

Adabas Review

Installation and Operations for z/OS

Version 4.4.1

June 2008

This document applies to Adabas Review Version 4.4.1 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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Table of Contents

1 Installation and Operations for z/OS	1
2 Conventions	3
3 Preparing For the Installation	5
Prerequisites	6
The Adabas Review Installation Tape	7
Installation Overview	9
4 Installation: Phase 1	11
Copy the Tape Contents to Disk	12
Install Adabas Review under Natural	13
Install the Adabas Review Repository	15
Install Adabas Review under Adabas	16
Install the Adabas Review Hub	19
Optional Installation Procedures	20
5 Installation: Phase 2	21
Install Adabas Review under Complete	22
Install Adabas Review under CICS	23
Install Adabas Review under Batch/TSO	24
Install Adabas Review under IMS/DC	26
6 Starting Adabas Review	29
Starting Adabas Review for the First Time	30
Accessing Adabas Review	34
Verifying the Installation	38
7 Operations	45
Processing Abends	46
Adding Adabas Startup Statements at Installation	47
Files Used by Adabas Review	48
Editing the RVUEX1 Parameter File	52
Command Logging Considerations	53
Modifying Configuration Parameters	56
User Exit 5 -- Adabas Review Hub Event Handler	58
Review Natural User Exits	60
8 ADARUN Parameters for Adabas Review in z/OS	61
ADARUN Parameter Syntax	62
PROGRAM : Program to Run	63
REVIEW : Adabas Review Control	64
CT : Command Timeout Limit	65
FORCE : Allow Nucleus Database ID or Review Hub Table Entry Overwrite	66
LOCAL : Local Nucleus or Adabas Review Hub	67
NAB : Number of Attached Buffers	68
NC : Number of Command Queue Elements	69
REVFILTER : Review Record Filtering Control	70
REVLOGBMAX: Logged Buffer Size Limit for Review	70
REVLOGMAX: Total Logged Buffer Size Limit for a Review Command	71

SVC : SVC Number	71
9 Operator Commands (Hub Mode Only)	73
Entering Operator Commands	74
Operator Command Overview	74
Index	79

1 Installation and Operations for z/OS

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 document provides information for installing and maintaining Adabas Review in either of the following modes:

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

This document is organized as follows:

• <i>Preparing For the Installation</i>	Describes installation prerequisites, installation tape information, and provides an overview of the Adabas Review installation process for z/OS systems.
• <i>Installation Phase 1</i>	Describes the first phase of the Adabas Review installation process. Phase 1 comprises all the steps that are independent of any particular TP monitor environment.
• <i>Installation Phase 2</i>	Describes the second phase of the Adabas Review installation process. Phase 2 installs the components that are specific to the particular TP monitor in use at your site.
• <i>Starting Adabas Review</i>	Describes how to set up and get started using Adabas Review after the installation has been completed.
• <i>Operations</i>	Describes operational procedures and processes for Adabas Review.
• <i>ADARUN Parameters for Adabas Review in z/OS</i>	Describes the ADARUN parameter specific to Adabas Review in z/OS environments.
• <i>Operator Commands (Hub Mode Only)</i>	Describes the commands used to control Adabas Review in hub mode.

2 Conventions

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

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

3 Preparing For the Installation

- Prerequisites 6
- The Adabas Review Installation Tape 7
- Installation Overview 9

This chapter provides installation preparation information for Adabas Review under z/OS operating system environments. See the current version of the Adabas Review Release Notes for information about supported versions and release levels.

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

This chapter covers the following topics:

Prerequisites

- [Adabas Version Requirements](#)
- [Natural Version Requirements](#)
- [TP Monitor Support](#)

Adabas Version Requirements

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

Natural Version Requirements

This version of Adabas Review supports Natural version 4.1.4 and above.

TP Monitor Support

This version of Adabas Review supports the following TP monitors

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

The Adabas Review Installation Tape

This section describes the contents of the Adabas Review installation tape and the space requirements for each data set. Sample JCL to accomplish the transfer is also included.

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

- [Installation Tape Description](#)
- [Size of Adabas Review \(Local Mode Only\)](#)
- [Space Requirements](#)
- [Source Library Members](#)
- [Jobs Library Members](#)

Installation Tape Description

The Adabas Review version 4.4 installation tape contains the following data sets:

Data Set	Created Using...	DCB=
REVvrs.INPL	IEBGENER	(RECFM=VB,LRECL=4624,BLKSIZE=4628)
REVvrs.SYSF	IEBGENER	(RECFM=VB,LRECL=9996,BLKSIZE=1000)
REVvrs.SRCE	IEBCOPY	(RECFM=FB,LRECL=80,BLKSIZE=23440)
REVvrs.JOBS	IEBCOPY	(RECFM=FB,LRECL=80,BLKSIZE=23440)
REVvrs.LOAD	IEBCOPY	(RECFM=U,BLKSIZE=6447)
REVvrs.ZAPS	IEBCOPY	(RECFM=FB,LRECL=80,BLKSIZE=3120)

Size of Adabas Review (Local Mode Only)

The REGION parameter for the Adabas nucleus job step may need to be increased to accommodate Adabas Review. An increase of 1 megabyte is normal.

Space Requirements

The space requirements for each data set on the installation tape are given in the following table:

Data Set Type	Directory Blocks	Cylinders (3390)
INPL	---	8
SYSF	---	1
SOURCE	10	1
JOBS	10	1
LOAD	10	1

In addition, the alternate history file for Adabas Review and the CICS-dependent load library for CICS installations require additional space as follows:

Data Set Type	Directory Blocks	Cylinders (3390)
Alternate history file	---	2
CICS-dependent load library	5	1

Source Library Members

Source library members for Adabas Review are as follows:

Member	Description
AUT1PARAM	Sample startup parameters for Adabas Review
AUT2PARAM	Sample startup parameters for Adabas Review
CLEXPRT1	Macro used in the report user exit RPTEXTIT
DTLEXIT	Sample detail report user exit for writing SMF records
LOGUEXIT	Sample Assembler source code for an Adabas Review command logging user exit
REVCOST	Sample Adabas Review parameters used to produce an Adabas cost accounting report
REVFDT	FDT control cards for the Adabas Review repository
RVUCARD	Sample parameters for running a batch job
RVUEX1	Sample operating environment control parameters for Adabas Review
RVUPARM	Internal use only
SAMPUEX5	Sample user exit 5 program
SUMEXIT	Sample summary report user exit
UEX5PARAM	Adabas user exit 5 macro used for the Adabas Review hub
USRPARAM	Sample parameters for user-defined fields
ZAPOPT	Contains optional zaps for installing Review

Jobs Library Members

Jobs library members for Adabas Review are as follows:

Member	Description
BATCHRPT	Sample job to create batch reports
EXPAND1	Sample job to upgrade a version 4.1 repository to a version 4.2 repository
EXPAND2	Sample job to upgrade a version 4.2 repository to a version 4.3 repository
HISTCOMP	Sample job to compress history data from a batch Natural execution
HISTDEL	Sample job to delete history data from a batch Natural execution
HISTVIEW	Sample job to view history data from a batch Natural execution
HUBJCL	Sample job to start the Adabas Review hub (not used in local mode)
LINKLCC	For CICS installations; sample job used to link the Adabas Review link routine exit with the CICS Adabas command-level link routine; used when reporting on Natural usage in CICS
LINKLCO	For Com-plete installations; sample job used to link the Adabas Review link routine exit with the Com-plete Adabas link routine; used when reporting on Natural usage in Com-plete
LINKLNK	For TSO installations; sample job used to link the Adabas Review link routine exit with the TSO/batch Adabas link routine; used when reporting on Natural usage in TSO or batch jobs
MAKEALT	Sample JCL to create the RVUALT data set
REVCLCOP	Sample JCL to copy and set end-of-file for a sequential command log created by Adabas Review
REVIEWB	Sample JCL to process a sequential command log by the batch component of Adabas Review
REVINPL	Sample job used to INPL the Adabas Review programs and DDMs from the INPL data set to the Natural system files.
REVLOAD	Sample job used to load the Adabas Review repository file.

