software AG

Adabas Review

Installation and Operations for z/VSE

Version 5.1.1

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ADABAS & NATURAL

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Installation and Operations for z/VSE

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

This part of the Adabas Review documentation provides information for installing and maintaining Adabas Review

- in local mode in the Adabas address space; or

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

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

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

1 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
v	version	**Major Version** The first digit of the product version number indicates major architecture and functionality implementation or enhancement that adds value to the product.
r	release	**Minor Version** The second digit of the version number indicates functionality addition or enhancement that adds value to the product.
s	system maintenance level	**Correction Level** Correction levels contain error corrections only, without new functionality, including documentation of all modifications and repairs. In case it is necessary to include functional changes into a correction level, an exception handling process ensures that corresponding quality assurance activities are triggered. These functional changes are documented. The main target is to avoid impacts when you install such a correction level. The third number of an Adabas version denotes the system maintenance level. On certain platforms supported by Adabas, additional levels may exist, such as update package, patch level, service pack and hot fix.

2 About this Documentation

Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
`Monospace font`	Identifies service names and locations in the format *`folder.subfolder.service`*, APIs, Java classes, methods, properties.
`Italic`	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
`Monospace font`	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
|	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the | symbol.
[ ]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [ ] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

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- Access articles, code samples, demos, and tutorials.

- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.

- Link to external websites that discuss open standards and web technology.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

3 Preparing for the Installation

This section of the documentation provides installation preparation information for Adabas Review under z/VSE operating system environments.

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

Prerequisites

For information regarding Software AG product compatibility with IBM platforms and any IBM requirements for Software AG products, please review the *Product Compatibility for IBM Platforms* web page.

Other prerequisites for Adabas Review are described in *Software AG Product Support and Requirements*, in the *Adabas Review Release Notes*.

TP Monitor Support

This version of Adabas Review supports the following TP monitors:

- Com-plete
- CICS/VSE or CICS/TS

About 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 JCS to accomplish the transfer is also included.

Refer to the *Software AG Product Delivery Report* for the volume serial number, density, media type, data set names, and data set sequence numbers for the SP level being installed.

- Copying the Tape Contents
- Installation Tape Contents
- Disk Space Requirements

- Sublibrary Members

Copying the Tape Contents

Copy the data sets from the supplied installation medium to your disk before you perform the individual installation procedure for each component to be installed.

The way you copy the data sets depends on the installation method and the medium used:

- If you use System Maintenance Aid (SMA), refer to the copy job instructions provided in the *System Maintenance Aid* documentation.

- If you are not using SMA and want to copy the data sets from CD-ROM, refer to the README.TXT file on the CD-ROM.

- If you are not using SMA and want to copy the data sets from tape, follow the instructions in this section.

This section explains how to copy the data sets `.LIBJ`, `.LIBR` and `.LICS` (if supplied) from tape to disk. All other data sets can be installed directly from the tape.

- Step 1: Copy Data Set COPYTAPE.JOB to Disk
- Step 2: Modify COPYTAPE.JOB on Your Disk
- Step 3: Submit COPYTAPE.JOB

Step 1: Copy Data Set COPYTAPE.JOB to Disk

- Modify the following sample job according to your requirements:

```
* $$ JOB JNM=LIBRCAT,CLASS=0,                                          +
* $$ DISP=D,LDEST=(*,UID),SYSID=1
* $$ LST CLASS=A,DISP=D
// JOB LIBRCAT
* ****************************************
*      STORE COPYTAPE.JOB IN LIBRARY
* ****************************************
// ASSGN SYS004,nnn
// MTC REW,SYS004
// MTC FSF,SYS004,4
ASSGN SYSIPT,SYS004
// TLBL IJSYSIN,'COPYTAPE.JOB'
// EXEC LIBR,PARM='MSHP; ACC S=lib.sublib'
/*
// MTC REW,SYS004
ASSGN SYSIPT,FEC
/*
/&
* $$ EOJ
```

where:

nnn is the tape address, and
lib.sublib is the library and sublibrary in which the data set `COPYTAPE.JOB` is to be stored.

▪ Execute the job to copy the data set `COPYTAPE.JOB` to disk.

`COPYTAPE.JOB` contains the JCL required to copy the data sets `.LIBJ`, `.LIBR` and `.LICS` from tape to disk.

