTC FSF,SYS006,f
// EXEC PROC=REVvrs
// EXEC LIBR
    RESTORE SUBLIB=SAGLIB.REVvrs:SAGLIB.REVvrs TAPE=SYS006 LIST=Y R=Y
    LD SUBLIB=SAGLIB.REVvrs OUTPUT=NORMAL
/*
/ &
```

Use the JCS in this substep to create a Software AG product library. If you already have a Software AG product library, omit this substep and proceed to substep 3.

```
// JOB DEFINE
// DLBL SAGLIB,'SAG.PRODUCT.LIBRARY',99/365
// EXTENT,vvvvvv,1,0,nnnn,150
// EXEC LIBR
  DEFINE LIB=SAGLIB
/*
/ &
```

Catalog the Adabas Review PROC.

```
// JOB CATALOG
// EXEC LIBR
  ACCESS S=IJSYSRS.SYSLIB
  CATALOG REVvrs.PROC REPLACE=YES
// DLBL SAGLIB,'SAG.PRODUCT.LIBRARY',99/365
// EXTENT, vvvvvv,1,0,nnnn,150
// LIBDEF PHASE,SEARCH=SAGLIB.REVvrs,TEMP
// LIBDEF PHASE,CATALOG=SAGLIB.REVvrs,TEMP
// LIBDEF SOURCE,SEARCH=SAGLIB.REVvrs,TEMP
// LIBDEF OBJ,SEARCH=SAGLIB.REVvrs,TEMP
/+
/*
/ &
```

Restore the Adabas Review sublibrary to disk.

```
// JOB REVIEW
// ASSGN SYS006,ttt
// MTC REW,SYS006
// MTC FSF,SYS006,f
// EXEC PROC=REVvrs
// EXEC LIBR
  RESTORE SUBLIB=SAGLIB.REVvrs:SAGLIB.REVvrs TAPE=SYS006 LIST=Y R=Y
  LD SUBLIB=SAGLIB.REVvrs OUTPUT=NORMAL
/*
/ &
```

## Install Adabas Review under Natural

---

### ▶ Step 1: INPL Adabas Review

This section applies to both local and hub mode installations.



- 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 JCS. Sample job *REVINPL.X* is provided in the Review library.

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

- a For Natural version 2.3, 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 in order to for 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.

- b 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.

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

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 3: Define Adabas Review to Natural Security**

 **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.

If Natural Security is installed:

- a Define the SYSREVDDB library for the Adabas Review system.
- 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

---

This step 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. Before using an existing Adabas Review version 4.1 repository as a version 4.2 repository, you must run the Expand job from the Jobs library, which adds new fields and increases the length of some fields.

▶ **Step 1: Modify the JCS for loading the Adabas Review repository**

- Before submitting the job REVLOAD.X provided in the Review sublibrary, change
  - the DATABASE=*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.X as modified in step 1.

## Install Adabas Review under Adabas

---

▶ **Step 1: Create Adabas Review-specific datasets**

Use the sample JCS member DBFILES.X in the Adabas Review sublibrary to create the datasets necessary to store autostarted report definitions, parameters, and the alternate history file.

- a Modify DBFILES.X by replacing

s	with the current system maintenance level of Adabas Review
nnnn	with the starting track number for each step in the job
vvvvvv	with the tape volume serial number

- b Execute the modified DBFILES.X.

Execute the modified DBFILES.X.

▶ **Step 2: Modify the Adabas initialization parameters**

See the section [ADARUN Parameters](#) for information about the relevant ADARUN parameters.

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

- local mode only:

```
ADARUN REVIEW=LOCAL
```

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

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

where *hubid* is the Adabas Review hub ID and UEX5 is optional (see section [User Exit 5 \(Adabas Review Hub Event Handler\)](#)).

▶ **Step 3: Apply the required ZAPs**

- Required ZAPS are delivered in the REV431.ZAPS dataset on the installation tape.

▶ **Step 4: Modify the Adabas start-up JCS**

- a **Local Mode**

Before you modify the Adabas start-up JCS, you may need to increase the available GETVIS in the Adabas partition to accommodate Adabas Review. An increase of 500K is normal.

**RVUALT Considerations**

- RVUALT refers to the dataset that contains the alternate history file. You may use the same dataset you used for earlier versions.
- If Adabas Review is installed on multiple databases, a RVUALT dataset must be allocated for each database.

- Refer to section *RVUALT History File* in *Operations* for RVUALT guidelines.

### RVUAUT1 and RVUAUT2 Considerations

- RVUAUT1 and RVUAUT2 refer to the datasets that contain the report definitions for autostarted reports.
- You can use the distributed RVUAUT1 and RVUAUT2 files from earlier versions.

### To modify the start-up JCS for local mode

1. Add the following statements to the Adabas start-up JCS replacing

vrs	with the current version, revision, and system maintenance level of Adabas Review
vvvvvv	with the tape volume serial number



**Note:** In Adabas Review, each logical unit (SYS number) is assigned to a specific Adabas Review function. If these logical units conflict with the assignments already made in your environment, refer to section *Operations* for instructions on how to reassign Adabas Review logical units. Substitute the reassigned logical units in the following start-up JCS.