Installation Overview

Adabas Review is installed in two phases:

- Phase 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. Phase 2: Install TP-specific components. Separate procedures are used to install Adabas Review under each of the supported TP monitors: Com-plete; CICS; TSO or TSS; and IMS/DC.

Phase one procedures are described in *Installation: Phase 1*; phase two procedures in *Installation: Phase 2*.

4 Installation: Phase 1

- Copy the Tape Contents to Disk 12
- Install Adabas Review under Natural 13
- Install the Adabas Review Repository 15
- Install Adabas Review under Adabas 16
- Install the Adabas Review Hub 19
- Optional Installation Procedures 20

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:

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](#)

Copy the Tape Contents to Disk

If you are using SMA, refer to the System Maintenance Aid documentation, included in the current edition of the Natural documentation CD.

If you are not using SMA, use the following steps to download all product data sets from tape to disc.

- Copy data set COPY.JOB from tape to disk
- Modify COPY.J
- Submit COPY.JOB

Copy data set COPY.JOB from tape to disk

The data set COPY.JOB (Label 2) contains the JCL to unload all other existing data sets from tape to disk. To unload COPY.JOB, use the following sample JCL:

```
//SAGTAPE JOB SAG,CLASS=1,MSGCLASS=X
//* -----
//COPY      EXEC PGM=IEBGNER
//SYSUT1    DD DSN=COPY.JOB,
//          DISP=(OLD,PASS),
//          UNIT=(CASS,,DEFER),
//          VOL=(,RETAIN,SER=tape-volume),
//          LABEL=(2,SL)
//SYSUT2    DD DSN=hlq.COPY.JOB,
//          DISP=(NEW,CATLG,DELETE),
//          UNIT=3390,VOL=SER=volume,
//          SPACE=(TRK,(1,1),RLSE),
//          DCB=*.SYSUT1
//SYSPRINT DD SYSOUT=*
```



```
//SYSIN DD DUMMY
//
```

where:

hlq = valid high level qualifier

tape-volume = the tape volume name (e.g., T12345) **volume** = the desired target volume on disk.

Modify COPY.J

Modify the COPY.JOB to conform with your local naming conventions. Set the disk space parameters before submitting this job, as follows:

- Set **HILEV** to a valid high level qualifier.
- Set **LOCATION** to a storage location.
- Set **EXPDT** to a valid expiration date.

Submit COPY.JOB

Submit COPY.JOB to unload all other existing data sets from the tape to your disk.

Install Adabas Review under Natural

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

- [Step 1. INPL Adabas Review](#)
- [Step 2. Create a Natural profile using the SYSPARM facility](#)
- [Step 3. Define Adabas Review to Natural Security](#)

Step 1. 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 2. 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.
NTPRINT(1)	Review uses Natural printer 1 to generate report display programs in the Natural source area. 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 241,dbid,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

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](#)).

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 Installation for a Database](#)

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.



Caution: 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
```

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



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

Hub Mode: Client Interface Installation for a Database

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

- 1 Apply the required ZAPs.
- 2 Ensure that an unmodified 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.
- 3 Modify the Adarun parameters of the database.
 - 4 If the Adabas Adarun parameter LOGCLEX=Y is specified to write the Review specific Command Log Extension (CLEX) to the command log, the Adabas Review library must be available in the client address space. If Review modules are not available, the warning message ARVU20 is issued.
 - 5 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 3. 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 3. Start the HUBJCL job



Note: The STEPLIB needs to be APF-authorized.

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 both to local and hub mode installations.

▶ To report on Natural activity from a batch Natural job:

- Modify and relink the Adabas link routine for batch/TSO as described in *Install Adabas Review under Batch/TSO*.

5 Installation: Phase 2

- Install Adabas Review under Com-plete 22
- Install Adabas Review under CICS 23
- Install Adabas Review under Batch/TSO 24
- Install Adabas Review under IMS/DC 26

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 of the supported TP monitors:

- Com-plete
- CICS
- TSO or TSS (batch)
- IMS/DC

This chapter covers the following topics:

Install Adabas Review under Com-plete

To install the Com-plete components of Adabas Review, follow the steps in the appropriate section below.

▶ For the Adabas Version 7 Com-plete 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 JCL in jobs member LINKLCO to link RDBLXCOM to the Adabas link routine ADALCO.
- 3 Restart Adabas and Com-plete
- 4 Initialize and test Adabas Review.

▶ For the Adabas Version 8 Com-plete link routine:

- 1 Edit the LCOGBL link globals member found in the ADA_{vrs}.MVSSRCE library, setting the LGBLSET keyword:

```
REVIEW=YES
```

- 2 Assemble and link the modified LCOGBL member into a load library and make it available for the next step.
- 3 Re-link the Adabas Version 8 Com-plete link routine using sample job LREVLCO in the Review JOBS data set, replacing the LCOGBL module with the one prepared in steps 1 and 2 and including the RDBLXCOM Review module for Com-plete.

- 4 Restart Adabas and Complete.
- 5 Initialize and test Adabas Review.

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

Install Adabas Review under CICS

This section provides instructions for installing the CICS components of Adabas Review with the Adabas 7 and 8 CICS link routines.

▶ To install the CICS components of Adabas Review for use with the Adabas 7 CICS link routine:

- 1 Create a CICS-dependent load library.



Note: If you have installed Review NM, you may use the CICS-dependent load library created for the Review NM installation.

This library is used for the output of the link. The library you create will be used exclusively by Review.

- 2 Modify, assemble, and link the Adabas link routine for CICS



Note: Adabas Review requires the Adabas version 7.4 command-level link routine and CICS 3.2 and above.

Modify the ADAGSET parameter member to specify:

```
&LRINFO=256, &LUSAVE=72
```

Then assemble and link the Adabas command-level link routine.

- 3 Use the JCL in jobs member LINKLCC to link the Adabas Review 4.3 link routine exit RD-BLXCIC to the Adabas command-level link routine.
- 4 Restart Adabas and CICS.
- 5 Initialize and test Adabas Review.

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

▶ To install the CICS components of Adabas Review for use with the Adabas Version 8 CICS link routine:

- 1 Create a CICS-dependent load library.



Note: If you have installed Review NM, you may use the CICS-dependent load library created for the Review NM installation.

This library is used for the output of the link. The library you create will be used exclusively by Review.

- 2 Modify the member CICSGBL found in the ACI_{vr}s.MVSSRCE library, and set the following keywords:

```
REVIEW=YES
```

```
LUSAVE=72
```

- 3 Assemble and link-edit the CICSGBL member into the Review library defined in step 1 above. Be sure to include the Adabas Review exits in the link-edit with CICSGBL. In addition, be sure to include CICS module DFHEAI. A sample job, LREVLIC, is provided in the Review JOBS data set to assist you.
- 4 Follow the instructions in the “Installing the Version 8 CICS Link Routines” in the Adabas Installation Manual if this is the first time the CICS link routines are being installed in this CICS system.
- 5 Restart Adabas and CICS.
- 6 Initialize and test Adabas and Review.

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

Install Adabas Review under Batch/TSO

This section provides instructions for installing the TSO components of Adabas Review with the Adabas 7 and 8 TSO/batch link routines.

▶ **To install the TSO components of Adabas Review for the Adabas 7 TSO/batch link routine::**

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

```
LRVINFO EQU 256
```

Then assemble and link ADALNK.



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

- 2 Use the JCL in jobs member LINKLNK to link the Adabas Review link routine exit RDBLXMVS to the ADALNK created in step 1.



Notes:

1. If you elect to use the link routine ADALNKR, link the batch Review link routine RDBLXMVS to ADALNKR.
2. (Hub mode only) Software AG recommends that the modified ADALNK or ADALNKR 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.

- 3 Restart the TSO session and Adabas.
- 4 Initialize and test Adabas Review.

▶ **To install the TSO components of Adabas Review for the Adabas 8 TSO/batch link routine:**

- 1 Edit the LNKGBLS globals member found in the ADA_{vr}s.MVSSRCE library, setting the LGBLSET keyword:

```
REVIEW=YES
```

- 2 Assemble and link-edit the modified LNKGBLS member into a load library and make it available for the next step.
- 3 Re-link the Adabas Version 8 TSO/batch link routine using sample job LREVLNK in the Review JOBS data set, replacing the LNKGBLS module with the one prepared in steps 1 and 2 and including the RDBLXMVS Review module for TSO.



Note: If you elect to use the link routine ADALNKR, link the batch Review routine RDBLKMVS to ADALNKR using sample job LREVLNKR in the Review JOBS data set.

- 4 Restart Adabas and TSO.

- 5 Initialize and test Adabas Review.

Read *Starting Adabas Review* for information about initializing and verifying the installation of the online portion of Adabas Review.

Install Adabas Review under IMS/DC

This section provides instructions for installing the IMD/DC components of Adabas Review for the Adabas 7 and 8 IMS/DC link routines.

▶ **To install the IMS/DC components of Adabas Review for the Adabas 7 IMS/DC link routine:**

- 1 Modify the Adabas link routines for IMS/DC (ADALNI and ADALNK) to specify the following:

```
LRVINFO EQU 256
```

Then assemble and link them.

- 2 Modify and link the Natural IMS/DC interface module. Include the following in the link of the Natural IMS interface module:

- ADALNI and ADALNK, the modules created in step 1



Note: Do not link any Adabas Review link routine exits to ADALNI and ADALNK prior to this step.

- RDBLXIMS, the Adabas Review IMS/DC link routine exit



Note: The ADALNK module is to be used for Natural IMS BMP processing and must not be linked with the Adabas Review batch/TSO link routine exit RDBLXMVS before it is included in the Natural IMS interface.

- 3 Restart the IMS/DC MPP region(s) in which Natural executes.
- 4 Restart Adabas.
- 5 Initialize and test Adabas Review.

▶ To install the IMS/DC components of Adabas Review for the Adabas 8 IMS/DC link routine:

- 1 Modify the LNIGBL member found in `AIIVRS.MVSSRCE` to include the keyword:

```
REVIEW=YES
```

- 2 Assemble and link-edit the modified LNIGBL member into a load library and make it available for the next step.
- 3 Modify and link the Natural IMS/DC interface using sample job LREVLNI in the Review JOBS data set. Include the following in the link of the Natural IMS interface module:

- ADALNI and ADALNK



Note: Do not link any Adabas Review link routine exits to ADALNI and ADALNK prior to this step. Also, do not code REVIEW=YES in the LNKGBLS table linked with ADALNK for the Natural IMS module.

- RDBLXIMS, the Adabas Review IMS/DC link routine exit.

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

6 Starting Adabas Review

- Starting Adabas Review for the First Time 30
- Accessing Adabas Review 34
- Verifying the Installation 38

This chapter describes the procedures for setting up and using Adabas Review after the installation has been completed:

Starting Adabas Review for the First Time


If this is the first time you have installed Adabas Review, 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 / LOCL database ID set to zero. When running Adabas Review in local mode, the zero setting causes the initial database ID to be set to the same value as the Natural LFILE parameter value. 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 database ID 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:

```

14:45:13          A D A B A S  -  R E V I E W          YYYY-MM-DD
                   Main Menu                          LOCL=00222

Code              Description
-----
AA              Available ADABAS Nuclei
AO              ADABAS Online System
EB              Edit Buffer Pool Report
ER              Edit Report Definition
ET              Edit Target Definition
EL              Edit Pulse Report
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           Fin                               Fin

```

Initializing the Adabas Review Data File

 **Note:** If you are using a repository from version 4.3, 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 *****          YYYY-MM-DD
                          Main Menu                          LOCL=00222

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

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

```

- 2 Confirm or cancel the initialization.

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

- To confirm the initialization, enter `YES` at the prompt.
- To cancel the initialization, press `ENTER`.

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

```

14:36:22          ***** R E V I E W *****          YYYY-MM-DD
                               Main Menu                               HUB=12345

+-----+
+-----+
|               Default Target Definition               |
|                                                       |
| Please enter the appropriate SVC and Version         |
| for Adabas DBID 221:                                |
|                                                       |
|               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 *****          YYYY-MM-DD
                               Initialization Process                HUB=12345

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

```

```
REV00054 - NOW CREATING SAMPLE REPORT WHO USES SYSMAIN
REV00054 - NOW CREATING SAMPLE REPORT TRANSACTION COUNT BY JOB
REV00054 - NOW CREATING SAMPLE REPORT TRANSACTION COUNT BY JOB-NATAPPL
REV00054 - NOW CREATING SAMPLE REPORT TRANSACTION COUNT BY JOB-USER
REV00054 - NOW CREATING SAMPLE REPORT TRANSACTION COUNT BY NATURAL

REV00006 - PRESS 'ENTER' TO CONTINUE INITIALIZATION PROCESS

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


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

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

- 4 Press ENTER as requested; continue until all Adabas Review supplied reports are initialized. After all the reports are initialized, you are returned to the Review main menu.

Accessing Adabas Review

▶ To access Adabas Review:

- 1 Access Natural as you normally do.
- 2 At the NEXT prompt, log on to the library SYSREVDB (type LOGON SYSREVDB).
 **Note:** Wherever the NEXT prompt is specified, the command can also be issued from the Natural main menu command line.
- 3 At the NEXT prompt, type MENU and press ENTER to access the Review main menu:

```
14:45:13          A D A B A S - R E V I E W          YYYY-MM-DD
                   Main Menu                          LOCL=00222

Code              Description
-----
AA                Available ADABAS Nuclei
```

```
AO          ADABAS Online System
EB          Edit Buffer Pool Report
ER          Edit Report Definition
ET          Edit Target Definition
EL          Edit Pulse Report
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      Fin                                     Fin
```



Note: If you are using a repository from a previous version, 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 *****          YYYY-MM-DD
                          Main Menu                          LOCL=00222

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

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

```

- 2 Confirm or cancel the initialization.