Step 2: Modify COPYTAPE.JOB on Your Disk

▪ Modify `COPYTAPE.JOB` according to your requirements and set the disk space parameters as appropriate.

Step 3: Submit COPYTAPE.JOB

▪ Execute `COPYTAPE.JOB` to copy the data sets `.LIBJ`, `.LIBR` and `.LICS` to your disk.

Installation Tape Contents

The installation tape contains the following data sets:

Data Set	Created Using	Contents
REV*vrs*.INPL	NATUNLD	Adabas Review Natural objects
REV*vrs*.SYSF	ADAULD	Adabas Review repository file
REV*vrs*.VSELIBR	LIBR BACKUP	The Adabas Review sublibrary; contains relocatable objects, phases, source, and example installation jobs

Disk Space Requirements

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

Data Set Name	Cylinders (3390)
INPL	8
SYSF	1
VSELIBR	4

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

Data Set Type	Cylinders (3390)
Alternate history file	2

Sublibrary Members

The Adabas Review sublibrary members are listed below. The members are listed by type, where

- "A" indicates source (for example, Assembler user exit samples, macros, etc.)
- "X" indicates job control statements or job streams.

Members of type A are:

Member	Description
RAOSLUBS	Sample Assembler code to change the default logical units used by Adabas Review.
REVCOST	Sample Adabas Review parameters used to produce an Adabas cost accounting report.
REVUEX1	Sample user exit 1 (User field exit) program.
REVUEX5	Sample user exit 5 program.
REVUXLOG	Sample Assembler source code for an Adabas Review command logging user exit.
REVUXSUM	Sample summary report user exit.
SUMRECD	DSECT for the summary record layout data portion.
SUMRECH	DSECT for the summary record layout header portion.
SUMRECS	DSECT for the summary record layout schema portion.
UEX5PARM	Adabas user exit 5 macro used for the Adabas Review hub in REVUEX5.
ZAPOPT	Adabas Review optional zaps.

Caution: Sample user exits and programs and are not supported under any maintenance contract agreement.

Members of type X are:

Member	Description
ARCHIVE	Sample JCS to define Adabas Review to MSHP.
AREVUEX1	Sample job for assembling the REVUEX1 (User field exit) for batch.
ASMUEX1C	Sample job for assembling and linking the REVUEX1 for CICS environment (User field exit).
ASMUXLOG	Sample job for assembling and linking the REVUXLOG.
BATCHRPT	Sample job to create batch reports.
DBFILES	Create Adabas Review data sets.
EXPANDxx	Sample jobs to upgrade an Adabas Review version repository. For the details please refer to *Migration from Previous Versions* in the *Release Notes*.
HISTCOMP	Sample JCS to compress history data from a batch Natural execution.

Member	Description
HISTDEL	Sample JCS to delete history data from a batch Natural execution.
HISTVIEW	Sample JCS to view history data from a batch Natural execution.
HUBJCS	Sample JCS to start the Adabas Review hub server.
LINKREV	Sample job to relink Adabas Review after applying maintenance.
LNKLUBS	Sample JCS to assemble and link RAOSLUBS system file number assign module.
LOCJCS	Sample JCS to run Adabas Review local nucleus.
LREVLCIC	For CICS installations, sample JCS to assemble the CICSGBLS module and link it with the necessary Adabas LNK and Adabas Review exit objects.
LREVLCO	For Com-plete installations, sample JCS to assemble the LCOGBL module and link it with the necessary Adabas LNK and Adabas Review exit objects.
LREVLNK	For batch installations, sample JCS to assemble the LNKGBLS module and link it with the necessary Adabas LNK and Adabas Review exit objects.
LREVLNKR	For batch installations, sample JCS to assemble the LNKGBLS module and link it with the necessary reentrant Adabas LNK and Adabas Review exit objects.
LREVUEX1	Sample job for binding the ADALNK REVEXIT modules (RDBLX*sys*) together with the user exit REVUEX1 (User field exit).
REVCLCOP	Sample JCS to copy and set end-of-file for a sequential command log created by Adabas Review.
REVIEWB	Sample JCS to process a sequential command log by the batch component of Adabas Review.
REVINPL	Sample JCS to INPL the Adabas Review programs and DDMs from the INPL data set to the Natural system files.
REVLOAD	Sample JCS to load the Adabas Review repository file into an Adabas environment.
REVPROC	Sample job to catalog the Adabas Review standard label procedure.