```
// ASSGN SYS005,IGN                RVUPARM - batch parameters
// ASSGN SYS007,DISK,VOL=vvvvvv,SHR  RVUAUT1, RVUAUT2, RVUFLD
// ASSGN SYS008,DISK,VOL=vvvvvv,SHR  RVUALT - alt history file
// ASSGN SYS020,SYSLST              RVUPRT0 - printer
// ASSGN SYS021,SYSLST              RVUPRT1 - printer
// ASSGN SYS022,SYSLST              RVUPRT2 - printer
// ASSGN SYS023,SYSLST              RVUPRT3 - printer
// ASSGN SYS041,DISK,VOL=vvvvvv,SHR  RVUCARD - GENCARD
// ASSGN SYS006,DISK,VOL=vvvvvv,SHR  RVUEXI - operating env parameters
// ASSGN SYS019,SYSLST              RVUEXP - EXI parameters printer
*
// DLBL RVUAUT1,'REVvrs.AUT01',0
// EXTENT SYS007, vvvvvv,1,0,nnnn,5
// DLBL RVUAUT2,'REVvrs.AUT02',0
// EXTENT SYS007, vvvvvv,1,0,nnnn,5
*
// DLBL RVUCARD,'REVvrs.CARD.FILE',0
// EXTENT SYS041, vvvvvv,1,0,nnnn,5
*
// DLBL RVUALT,'REVvrs.ALT.FILE',0
// EXTENT SYS008, vvvvvv,1,0,nnnn,30
*
// DLBL RVUEXI,'REVvrs.EXI.PARAMETERS',0
// EXTENT SYS006, vvvvvv,1,0,nnnn,5
*
// DLBL RVUFLD,'REVvrs.USER.FIELDS',0
// EXTENT SYS007, vvvvvv
```


2. Modify the Adabas start-up JCS to execute the Adabas Review procedure and add the Review sublibrary to the LIBDEF search chain.

**b Hub Mode: Interface Install**

**To install the client interface in hub mode**

Repeat the following substeps 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, you must completely deinstall it from the Adabas start-up JCS.

1. Provide access to the Review sublibrary in the LIBDEF concatenation.
2. Restart Adabas.

**Hub Mode: Interface Install**

**To install the client interface in hub mode**

Repeat the following substeps 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, you must completely deinstall it from the Adabas start-up JCS.

1. Provide access to the Review sublibrary in the LIBDEF concatenation.
2. Restart Adabas.

**▶ Step 5: Define Adabas Review to MSHP**

Maintenance fixes are distributed in MSHP format. In order 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 Review sublibrary to define Adabas Review to MSHP.

## Install the Adabas Review Hub

### ▶ Step 1: Modify the sample JCS member HUBJCS.X

- a Correct any library names or file names.
- b Modify the ADARUN parameters:
  - Modify the ADARUN parameter `REVIEW` to reflect the `TARGET ID` you wish 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 HUBJCS.X are the only ones recognized for setting up the hub nucleus. See section [ADARUN Parameters](#) for information about these ADARUN parameters.



**Note:** Software AG recommends that the dispatching priority of the Adabas Review hub be set higher than that of the sending Adabas nuclei.

- c The RVUALT DLBL statement refers to the dataset that contains the alternate history file.

The RVUALT or "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 RVUALT dataset you used for earlier versions.

Refer to section [Operations](#) for RVUALT guidelines.

- d The RVUAUT1 and RVUAUT2 DLBL statements refer to the datasets that contain the report definitions for autostarted reports.

You can use the distributed RVUAUT1 and RVUAUT2 files from earlier versions.



**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.

The RVUFLD DLBL statement refers to the dataset that contains the user-defined field parameters.

Modify the ADARUN parameters:

- Modify the ADARUN parameter `REVIEW` to reflect the `TARGET ID` you wish 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 HUBJCS.X are the only ones recognized for setting up the hub nucleus. See section [ADARUN Parameters](#) for information about these ADARUN parameters.



**Note:** Software AG recommends that the dispatching priority of the Adabas Review hub be set higher than that of the sending Adabas nuclei.

The RVUALT DLBL statement refers to the dataset that contains the alternate history file.

The RVUALT or "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 RVUALT dataset you used for earlier versions.

Refer to section [Operations](#) for RVUALT guidelines.

The RVUAUT1 and RVUAUT2 DLBL statements refer to the datasets that contain the report definitions for autostarted reports.

You can use the distributed RVUAUT1 and RVUAUT2 files from earlier versions.



**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.

The RVUFLD DLBL statement refers to the dataset that contains the user-defined field parameters.

## ▶ Step 2: Start the HUBJCS job

## 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*.



## Implement Support for Reporting from Batch Natural (Review 4.3.2 with Adabas 7.4.2 and Above Link Routine)

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

The following step is required in order to report on Natural activity from batch Natural jobs.

### Link ADALNK with the Adabas Review link routine exit

Link the ADALNK for batch with the Adabas Review 4.3.2 link routine exit. Sublibrary member *ASMLNK.X* contains the JCS necessary to do this.



#### Notes:

1. If you elect to use the link routine ADALNKX, link the batch Review routine RDBLXVSE to ADALNKR.
2. For hub mode, 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.

## Implement Support for Reporting from Batch Natural (Review 4.3.2 with Adabas 7.4.1 and Below Link Routine)

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

The following steps are required in order to report on Natural activity from batch Natural jobs.

### Step 1. Modify, assemble, and link the Adabas batch link routine

Modify the Adabas link routine for batch (ADALNK) to specify