You are prompted to confirm the DBID and FNR of the Adabas Review repository. If the DBID or FNR is 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 *****          YYYY-MM-DD
                               Main Menu                               HUB=12345

+-----+
+-----+
|               Default Target Definition               |
|   Please enter the appropriate SVC and Version       |
|   for Adabas DBID 221:                               |
|                                                       |
|               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 *****          YYYY-MM-DD
                               Initialization Process                HUB=12345

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.

Verifying the Installation

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

- [Errors That May Be Detected Under Com-plete](#)
- [Errors That May Be Detected Under TSO/Batch](#)
- [Errors That May Be Detected Under CICS](#)

Errors That May Be Detected Under Com-plete

The following errors may be detected 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 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 documentation to correctly add ADAPRM=ON to the Natural NATPARM parameter module.

USER BUFFER EXTENSION NOT LARGE ENOUGH AND**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/Com-plete link routine

Action:

Use the procedure in the installation documentation to correctly install the Adabas Review link routine exit in the Adabas/Com-plete 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 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 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 in the section *Initializing the Adabas Review Data File* to correctly initialize the repository file.

Errors That May Be Detected Under TSO/Batch

The following errors may be detected under TSO/Batch:

USER BUFFER NOT LARGE ENOUGH

Explanation:

The user buffer (UB) extension is not large enough for Adabas Review to pass data to Adabas. The parameter LRVINFO was not set correctly in the Adabas/batch link routine.

Action:

Use the procedure in the installation documentation to correctly install the Adabas Review link routine exit in the Adabas/batch 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 documentation to correctly add ADAPRM=ON to the Natural NATPARM parameter module.

USER BUFFER EXTENSION NOT LARGE ENOUGH AND

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/batch link routine.

Action:

Use the procedure in the installation documentation to correctly install the Adabas Review link routine exit in the Adabas/batch 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 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/batch link routine currently being executed.

Action:

Use the procedure in the installation documentation to correctly install the Adabas Review link routine exit in the Adabas/batch link routine.

THE ADABAS REVIEW REPOSITORY HAS NOT BEEN INITIALIZED**Explanation:**

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

Action:

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

Errors That May Be Detected Under CICS

The following errors may be detected 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 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 documentation to correctly add ADAPRM=ON to the Natural NATPARM parameter module.

USER BUFFER EXTENSION NOT LARGE ENOUGH AND ...

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 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 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 installation documentation 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 in the section *Initializing the Adabas Review Data File* to correctly initialize the repository file.

7 Operations

▪ Processing Abends	46
▪ Adding Adabas Startup Statements at Installation	47
▪ Files Used by Adabas Review	48
▪ Editing the RVUEx1 Parameter File	52
▪ Command Logging Considerations	53
▪ Modifying Configuration Parameters	56
▪ User Exit 5 -- Adabas Review Hub Event Handler	58
▪ Review Natural User Exits	60

This chapter describes operational procedures and processes for Adabas Review after it has been installed and initialized.

Processing Abends



Note: This section applies only when using Adabas Review in local mode.

If Adabas Review processing terminates abnormally (abends) in RAOSLOCL, the Adabas Review ESTAE 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](#)
- [Message to Adabas Review users](#)
- [Messages to the Console](#)

Abend Protection for Adabas

Adabas is protected from termination if Adabas Review abends. Adabas processing continues without interruption.



Note: Although Adabas is temporarily unavailable during dump processing, it continues processing as usual once the dump has completed.

Message to Adabas Review users

Users attempting to access Adabas Review following a trapped abend 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. For z/OS, the following are example sequences of console messages sent during abend processing:

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

Adding Adabas Startup Statements at Installation



Note: This section applies only when using Adabas Review in local mode.

Statements must be added to the Adabas startup 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 startup statements may be edited, or additional statements may be needed, depending upon the needs of your site. However, deleting any of these statements affects the functioning of Adabas Review and is, therefore, not recommended.

Adabas Startup Statements

The following is a listing of the statements added to the Adabas startup job during Adabas Review installation.

For z/OS, the following statements are added to the Adabas startup JCL:

```
//RVUEXI DD DISP=SHR,DSN=REVvrs.SRCE(RVUEXI)
//RVUEXP DD SYSOUT=X,LRECL=80,RECFM=FBA
//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,RECFM=FBA
//RVUPRT01 DD SYSOUT=X,LRECL=133,RECFM=FBA
//RVUPRT02 DD SYSOUT=X,LRECL=133,RECFM=FBA
//RVUPRT03 DD SYSOUT=X,LRECL=133,RECFM=FBA
//ADASNAP DD SYSOUT=X
```

, where *vrs* is the current version, revision, and system maintenance level of Adabas Review.

The Adabas startup 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

This section describes the files used by Adabas Review:

- [RVLOG01 and RVLOG02 Command Logging Files](#)
- [RVUALT History File](#)
- [RVUAUT1 and RVUAUT2 Report Definition Data Sets](#)
- [RVUCARD Data Set for the GENCARD Command](#)
- [RVUEX1 Parameter File](#)
- [RVUEXP Companion Output File](#)
- [RVUFLD User Field Parameter Data Set](#)
- [RVUPARM Dummy Data Set](#)
- [RVUPRTnn Logical Printer Files](#)

RVLOG01 and RVLOG02 Command Logging Files

RVLOG01 and RVLOG02 are the default names for the 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 data sets for a particular report must be the same size.

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

A DD statement must be added to the JCL 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 data sets for these command log files may be allocated using IEFBR14 with the following DCB attributes:

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



Note: While RECFM and DSORG cannot be altered, the combination of LRECL and BLKSIZE can be altered (for example, LRECL=27998, BLKSIZE=27994) to make better use of disk storage.

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

RVUALT data sets must be allocated:

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

The RVUALT history file is allocated using the following DCB attributes:

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

 **Caution:** Use IEBGENER to allocate the RVUALT file, since an EOF (end-of-file) must be written for the file. Allocation with IEFBR14 will not write the EOF mark. In hub mode, the sample JCL member MAKEALT will do this.

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

RVUAUT1 and RVUAUT2 Report Definition Data Sets

RVUAUT1 and RVUAUT2 are data sets 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.

The installation procedure for z/OS defines DD statements RVUAUT1 and RVUAUT2 so that they point to members of a PDS. To avoid constant compression of these data sets, the DD statements may be modified to point to sequential data sets.

RVUCARD Data Set for the GENCARD Command

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

The command requires the user to supply a DDNAME, and the generated statements are written to the corresponding file.