```
LRVINFO EQU 256
```

then assemble and link ADALNK.



**Note:** If you elect to use the link routine ADALNKX rather than ADALNK, make this change to ADALNKR and then assemble and link ADALNKR.

## Step 2. Link ADALNK with the Adabas Review link routine exit

Link the ADALNK for batch created in step 1 with the Adabas Review 4.3.2 link routine exit. Sublibrary member *ASMLNK.X* contains the JCS necessary to do this.



### Notes:

1. If you elect to use the link routine *ADALNKX*, link the batch Review routine to *ADALNKR*.
2. For hub mode, 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.

# 4 Installation: Phase 2

---

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The second phase installs the components that are specific to the particular TP monitor in use at your site. Separate procedures are used to install Adabas Review under each supported TP monitor: Com-plete and CICS.

This chapter covers the following topics:

## Install Adabas Review under Com-plete

---



**Note:** Adabas Review 4.3.2 must be executed with the Adabas 7.1.2 or above version of ADALCO.

### ▶ To install the Com-plete components of Adabas Review (Review 4.3.2 with Adabas 7.4.2 and above link routine)

- 1 Use the JCS contained in the sublibrary member ASMLCO.X to link the ADALCO modified in step 1 with the Adabas Review 4.3.2 link routine exit.



**Note:** The target of the link in this step must be a sublibrary in the Com-plete LIBDEF PHASE search concatenation.

- 2 Restart Adabas and Com-plete.
- 3 Initialize and test Adabas Review.

Refer to section [Starting Adabas Review](#) for information about initializing and verifying the installation of the online portion of Adabas Review.

### ▶ To install the Com-plete components of Adabas Review (Review 4.3.2 with Adabas 7.4.1 and below link routine)

- 1 Modify the Adabas link routine for Com-plete (ADALCO) to specify

```
LRVINFO EQU 256
```

then assemble and link ADALCO.

- 2 Use the JCS contained in the sublibrary member ASMLCO.X to link the ADALCO modified in step 1 with the Adabas Review 4.3.2 link routine exit.



**Note:** The target of the link in this step must be a sublibrary in the Com-plete LIBDEF PHASE search concatenation.

- 3 Restart Adabas and Com-plete.
- 4 Initialize and test Adabas Review.

---

Refer to section [Starting Adabas Review](#) for information about initializing and verifying the installation of the online portion of Adabas Review.

## Install Adabas Review under CICS

---

### ▶ To install the CICS components of Adabas Review

- 1 Link the Adabas command-level link routine for CICS, LNKOLSC, by modifying the macro ADAGSET.A to specify

```
LRINFO EQU 256, LUSAVE=72
```

then use the sample job ASMLCC.X to preprocess, assemble, and link it.

- 2 Restart Adabas and CICS.
- 3 Initialize and test Adabas Review.

Refer to section [Starting Adabas Review](#) for more information about initializing and verifying the installation of the online portion of Adabas Review.



# 5 Starting Adabas Review

---

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- Verifying the Installation ..... 33

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 SYSREVDDB.



**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`.

This 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
```



**Note:** The Adabas Review default user profile is delivered with the HUB / DBID set to zero. When running Adabas Review in local mode, this setting causes the initial HUB / DBID to be set to the same value as the LFILE. However, when starting Adabas Review in hub mode, you need to modify the default user profile and reset the zero to the `ADARUN REVIEW=hubid value`. You can also manually override the default user profile HUB / DBID value by issuing `HUB=hubid` from the command line after you log on to Adabas Review.



- 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 Review data file

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

```

09:34:30          *****  R E V I E W  *****          2003-03-10
                               Main Menu

      +-----+
      |               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: ____
|-----+
|
| REVO0001 - 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:

```

14:36:22          ***** R E V I E W *****          2003-03-10
                    Main Menu
|
|-----+
|-----+
|           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 SVC and version number, and press ENTER.

Based on the information you provide, Review creates the default target definition and displays a message.

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

```

14:37:46          ***** R E V I E W *****          2003-03-10
                    Initialization Process

    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 Review

- 1 Access Natural as you normally do.
- 2 At the NEXT prompt, log on to the library SYSREVDDB (type LOGON SYSREVDDB).



**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:

### Under Com-plete

#### **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 was not set correctly in the link routine.

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

#### **ADAPRM IS MISSING FROM THE PARAMETER LIST**

**Explanation** The Natural ADAPRM area was not passed in the parameter list for the Adabas call. The value ADAPRM=ON was not set correctly in the parameter module (NATPARM) 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 was not set correctly in the Adabas/Com-plete link routine.

2) The Natural ADAPRM area was not passed in the parameter list for the Adabas call. The value ADAPRM=ON was not set correctly in the parameter module (NATPARM) 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/Com-plete 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 ADABAS REVIEW LINK ROUTINE IS NOT CORRECTLY INSTALLED**

**Explanation** The Adabas Review link routine exit is not installed in the copy of the 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 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 described in section *Initializing the Adabas Review Data File* to correctly initialize the repository file.

**Under CICS**

**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 was not set correctly in the Adabas/CICS 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/CICS link routine.

**ADAPRM IS MISSING FROM THE PARAMETER LIST**

**Explanation** The Natural ADAPRM area was not passed in the parameter list for the Adabas call. The value ADAPRM=ON was not set correctly in the parameter module (NATPARM) 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 was not set correctly in the Adabas/CICS link routine.

2) The Natural ADAPRM area was not passed in the parameter list for the Adabas call. The value ADAPRM=ON was not set correctly in the parameter module (NATPARM) 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 CICS 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 ADABAS REVIEW LINK ROUTINE IS NOT CORRECTLY INSTALLED**

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

**Action** Use the procedure in the section *Installation (Phase 2)* to correctly install the Adabas Review link routine exit in the Adabas/CICS 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 described in section *Initializing the Adabas Review Data File* to correctly initialize the repository file.

---



# 6 Operations

---

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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:

## Assigning Logical Units

Adabas Review uses the following logical units (SYS numbers):

SYSnnn	File Name	Explanation
SYS005	RVUPARM	Parameter file (primarily used in batch mode)
SYS006	RVUEXI	Parameter file
SYS006	RVUSEQ	Command log input (batch mode only)
SYS007	RVUAUT1	Autostart parameter file 1
SYS007	RVUAUT2	Autostart parameter file 2
SYS007	RVUFLD	User-defined fields
SYS008	RVUALT	Alternate history sequential dataset
SYS019	RVUEXP	Printer for RVUEXI parameters
SYS020	RVUPRT0	Printer 0 (Review statistics)
SYS021	RVUPRT1	Printer 1 (Review reports)
SYS022-SYS029	RVUPRTn	Printers 2-9 (Review reports)
SYS031	RVUCOP1	Copy file 1 output
SYS032-SYS039	RVUCOPn	Copy files 2-9 output
SYS041	RVUCARD	GENCARD output

Any of these logical units may be changed if they conflict with logical units already in use.

### ► To change logical unit numbers used by Review

- 1 Edit the supplied source member RAOSLUBS.A in the Review library.

This member is self-documenting.

- 2 Make the necessary changes.
- 3 Assemble and link RAOSLUBS.A using your site-specific JCS.

## Processing ABENDs



**Note:** This section applies only to Adabas Review in local mode.

If Adabas Review processing terminates abnormally (ABENDs) in RAOSLOCL, the Adabas Review STXIT routine 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.

If you need help resolving the ABEND, contact your Software AG technical support representative with the printed information.

### 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 example sequences of console messages provided in this section are 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



**Note:** This section applies only to Adabas Review in local mode.

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

For VSE/ESA, the following statements are added to the Adabas start-up job stream during Adabas Review installation:



**Note:** The logical units shown in the example below may be reassigned if there are conflicts with your site-specific logical units. Refer to the section [Assigning Logical Units](#) for more information.

```
// ASSGN SYS005,IGN                RVUPARM - batch parameters
// ASSGN SYS007,DISK,VOL=vvvvvv,SHR  RVUAUT1, RVUAUT2
// ASSGN SYS008,DISK,VOL=vvvvvv,SHR  RVUALT - alt history file
// ASSGN SYS020,SYSLST              RVUPRT0 - printer
// ASSGN SYS021,SYSLST              RVUPRT1 - printer
// ASSGN SYS022,SYSLST              RVUPRT2 - printer
// ASSGN SYS023,SYSLST              RVUPRT3 - printer
// ASSGN SYS041,DISK,VOL=vvvvvv,SHR  RVUCARD - GENCARD
// ASSGN SYS006, DISK,VOL=vvvvvv,SHR  RVUEXI - operating env parameters
// ASSGN SYS019,SYSLST              RVUEXP - EXI parameters printer
*
// DLBL RVUAUT1, 'REVvrs.AUT01',0
// EXTENT SYS007, vvvvvv,1,0, nnnn,5
// DLBL RVUAUT2, 'REVvrs.AUT02',0
// EXTENT SYS007, vvvvvv,1,0, nnnn,5
*
// DLBL RVUFLD, 'REVvrs.USER.FIELDS',0
// EXTENT SYS007, vvvvvv
*
```