RVUEX1 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 Data Set

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

RVUPARM Dummy Data Set

The recommended procedure is to set RVUPARM to "dummy". 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 data set if desired, and Adabas Review will access this data set prior to accessing data sets specified by RVUAUT1 and RVUAUT2.

When RVUPARM has been "dummied", the following message is displayed:

```
REV20164 - Open failed for RVUPARM
```

In this case, the message is normal and should be ignored. The message does not occur if instead you create a RVUPARM data set that contains only an asterisk.

RVUPRTnn Logical Printer Files

The following logical printer files are used by Adabas Review:

- [RVUPRT00 for Adabas Review Statistics](#)
- [RVUPRTnn Files for Reports](#)

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) startup job control (JCL).

Assignment of reports to logical printers is as follows:

- Review statistics are written to RVUPRT00.
- Summary reports are written to RVUPRT01.
- The first detail report is written to RVUPRT02
- Additional detail reports begin at RVUPRT03 and increment the printer number for each additional report. 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 RVUEX1 Parameter File

The RVUEXI file 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.

This section covers the following topics:

- [RVUEX1 User-Specified Parameter](#)
- [RVUEX1 Timeout Parameters](#)

RVUEX1 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 eight-byte cells that should be allocated to the user ID table manager.

RVUEX1 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 when performing Adabas Review command logging.

- [Command Logging Information Flow](#)
- [Setting Up Command Logging](#)

- [Using the Command Logging User Exit](#)

Command Logging Information Flow



Note: This section applies only when using Adabas Review in local mode.

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

1. Adabas passes command logs to Adabas Review. All Adabas command logging information is passed to Adabas Review.
2. 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 data sets. Command log data sets must be allocated for reports.
2. Add job control statements to the Adabas Review hub (in local mode, Adabas) startup JCL.

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) startup JCL.

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 data sets to be defined, two statements are required with names as follows:

```
CMLOG01 and CMLOG02
```

The five-character name is referenced by the report in the command logging report option FILE. The total number of data sets 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
- REVCLCOP
- End-of-File Marker Position

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.

REVCLCOP

When a command log file is closed, the user exit starts the command log copy job. The jobs member REVCLCOP contains a sample command log copy job.

This job copies the contents of a filled command log file to another device and appends the new data to existing data. This job also reinitializes the end-of-file marker in the command log file.

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 EDIT CONFIGDB and press ENTER.
- 3 After modifying the parameters, 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 the Adabas Review configuration parameters, is saved in the Natural library SYSREVDDB.

Parameter	Possible Values	Default
CURSOR-POSITION	BOT TOP	BOT

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

Parameter	Possible Values	Default
DECIMAL-CHAR	NAT <i>char</i>	NAT

Specifies the decimal character to use when generating Review reports. The value specified overrides the value specified for the NATPARM DC parameter. If the value specified is NAT then the value specified in the NATPARM DC parameter is used. To determine the current setting of the NATPARM DC parameter, issue GLOBALS at the NEXT prompt.

Parameter	Possible Values	Default
PC-FILE	' <i>text</i> '	'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
RVBX-MESSAGE	YES NO	YES

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

Parameter	Possible Values	Default
UBAR	any valid character	

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

Parameter	Possible Values	Default
CLOSE-DBID	YES NO	NO

Specifies whether to issue a close (CL) command to the old Adabas Review database when a new database is accessed with the 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 <i>nnnn</i>	0

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

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

When specifying a value, MAXIMUM-MAXK must be 4 or greater for z/OS.

Parameter	Possible Values	Default
OPEN-DBID	YES NO	NO

Specifies whether an open (OP) command is issued to the new Adabas Review database when a new database is accessed with the 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 non-zero return code received from the send operation for a command log record.

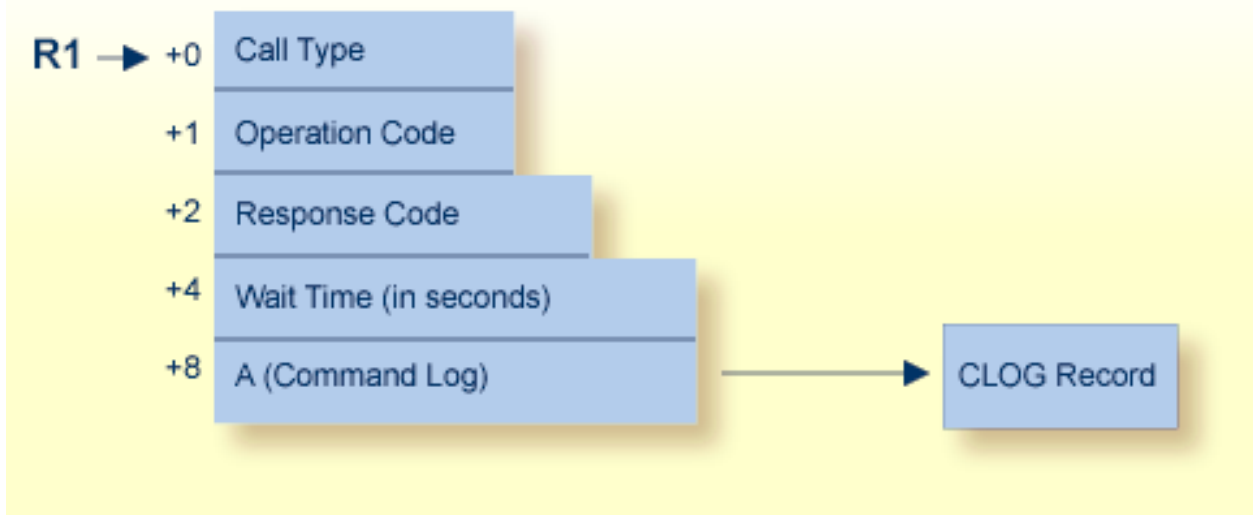
The exit is invoked with AMODE=31 and should return control in the same state.

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](#)
- [Output Parameters](#)

Input Parameters

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



Parm	Usage
0(R1)	Exit call indication. The value of this byte can be: <ul style="list-style-type: none"> ■ "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: <ul style="list-style-type: none"> ■ "W" -- wait for 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 in the Adabas Messages and Codes 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

Value	Description
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 located 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 DC systems.

- P-UEXIT1
- P-UEXIT2

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 onto another Natural application.
Remark:	Returning to a previous Natural application (using SETUP/RETURN).

8

ADARUN Parameters for Adabas Review in z/OS

▪ ADARUN Parameter Syntax	62
▪ PROGRAM : Program to Run	63
▪ REVIEW : Adabas Review Control	64
▪ CT : Command Timeout Limit	65
▪ FORCE : Allow Nucleus Database ID or Review Hub Table Entry Overwrite	66
▪ LOCAL : Local Nucleus or Adabas Review Hub	67
▪ NAB : Number of Attached Buffers	68
▪ NC : Number of Command Queue Elements	69
▪ REVFILTER : Review Record Filtering Control	70
▪ REVLOGBMAX: Logged Buffer Size Limit for Review	70
▪ REVLOGMAX: Total Logged Buffer Size Limit for a Review Command	71
▪ SVC : SVC Number	71

ADARUN performs the following functions:

- Loads the ADAIOR module, which performs all database I/O and other functions that depend on the operating system.
- 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 DDCARD data set for z/OS. For more specific job information, refer to the appropriate chapter in this manual.