```
// DLBL RVUCARD, 'REVvrs.CARD.FILE', 0
// EXTENT SYS041, vvvvvvv, 1, 0, nnnn, 5
*
// DLBL RVUALT, 'REVvrs.ALT.FILE', 0
// EXTENT SYS008, vvvvvvv, 1, 0, nnnn, 30
*
// DLBL RVUEXI, 'REVvrs.EXI.PARAMETERS', 0
// EXTENT SYS006, vvvvvvv, 1, 0, nnnn, 5
```

where *vvvvvv* is the volume serial number of the target disk, *nnnn* is the relative track number, and *vrs* is the version, revision, and system maintenance level of Adabas Review.

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 Used by Adabas Review*.

## Files Used by Adabas Review

---

### 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 VSE/ESA, Adabas Review allows each report to have up to 99 command log files, and writes to these files in sequential order.

DLBL, EXTENT, and ASSGN statements must be added to the JCS 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 datasets for these command log files are created when they are opened.

Refer to the section *Command Logging Considerations* 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 job control statement can identify an alternate sequential file to which historical data may be written when it cannot be written to the Adabas Review repository.

- In hub mode, the Adabas Review hub startup JCS contains a RVUALT statement.
- In local mode, the Adabas startup JCS must be modified to include a RVUALT statement during the Adabas Review installation procedure.

RVUALT datasets must be allocated:

- In hub mode, a separate RVUALT dataset must be allocated for each Adabas Review hub.
- In local mode, if Adabas Review is installed on multiple databases, an RVUALT dataset must be allocated for each database.

The RVUALT history file is allocated using the job DBFILES.

Adabas Review receives a response code 148 (Adabas not active) and writes the data to the file specified by the RVUALT job control statement (if it has been assigned in the job stream) in situations where the Adabas Review repository is

- unavailable (in hub mode).
- on the same database that is being monitored (in local mode). The response code is returned when the database is brought down and Adabas Review tries to write the historical data.

The next time the Adabas Review hub is started (in local mode, 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 VSE/ESA, this file is created by the installation job DBFILES.X.

## RVUCARD Dataset for the GENCARD Command

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

The command requires the user to supply DLBL, EXTENT, and ASSGN statements, and the generated statements are written to the corresponding file.

## RVUEXI Parameter File

RVUEXI is a parameter file that contains parameters to control the Adabas Review operating environment. The Adabas 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 by assigning SYS005 to IGN. 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.



**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 Review hub (in local mode, to the Adabas) start-up job control (JCS).

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.

## Command Logging Considerations

---

This section discusses administrative considerations for Adabas Review command logging.

### Command Logging Information Flow



**Note:** This section applies only to Adabas Review in local mode.

Command log information is passed from Adabas to Adabas Review. Under some conditions, information is returned to Adabas. This section explains the flow of information between Adabas Review and Adabas, and the parameters required to accomplish this.

1. Adabas passes command logs to Adabas Review.

All Adabas command logging information is passed to Adabas Review.

2. The 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 job control statements to the Adabas Review hub (in local mode, Adabas) start-up JCS.

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 job control statement in the Adabas Review hub (in local mode, Adabas) start-up JCS.

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 these parameters

- 1 At the Natural NEXT prompt, type `LOGON SYSREVDDB` 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 Adabas Review.

### CONFIGDB File Parameter Description

CONFIGDB, which contains Adabas Review parameters, is saved in the Natural library SYSREVDDB.

Parameter	Possible Values	Default
CURSOR-POSITION	<code>BOT</code>   <code>TOP</code>	<code>BOT</code>

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	<code>NAPARM DC=value</code>	<code>.</code>

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	<u>Y</u> ES   <u>N</u> O	<u>Y</u> ES

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	<u>Y</u> ES   <u>N</u> O	<u>N</u> O

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

Parameter	Possible Values	Default
REVIEWDB-UEX	<i>name</i>	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-MAXX` must be 4 or greater for VSE/ESA.

Parameter	Possible Values	Default
OPEN-DBID	<u>Y</u> ES   <u>N</u> O	<u>N</u> O

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

## User Exit 5 (Adabas Review Hub Event Handler)

User exit 5 is called by the Adabas nucleus when an *event* occurs with the Adabas Review hub. An event is defined as

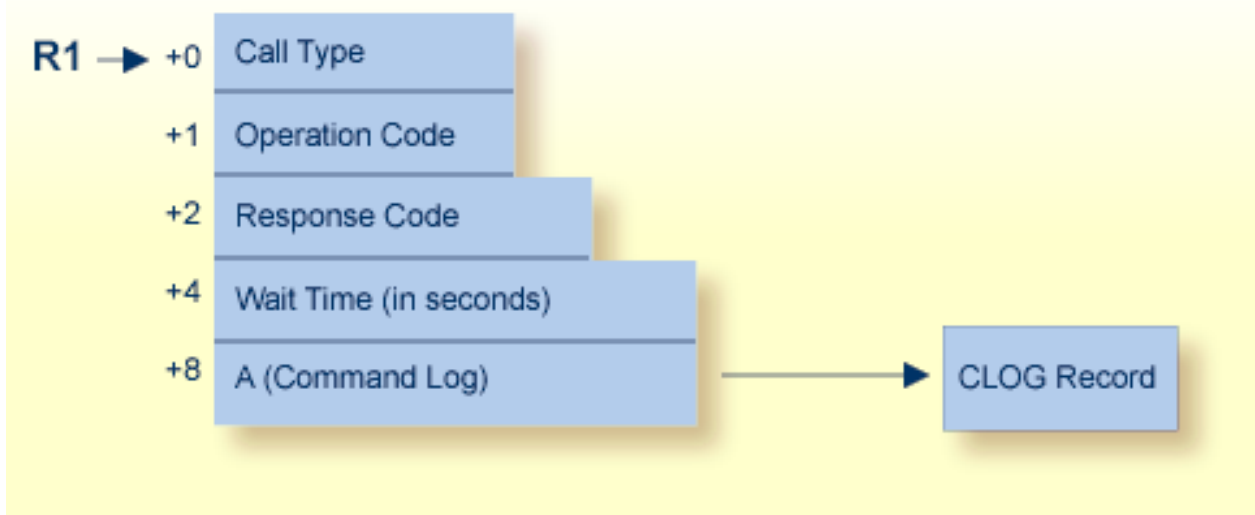
- a connection made with the Adabas Review hub during Adabas session open;
- a connection broken with the Adabas Review hub during Adabas session close; or
- a nonzero return code received from the send operation for a command log record.

The exit is invoked with `AMODE=31` and should return control in the same state.

The exit is required to process logging errors. It determines how the failure is handled. The record that was not logged and the response code received from the Adabas Review hub logging request are provided to assist in making the determination.

### Input Parameters

On entry, the register 1 points to the following parameter list:



Parameter	Header						
0(R1)	Exit call indication. The value of this byte can be:						
	<table border="1"> <tr> <td>O</td> <td>connection with Adabas Review hub opened;</td> </tr> <tr> <td>C</td> <td>connection with Adabas Review hub closed; or</td> </tr> <tr> <td>L</td> <td>sending logging error to Adabas Review hub.</td> </tr> </table>	O	connection with Adabas Review hub opened;	C	connection with Adabas Review hub closed; or	L	sending logging error to Adabas Review hub.
O	connection with Adabas Review hub opened;						
C	connection with Adabas Review hub closed; or						
L	sending logging error to Adabas Review hub.						
1(R1)	Action to handle a logging error (ignored for open and close). The exit must provide one of the following values for this field in the parameter list for a logging error:						
	<table border="1"> <tr> <td>W</td> <td>wait a specified time and then retry;</td> </tr> <tr> <td>R</td> <td>retry logging operation immediately; or</td> </tr> <tr> <td>I</td> <td>ignore the logging failure and continue without consequence.</td> </tr> </table>	W	wait a specified time and then retry;	R	retry logging operation immediately; or	I	ignore the logging failure and continue without consequence.
W	wait a specified time and then retry;						
R	retry logging operation immediately; or						
I	ignore the logging failure and continue without consequence.						
2(R1)	Response code for logging errors. This response code is the same as the Adabas response code found in the <i>Adabas Messages and Codes</i> documentation.						
4(R1)	Fullword where the exit must provide a wait time (in seconds) for the logging failures that are to be retried after waiting.						
8(R1)	Address of the command log record that the Adabas nucleus was attempting to send to the Adabas Review hub.						

### Other Register Values at Entry

R13	save area of calling Adabas nucleus routine
R14	return address in Adabas nucleus
R15	entry point address for exit

### Output Parameters

- For logging errors, the exit is required to set a value in the 'operation' field. If the wait value (W) is chosen, the exit is also required to provide a non-zero time value.
- Register 15 should be set to zero. All other registers should be returned intact.

## 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 <i>not</i> 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).



# 7 ADARUN Parameters

---

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The ADARUN control statement defines and starts the Adabas operating environment. The ADARUN control statement also starts Adabas utilities.

The ADARUN parameters described in this section of the documentation apply to Adabas Review.

This chapter covers the following topics:

## ADARUN Functions

---

ADARUN performs the following functions:

- Loads the ADAIOR module, which performs all database I/O and other operating-system-dependent functions.
- Interprets the ADARUN parameter statements; then loads and modifies the appropriate Adabas nucleus or utility modules according to the ADARUN parameter settings.
- Transfers control to Adabas.

The ADARUN statement, normally a series of entries each specifying one or more ADARUN parameter settings, is specified in the VSE CARD dataset. For more specific job information, refer to the appropriate section of this documentation.

## ADARUN Parameter Syntax

---

The syntax for the ADARUN statement and parameters is:

```
ADARUN parameter=value,...
```

where *parameter=value* is one or more of the ADARUN parameters described in this section.

Any number of blanks is permitted between "ADARUN" and the first parameter, but no blanks are permitted within the *parameter=value* string. Commas (,) must be used as separators. A blank following a *parameter=value* entry indicates the end of the statement.

The literal "ADARUN" must be entered in positions 1-6 of each ADARUN statement. All *parameter=value* entries must end before position 73. Any *parameter=value* entries that would extend beyond position 72 must be coded on a new statement as shown below. The comma following the last *parameter=value* entry of a statement is optional, and is not interpreted as a continuation character. Positions 73-80 are ignored. An asterisk (\*) in position 1 indicates a user comment line.

The following example summarizes the ADARUN statement format. The first statement cannot continue beyond position 72. The second statement represents a continuation of the first statement. All ADARUN continuation statements have the same format and restrictions as the first statement.

Positions 1-6	Positions 8-72
"ADARUN"	<i>parameter=value,parameter=value,...</i>
"ADARUN"	<i>parameter=value,...</i>

The ADARUN parameters are summarized in the following table, and described in detail in the section following the table.

Unless noted otherwise, each parameter has a default value that ADARUN uses if the parameter is not specified.

Some parameter names can be abbreviated. The minimum acceptable abbreviation for a given parameter is shown in the following table by the underlined part of the parameter name. Parameter names shown without underlining cannot be abbreviated.

## ADARUN Parameters

### PROGRAM: Program to Be Executed

Parameter	Use	Possible Values	Default
<u>PRO</u> GRAM	Specify the program to be executed.	ADANUC   ADAREV	USER

This parameter specifies the program to execute: the Adabas nucleus (ADANUC) for the interface installation or Adabas Review (ADAREV) for the hub installation.

- For the interface (client) installation, specify PROGRAM=ADANUC to start the Adabas nucleus that will log to Adabas Review hub 27:

```
ADARUN PROGRAM=ADANUC,REVIEW=27
```


See the *Adabas Documentation* for more information about executing an Adabas nucleus.

- For the hub (server) installation, specify PROGRAM=ADAREV to start the Adabas Review hub 27:

```
ADARUN PROGRAM=ADAREV,REVIEW=27
```

**REVIEW: Adabas Review Hub ID**

Parameter	Use	Possible Values	Default
REVIEW	Enable Adabas Review in local or hub mode specifying the hub ID, if applicable.	NO   LOCAL   dbid	NO

 **Note:** REVIEW replaces the ADARUN parameter REVIEWHUBID introduced in Adabas version 6; however, REVIEWHUBID remains a synonym for REVIEW.

REVIEW controls the use of the Adabas Review product:

Value	Meaning
NO	The default setting. Adabas Review is not started.
LOCAL	Adabas Review is started in local mode running in the Adabas address space as an extension of ADALOG.  <b>Note:</b> Adabas Review no longer runs as a user exit 4.
dbid	Adabas Review is started in hub mode. The physical database ID that you specify for the hub identifies <ul style="list-style-type: none"> <li>■ the hub (server) itself (with PROGRAM=ADAREV) that is being started; or</li> <li>■ from an Adabas nucleus (client), the hub that is the target for Adabas Review processing for that nucleus (with PROGRAM=ADANUC).</li> </ul>

 **Note:** Adabas Review version 4.3 supports 2-byte DBIDs for databases being monitored and for the hub ID itself.

**Example**

For the Adabas Review hub (server) installation, start hub 202.

```
ADARUN PROGRAM=ADAREV,REVIEW=202
```

For the Adabas Review (client) installation, start the Adabas nucleus that will log to Adabas Review hub 202.

```
ADARUN PROGRAM=ADANUC,REVIEW=202
```

## CT: Command Timeout Limit

When you are running Adabas Review in hub mode, Software AG recommends that you set the ADARUN CT parameter as low as possible.

Parameter	Use	Minimum	Maximum	Default
CT	Set the maximum time for interregion communication of results from Adabas to user.	1	16 777 215	60

The maximum number of seconds (more precisely, units of 1.048576 seconds) that can elapse from the time an Adabas command has been completed until the results are returned to the user through the interregion communication (operating-system-dependent).

This parameter is used to prevent a command queue element and attached buffer from being held for a long period of time for a user who has terminated abnormally.

Possible causes of a command timeout are:

- User region that is swapped-out or cannot be dispatched;
- User cancelled;
- Low priority of user in high activity system.

If the CT limit is exceeded:

- a BT command will be executed (if applicable and necessary);
- the command queue element and attached buffer will be released;
- a message ADAM93 is printed; and
- if the user has not terminated, response code 254 is returned to the user program.



**Note:** This parameter should not be confused with the non-activity (TNA, TNAE, TNAX) and transaction time limit (TT) parameters, which are based on user activity.

### Example

Permit about 5 seconds to obtain a result through interregion communication.

```
ADARUN PROG=ADAREV,CT=5
```

**FORCE: Allow Database ID Table Entry Overwrite**

Parameter	Use	Possible Values	Default
FORCE	Specify whether an Adabas Review hub can overwrite an existing ID table entry.	YES   NO	NO

A hub is not allowed to start if an ID table entry already exists for it. When an Adabas Review hub starts up, ADARUN scans the ID table to ensure that no entry exists.

The ID table entry is derived from the Review hub ID and the job name. Normally, the ID table entry is deleted when the hub terminates.

The FORCE parameter allows the hub to overwrite the existing ID table entry and start. FORCE=YES is required when restarting a session that terminated abnormally with an ADAM98 message. In this case, the ID table still contains an active entry for the hub.

Value	Meaning
YES	The hub that is starting can overwrite an existing ID table entry.
NO	The default setting. If the ID table contains an entry for the hub that is starting, the hub is not allowed to start.

Overwriting the existing entry by specifying FORCE=YES

- prevents further communication to the overwritten entry;
- causes loss of cross-memory environment resources, which cannot be restored until the next IPL.



**Caution:** Do not use the FORCE parameter unless absolutely necessary. Ensure that no hub is active for the ID table entry being overwritten.

**Example**

If the ID table contains an active entry for Review hub 27, overwrite the entry.

```
ADARUN PROG=ADAREV, FORCE=YES, REVIEW=27
```

## NAB: Number of Attached Buffers

Parameter	Use	Minimum	Maximum	Default
NAB	Specify the number of attached buffers to be used.	0	500,000	16

An attached buffer is an internal buffer used for interregion communication. An attached buffer is required in all Adabas Review hub environments.

The Adabas Review hub allocates an attached buffer pool with a size equal to the value of NAB multiplied by 4096 bytes. You may specify as many attached buffers as fit into the available virtual storage.

In environments running in 31-bit addressing mode, the attached buffer pool space is allocated above the 16-MB line.

### Example

Run the Adabas Review hub with 10,000 attached buffers.

```
ADARUN PROG=ADAREV,NAB=10000
```

## NC: Number of Command Queue Elements

Parameter	Use	Minimum	Maximum	Default
NC	Set the maximum number of command queue elements.	20	32 767	200

The number of command queue elements to be established for the Adabas Review hub. This number determines the maximum number of command logs that may be queued and/or be in process at any one time in the Adabas Review hub.

Each command log is assigned a command queue element. The command queue element is released when the log record has been processed.

192 bytes are required for each command queue element.

### Example

Run the Adabas Review hub with a maximum of 5000 elements in the command queue.