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 chapter apply specifically to Adabas Review.

The following parameters apply to the Adabas nucleus and the Adabas Review Hub in z/OS environments:

ADARUN Parameter Syntax

The syntax for the ADARUN statement and parameters is:

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

In this syntax, *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.

PROGRAM : Program to Run

Parameter	Specify:	Possible Values	Default
<u>PROGRAM</u>	the program to be executed.	see table below	USER

This parameter specifies what to execute. The possible values are described in the following table:

Specify:	To start:
ADACOM	an ADACOM task (used in Adabas Cluster Services and Adabas Parallel Services environments) For more information, refer to your Adabas Cluster Services and Adabas Parallel Services documentation.
ADANUC	an Adabas nucleus For more information about executing an Adabas nucleus, read <i>Adabas Session Execution</i> , in the <i>Adabas Operations</i> documentation.
ADAREV	an Adabas Review hub. Specify this in conjunction with the ADARUN <u>REVIEW</u> parameter. For more information, refer to your Adabas Review documentation.
NETWRK	an Entire Net-Work node For more information, refer to your Entire Net-Work documentation.
RENTUSER	a user program to be run using a reentrant Adabas batch/TSO link routine. For more information, refer to your Adabas TP monitor installation documentation.
USER	a user program to be run using a non-reentrant Adabas batch/TSO link routine. For more information, read <i>Linking Applications to Adabas</i> , in your <i>Adabas Operations</i> documentation.

Specify:	To start:
<i>utility-name</i>	an Adabas utility
	Specify an Adabas utility for <i>utility-name</i> . For more information, refer to your <i>Adabas Utilities</i> documentation.

Examples

The following example starts an Adabas nucleus.

```
ADARUN PROGRAM=ADANUC
```

The following example starts an Adabas Review hub.

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

REVIEW : Adabas Review Control

Parameter	Specify . . .	Possible Values	Default
REVIEW	whether to run Adabas Review in local or hub mode specifying the hub ID, or at all.	NO LOCAL dbid	NO



Note: The parameter name REVIEWHUBID is a synonym for REVIEW, provided to ensure downward compatibility with past Adabas releases. We recommend that you use the parameter name REVIEW instead, wherever possible.

REVIEW controls the use of the Adabas Review product:

Value	Meaning
NO	The default setting. Adabas Review is not started.
LOCAL	Adabas Review 4.2 and above is started in local mode running as an extension to ADALOG. This is the only active Adabas Review setting available under z/VM.
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"> ■ the hub (server) itself (with PROGRAM=ADAREV) that is being started; or ■ from an Adabas nucleus (client), the hub that is the target for Adabas Review processing for that nucleus (with PROGRAM=ADANUC).

Dynamic Modification

The setting of the ADARUN PROG=ADANUC,REVIEW=dbid parameter can be changed dynamically using the REVIEWHUBID command from the operator console, the ADADBS OPERCOM REVIEWHUBID function, or the Modify Parameter function of Adabas Online System.

Examples

The following example starts hub 202 for the Adabas Review hub (server) installation.

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

The following example starts the Adabas nucleus that will log to Adabas Review hub 202 for the Adabas Review (client) installation.

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

CT : Command Timeout Limit

Parameter	Specify . . .	Minimum	Maximum	Default
CT	the maximum time (seconds) for interregion communication of results from Adabas to the user.	1	16777215	60

For Adabas Review, this is the maximum number of seconds (more precisely, units of 1.048576 seconds) that can elapse from the time an Adabas Review hub 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 is swapped out or cannot be dispatched;
- user is cancelled;
- user has low priority in high activity system.

If the CT limit is exceeded,

- the command queue element and attached buffer are released;
- a message ADAM93 is printed; and
- if the user has not terminated, response code 254 is returned to the user program.

Example

The following example permits about 30 seconds to obtain a result through interregion communication from the Adabas Review hub

```
ADARUN PROG=ADAREV,CT=30
```

FORCE : Allow Nucleus Database ID or Review Hub Table Entry Overwrite

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

If running Adabas Review, this indicates whether the Adabas Review hub can overwrite an existing ID table entry. When a Review hub starts up, ADARUN scans the ID table to ensure that no entry exists for the Review hub. You can use the FORCE parameter to indicate whether the Review hub can overwrite an existing ID table entry.

The ID table entry is derived from the database ID and the job name. For Adabas Review, the ID table entry is derived from the Review hub ID (REVIEW=). The ID table entry is deleted when the nucleus terminates normally.

The FORCE parameter allows the nucleus or Adabas Review hub to overwrite the existing ID table entry and access the database.



Caution: Do not use the FORCE parameter unless absolutely necessary, or the integrity of the database could be lost. Ensure that no nucleus or Review hub is active for the ID table entry being overwritten.

Value Meaning

- YES The nucleus or Adabas Review hub that is starting can overwrite an existing ID table entry. 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 nucleus or Review hub. Overwriting the existing entry by specifying FORCE=YES prevents further communication to the overwritten nucleus or hub and causes loss of cross-memory environment resources, which cannot be restored until the next IPL.
- NO (default) If the ID table contains an entry for the nucleus or Adabas Review hub that is starting, the nucleus is denied access to the database or the Review hub is not permitted to start.



Note: In an Adabas Cluster Services or Adabas Parallel Services environment, the FORCE parameter applies to the NUCID, rather than the database ID, because a cluster nucleus builds an ID table entry for the NUCID.

Examples

The following example specifies that if the ID table contains an active entry for DBID 7, overwrite the entry.

```
ADARUN PROG=ADANUC , FORCE=YES , DBID=7
```

The following example specifies that if the ID table contains an active entry for the Adabas Review hub, overwrite the entry.

```
ADARUN PROG=ADAREV , FORCE=YES , REVIEW=202
```

LOCAL : Local Nucleus or Adabas Review Hub

Parameter	Specify . . .	Possible Values	Default
<u>LOCAL</u>	whether an Adabas nucleus or Adabas Review hub is isolated and available for local use only.	YES NO	YES

Defines an isolated Adabas nucleus or Adabas Review hub that is only available locally. The nucleus or hub is unknown to Entire Net-Work. A nucleus or Adabas Review hub specifying LOCAL=YES (the default) can have the same database ID or hub ID as another database nucleus or Review hub on another network node.

Value Meaning

YES Isolates this nucleus or Adabas Review hub (that is, makes it unaddressable) from other Entire Net-Work nodes.

NO Allows the nucleuse or Adabas Review hub to receive calls from other Entire Net-Work nodes.

Example

In the following example, the Adabas nucleus is isolated and cannot be addressed by other Entire Net-Work nodes.

```
ADARUN PROG=ADANUC , LOCAL=YES
```

NAB : Number of Attached Buffers

Parameter	Specify . . .	Minimum	Maximum	Default
<u>NAB</u>	the number of attached buffers to be used.	1	varies, depending on the amount of available virtual storage	16

The NAB parameter defines the number of attached buffers to be used during the session. An attached buffer is an internal buffer used for interregion communication. It is required in all environments. Adabas 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.