```
ADARUN PROG=ADAREV,NC=5000
```

**SVC: Supervisory Call Number**

Parameter	Use	Possible Values	Default
<u>S</u> VC	Specify the Adabas SVC number to be used for the Adabas Review hub.	see text	45

The SVC number is specified as an integer. It must correspond to the number used for the Adabas SVC at your installation.

If the SVC parameter is not specified, the default value is taken from the Adalink being used. The Adalink is delivered with the value 45.

The Adabas SVC is used to perform various Adabas internal functions under VSE/ESA. It is also used to connect the Adabas Review hub to the client Adabas nuclei.

For VSE/ESA, any free SVC value can be used. See the *Adabas Installation Documentation (VSE/ESA)* for information about finding free VSE/ESA Adabas SVC values.

**Example**

Execute an Adabas Review hub under VSE/ESA using SVC 46 for the Adabas SVC.

```
ADARUN PROG=ADAREV ,SVC=46
```



# 8 Operator Commands

---

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**Note:** The commands described in this section of the documentation are used only in hub mode.

The operator commands in this section of the documentation are used to control Adabas Review (ADAREV). They perform the following general types of operations:

- Terminate an Adabas or user session;
- Display nucleus or utility information;
- Log commands into CLOG;
- Change Adabas operating parameters or conditions.

This chapter covers the following topics:

## Entering Operator Commands

---

### ▶ To enter ADAREV operator commands in VSE/ESA environments

- 1 Enter an MSG command for the VSE/ESA partition in which Adabas is executing (for example, MSG F*n*).

Adabas responds when ready for communication with Adabas message ADAI29. In cases where the commands `ADAEND` and `CANCEL` cause Adabas to end the nucleus session, no outstanding reply is presented so that an orderly shutdown can occur without the need for operator intervention.

- 2 Enter the desired Adabas operator command or commands.

More than one command can be entered in a session. You can also enter a command followed directly by a slash (/) to end any further operator communications until the next MSG command by VSE/ESA.

- 3 When all desired commands have been entered, close the operator communication session by entering a null command (EOB).
- 4 To enter any more commands after the session is closed, repeat this entire procedure.

## Operator Command Overview

The remainder of this section of the documentation describes the commands that an Adabas Review operator can enter from the console.

### ADAEND

Used to terminate an ADAREV session normally; the Review nucleus is terminated normally. No new monitoring commands are accepted and all currently queued requests are dropped.

### CANCEL

Used to terminate ADAREV immediately; the Review nucleus is abnormally terminated and the job aborts with user completion code 253.

### DCLIENT

```
DCLIENT={dbid | ALL}
```

Displays information on the specified client or ALL clients. The DCLIENT displays the number of clients currently registered with the hub plus the individual status of each client, including the client's DBID, time of last activity, whether the client has any active reports and if buffers are required from the client, the number of reports (and of these, how many reports require buffer information), and the total number of monitoring data records received from the client. The following is an example of the message output:

```
REVH13 hub-id 001 CLIENT(S) LAST-ACT RPT BUF PRS WBUF LOG-RECORDS
REVH13 hub-id 196 03:22:48 Y N 003 000 10,323
```

### DCQ

Used to display the entire list of queued requests. The DCQ displays the sequence number, client's job name, client's user ID, request code, and status flags for each queued request.



**Note:** If a large value was set for NC (as is recommended), the DCQ request may incur delays in the Review hub processing if a large number of queue elements must be displayed. Also, the display on the operator console may fill the console's buffers causing further system delays.

The following is an example of the message output:

```
AREV07 hub-id 0000000013 NEXT EXPECTED SEQUENCE NUMBER
AREV07 hub-id 0000000011 ADASMP ARVU D (C1D9E5E400C40000) PC 2800
AREV07 hub-id 0000000012 ADASMP ARVU D (C1D9E5E400C40000) PC 2800
```

### DNC

Used to display the number of queued requests currently in the command queue.

### STARTCLIENT

```
STARTCLIENT={dbid | ALL}
```

Used to initiate a change order command to the specified client or "ALL" clients informing the client(s) to begin sending monitoring data to the hub. The change order is only sent to registered clients (clients that appear on the DCLIENT operator command display).



**Note:** A change order changes a client's operation only if the monitoring status has been changed. This occurs only in cases where a previous STOPCLIENT operator command had been issued.

### STOPCLIENT

```
STOPCLIENT={dbid | ALL}
```

Initiate a change order command to the specified client or ALL clients informing the client(s) to stop sending monitoring data. The change order is only sent to registered clients (clients that appear on the DCLIENT operator command display).

## Adabas Operator Commands

The following operator commands can be entered to monitor and control Adabas nucleus operation.

### ADAEND

Terminates Adabas session normally. No new users are accepted after this command has been issued. ET logic updating is continued until the end of the current logical transaction for each user. After all activity has been completed as described above, the Adabas session is terminated.

**CANCEL**

Terminates Adabas session immediately. All command processing is immediately suspended. A pending autorestart is in effect, which in turn causes the autorestart routine to be executed during the initialization of the next Adabas session.



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