Users of the Adabas Review hub should read *Storage Requirements* for more information about the space requirements of the Command Queue for Adabas Review.

For Event Replicator Server databases, set parameter NAB to a value greater than or equal to:

```
41 * 10 * the-number-of-Adabas-nuclei-sending-data-to-the-Event-Replicator-Server
```

For example, if one Adabas nucleus will be sending data to the Event Replicator Server, set the NAB parameter greater than or equal to 410 (for example NAB=420).



Note: If data is sent through Entire Net-Work from one or more Adabas nuclei to an Event Replicator Server, the Entire Net-Work NAB parameter must also be set as described above.

The NAB parameter syntax is:

```
NAB={ n | 16 }
```

Example

The following example runs the Adabas Review hub nucleus with 50 attached buffers.

```
ADARUN PROG=ADAREV,NAB=50
```


NC : Number of Command Queue Elements

Parameter	Specify . . .	Minimum	Maximum	Default
NC	the maximum number of command queue elements.	20	32767	200

The number of command queue elements (CQEs) established for the Adabas or Review hub session determines the maximum number of Adabas commands that may be queued or be in process at any one time during the session.

Each call from the Adabas nucleus is assigned a CQE. The CQE is released when the user receives the results of the command, the Adabas Review hub has processed the command, or the user has been timed out..

192 bytes are required for each CQE.

Software AG recommends that you set NC high enough to allow one command per active user for possible synchronization during execution of the online SAVE database function of the ADASAV utility.

The Adabas session statistics or Adabas Online System can be used to tune this parameter for the next session.

For more information about the space requirements of the Command Queue for Adabas Review, refer to *Storage Requirements*.

Example:

Run the Adabas nucleus with a maximum of 500 elements in the command queue.

```
ADARUN PROG=ADANUC,NC=500
```

The following example runs the Adabas Review hub nucleus with a maximum of 500 elements in the command queue.

```
ADARUN PROG=ADAREV,NC=500
```

REVFILTER : Review Record Filtering Control

Parameter	Specify . . .	Possible Values	Default
REVFILTER	whether to allow Adabas Review record filtering during the session.	YES NO	YES

REVFILTER determines whether command log record filtering may be activated. Filtering can decrease the number of command log records passed to Review for report processing.

Value Meaning

YES The default setting. Database command log records may be filtered from report processing, depending upon Review report rules.

NO All command log records will be passed to Review for report processing.

Examples

In the following example, Adabas Review's record filtering may be activated during the Adabas nucleus session.

```
ADARUN PROG=ADANUC ,REVFILTER=YES
```

In the following example, Adabas Review's record filtering will not be in effect for the Adabas nucleus session.

```
ADARUN PROG=ADANUC ,REVFILTER=NO
```

REVLOGBMX: Logged Buffer Size Limit for Review

Parameter	Use	Values	Default
REVLOGBMX	Specify the maximum allowable number of bytes of a logged buffer for Review.	Any integer ranging from 0 to 30000	5120

If a buffer is longer than this value, the logged buffer is truncated from the point at which its size exceeds the setting of the REVLOGBMX parameter. The REVLOGBMX setting affects the ADARUN LOGGING parameter specifications only for both CLOGLAYOUT=8. The minimum value (368) is the size of the length of the CLOGLAYOUT=8 basic record plus the length of the extended Adabas control block (ACBX).

Example

The following example runs the Adabas nucleus using a logged buffer size limit of 512. Individual logged buffers, such as the format buffer for an Adabas command, will be truncated if they exceed 512 bytes.

```
ADARUN PROG=ADAREV, LOGBMAX=512
```

REVLOGMAX: Total Logged Buffer Size Limit for a Review Command

Parameter	Use	Values	Default
REVLOGMAX	Specify the maximum size of all of the logged buffers allowed for an Adabas Review command.	Any integer ranging from 2000 to 32000.	16384

When the sum of sizes of the logged buffers for an Adabas Review command reaches the value of the REVLOGMAX parameter, the buffer exceeding the limit is truncated and all following buffers are omitted. The size of REVLOGMAX must at least be as large as the REVLOGBMAX + 2000 in order to accommodate the largest buffer of the Adabas command. The minimum value (2000) is the size of the length of the CLOGLAYOUT=8 basic record plus the length of the extended Adabas control block (ACBX) and the CLEX information.

The CLOGMAX setting affects the ADARUN LOGGING parameter specifications only for CLOGLAYOUT=8.

Example

The following example runs the Adabas nucleus using a command logged buffer size limit of 32000 bytes. The sum of all logged buffers for an Adabas Review command to this nucleus cannot exceed 32000 bytes.

```
ADARUN PROG=ADAREV, REVLOGMAX=32000
```

SVC : SVC Number

This parameter applies to the operating environments z/OS and z/VSE only.

Parameter	Specify . . .	Possible Values	Default
SVC	the Adabas SVC number or Adabas Review hub SVC number to be used for the session.	see text	45 (z/VSE) 249 (z/OS)

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

The Adabas SVC or Adabas Review hub SVC is used to perform various Adabas internal functions under z/OS and z/VSE.

Valid SVC values are as follows:

z/OS 200-255

z/VSE 45 is recommended; any free SVC value can be used. See the Adabas Installation documentation for information about finding free values for z/VSE.

Example

The following example runs an Adabas session under z/OS using SVC 202 for the Adabas SVC.

```
ADARUN PROG=ADANUC , SVC=202
```

The following example runs an Adabas Review hub session under z/OS using SVC 202 for the Adabas Review hub SVC.

```
ADARUN PROG=ADAREV , SVC=202
```

9 Operator Commands (Hub Mode Only)

- Entering Operator Commands 74
- Operator Command Overview 74

Note: The commands described in this chapter are used only in hub mode.

The commands in this chapter are used to control Adabas Review (ADAREV) in hub mode. The operator commands 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.

In this chapter, the commands are listed alphabetically.

Entering Operator Commands

The ADAREV operator commands are entered the same way as other Adabas operator commands.

▶ To enter operator commands in z/OS environments:

- Use the OS MODIFY (F) command as shown below:

```
F jobname , command
```

Substitute the name specified by the EXEC job control statement (usually "ADARUN") for *jobname*.

Operator Command Overview

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

- ADAEND
- CANCEL
- DCLIENT
- DCQ
- DNC
- STARTCLIENT
- STOPCLIENT

- Adabas Operator Commands

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 a user completion code of 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 Review 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 hubid 001 CLIENT(S) LAST-ACT RPT BUF PRTS WBUF LOG-RECORDS
REVH13 hubid 96 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 hubid 0000000013 NEXT EXPECTED SEQUENCE NUMBER
AREV07 hubid 0000000011 ADASMP ARVU D (C1D9E5E400C40000) PC 2800
AREV07 hubid 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 Review 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
- CANCEL

ADAEND

Terminate the 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

Terminate the 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.

Index

A

- abend processing, 46
- Adabas
 - ADAEND operator command, 78
 - CANCEL operator command, 78
 - operator commands for nucleus operation, 78
 - startup statements, adding, 47
 - supported levels, 6
- Adabas Native SQL, z/OS installation, 20
- Adabas Review
 - accessing, 34
 - displaying client information, 76
 - hub mode operator commands, 74
 - listing queued requests, 76
 - obtaining count of queued requests in command queue, 76
 - parameter to set, 64
 - starting
 - under z/OS, 29
 - starting client submission of data to hub, 77
 - stopping client submission of data to hub, 78
 - terminating immediately, 75
 - terminating normally, 75
- ADAEND operator command, 75, 78
- ADAREV
 - displaying client information, 76
 - listing queued requests, 76
 - obtaining count of queued requests in command queue, 76
 - starting client submission of data to hub, 77
 - stopping client submission of data to hub, 78
 - terminating session immediately, 75
 - terminating session normally, 75
- ADAREV operator commands, 74
- ADARUN parameters
 - Logged Buffer Size Limit for Review, 70
 - REVLOGBMX parameter, 70
 - REVLOGMAX parameter, 71
 - syntax, 62
 - Total Logged Buffer Size Limit for a Review Command, 71
 - under z/OS, 61
- attached buffer
 - parameter to set time limit for hold, 65
- attached buffers
 - number of
 - parameter to specify, 68

B

batch

- z/OS installation, 24
- buffer pool
 - attached
 - space allocation, 68

C

- CANCEL operator command, 75, 78
- CICS, z/OS installation
 - z/OS installation, 23
- client data submission
 - starting, 77
 - stopping, 78
- client information, displaying, 76
- CLOSE-DBID parameter, CONFIGDB file, 57
- Complete, z/OS installation, 22
- command logging
 - information flow, 54
 - setting up, 54
 - user exit, 55
- command queue element
 - maximum number of
 - parameter to specify, 69
 - parameter to set time limit for hold, 65
- commands
 - EDIT CONFIG, 56
 - EDIT CONFIGDB, 56
 - hub mode, 73
 - INSTALL, 30, 32
 - operator, 73
 - parameter to
 - set time limit for completion, 65
- CONFIGDB file
 - modifying, 56
 - parameter descriptions, 56
- configuration parameters, modifying, 56
- CT
 - ADARUN parameter, 65
 - CURSOR-POSITION parameter, CONFIGDB file, 56

D

- data file, initializing, 32
- DCLIENT operator command, 76
- DCQ operator command, 76
- DECIMAL-CHAR parameter, CONFIGDB file, 56
- Default Target Definition screen, 33
- displaying
 - client information, 76
 - list of queued requests, 76

number of queued requests, 76
DNC operator command, 76

E

EDIT CONFIG command, 56
EDIT CONFIGDB command, 56
entering operator commands in z/OS environments, 74
Environments supported, 6

F

FORCE
ADARUN parameter, 66

H

hub mode, operator commands, 74

I

ID Table
parameter to
allow nucleus to overwrite existing entry, 66
IMS/DC, z/OS installation
z/OS installation, 26
initialization
data file, 32
user profile system, 30
Initialization Process screen, 33
Initialization Process window, 32
INSTALL command, 30, 32
installation
adding Adabas startup statements, local mode, 47
jobs library members, 9
MSP preparation, 5
non-TP-specific components, local mode, 12
overview, 9
source library members, 8
space requirements, 8
tape description, 7
TP-specific components, 21
under Natural, 13
verifying, 38
under CICS, 41
under Com-plete, 38
under TSO/batch, 40
z/OS
Adabas Native SQL support, 20
Adabas Review repository, 15
hub, 19
hub mode, 9
local mode, 9
support for reporting from batch Natural, 20
under Adabas, 16
under CICS, 23
under Com-plete, 22
under IMS/DC, 26
z/OS preparation, 5

J

jobs library members, 9

L

LOCAL
ADARUN parameter, 67
local mode, defined, 1
LOGUEXIT, user exit to retain logged data, 55

M

Main Menu, 34
MAXIMUM-MAXK parameter, CONFIGDB file, 57
MSP, installation
preparation, 5

N

NAB
ADARUN parameter, 68
NATPARM, parameter settings, 14
Natural
NTFILE definition, 14
required parameter settings, 14
supported levels, 6
user exits, 60
z/OS installation, support for reporting from batch, 20
NC
ADARUN parameter, 69
nucleus
isolated
parameter to define as a local nucleus, 67
SVC for
parameter to specify, 71

O

OPEN-DBID parameter, CONFIGDB file, 58
operator commands
ADAEND, 75, 78
CANCEL, 75, 78
DCLIENT, 76
DCQ, 76
DNC, 76
entering in z/OS environments, 74
STARTCLIENT, 77
STOPCLIENT, 78

P

P-UEXITn, 60
PC-FILE parameter, CONFIGDB file, 56
PROGRAM
ADARUN parameter, 63

Q

queued requests
determining number of in command queue, 76
listing, 76

R

REVCLCOP, command log copy job, 55
REVFILTER

ADARUN parameter, 70
 REVIEW
 ADARUN parameter, 64
 REVIEWDB-UEx parameter, CONFIGDB file, 57
 REVLOGBMAX parameter, 70, 71
 RVBX-MESSAGE parameter, CONFIGDB file, 57
 RVLOG01 and RVLOG02, command logging files, 48
 RVUALT, alternate history file, 49
 RVUAUT1 and RVUAUT2, autostarted report definition data sets, 50
 RVUCARD, data set for GENCARD-created parameters, 50
 RVUEX1
 editing the parameters, 52
 operating environment parameter file, 50
 timeout parameters, 53
 user-specified parameters, 52
 RVUEXP, error file for RVUEX1, 51
 RVUFLD, parameter file, 51
 RVUPARM, dummy data set for compatibility, 51
 RVUPRTnn, logical printer files, 51

S

session
 SVC for
 parameter to specify, 71
 source library members, 8
 space requirements, 8
 STARTCLIENT operator command, 77
 starting Adabas Review, 29
 starting client submission of data to hub, 77
 STOPCLIENT operator command, 78
 stopping client submission of data to hub, 78
 SVC
 ADARUN parameter, 71
 System Maintenance Aid (SMA), 6

T

target, default definition window, 33
 terminating
 Adabas Review immediately, 75
 Adabas Review normally, 75
 Adabas session immediately, 78
 Adabas session normally, 78
 timeout control
 interregion communication limit
 parameter to set, 65
 TP monitors, supported for z/OS, 6
 TSO
 z/OS installation, 24

U

UBAR parameter, CONFIGDB file, 57
 UCMD-TIMEOUT parameter
 RVUEX1 operating environment, 53
 UEX5, 58
 UIDT-CELLS parameter, RVUEX1 operating environment, 52
 UIDT-TIMEOUT parameter
 RVUEX1 operating environment, 53
 user exits, 8, 58
 hub event handler, 58
 Natural, 60

user profile system, initializing, 30

Z

z/OS (see z/OS)
 entering operator commands, 74
 hub installation, 19
 installation
 Adabas Native SQL support, 20
 Adabas Review repository, 15
 preparation, 5
 support for reporting from batch Natural, 20
 under Adabas, 16
 under CICS, 23
 under Com-plete, 22
 under IMS/DC, 26
 under Natural, 13
 installation under batch/TSO, 24
 MODIFY (F) for operator commands, 74