⚠ **Caution:** Sample user exits and programs and are not supported under any maintenance contract agreement.

Installation Overview

Adabas Review is installed in two phases:

1. Install non-TP-specific components. All steps in this phase are identical regardless of the TP monitor in use:

   ▪ Install Adabas Review under Natural;

   ▪ Install the Adabas Review repository;

   ▪ Install Adabas Review under Adabas;

   ▪ Install the Adabas Review hub (hub mode only);

- Optional installation procedures.

2. Install TP-specific components. Separate procedures are used to install Adabas Review under each of the supported TP monitors: Com-plete and CICS.

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

4 Installation: Phase 1

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

Adabas Review is installed in two phases: this section of the documentation describes phase one, which comprises all the steps that are independent of any particular TP monitor environment.

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

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

> **Note:** Instructions for copying the tape contents to disk are provided in *Copying the Tape Contents*, elsewhere in this guide.

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 4. Make AOSASM available to the Natural Nucleus

Step 1. INPL Adabas Review

> **Note:** The entire Adabas Review application is stored in the SYSREVDB library. User profiles are stored in the SYSREVDU 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 JCS. Sample job *REVINPL.X* is provided in the Adabas Review library.

> **Note:** If you want to use Adabas Review together with Predict, your DDMs should be stored in a valid FDIC system file. For detailed information please refer to the relevant sections concerning DDMs in the *Predict* documentation and the *Natural* documentation.

Step 2. Create a Natural profile using the SYSPARM facility

≫ **To 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=64	minimum
ADAPRM=ON	required in order to for Adabas Review to report on Natural information.
NTWORK(7),AM=PC,OPEN=ACC	required for PC downloads. NTWORK is a Natural macro used to define the work file(s) to be used; AM is the access method. OPEN=ACC specifies that the work file will be opened when it is first accessed by a statement. For more information, see the Natural documentation. **Note:** Work file 7 is the default specified in the PC-FILE parameter of the CONFIGDB text member in SYSREVDB. The work file number specified in NTWORK and PC-FILE parameter must be the same.
NTPRINT(1)	Adabas Review uses Natural printer 1 to generate report display programs in the Natural source area. For more information, see the Natural documentation.
COMP	Parameters for Com-plete. Set the value for NTHSIZE greater than 2400.

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

```
NTLFILE  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, complete the following steps:**

1   Define the SYSREVDB library for the Adabas Review system and the SYSREVDU library for
the Adabas Review user profiles to Natural Security. Verify that the LIST command is allowed
in the SYSREVDU library and that the READ command is allowed for the SYSREVDB library.

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

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

```
REVIEW-ADABAS-CLOG
REVIEW-ADABAS-SYSTEM
```

Step 4. Make AOSASM available to the Natural Nucleus

> **Note:** AOSASM is delivered in the Adabas load library. If Adabas Online Services (AOS)
> are installed, AOSASM is already available.

⟫ **To make AOSASM available to the Natural nucleus**

■   For a Com-plete or CICS environment, link the correct object module with the Natural TP
nucleus.

If a split Natural nucleus is to be installed, the AOSASM module must be linked to the shared
portion of the nucleus and not to the thread portion.

Install the Adabas Review Repository

This procedure 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.

This section includes the following substeps:

⚠ **Important:** Users loading a new Adabas Review repository should run Steps 1 and 2 only and omit Step 3. Users converting the Adabas Review repository from a previous release should omit Steps 1 and 2 and run Step 3 only.

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

Before submitting the job REVLOAD.X provided in the Adabas Review sublibrary, change:

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

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

- the SVC=svc parameter of the same two ADARUN statements to reflect the number of the SVC used for the database defined in the above step; and

- the ADALOD LOAD FILE=fnr statement to reflect the number of the file that will contain the Adabas Review file.

Step 2. Load the Adabas Review repository file

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

Step 3. Convert your repository and history file

If you used the same repository file for a version of Adabas Review older than this release, Adabas Review requires that you convert your repository file and history data prior to running any new reports in this release of Adabas Review. For complete information on doing this, read *Migration from Previous Versions* , in the *Adabas Review Release Notes*.

Install Adabas Review under Adabas

To install Adabas Review under Adabas, complete the following steps:

- Step 1. Create Adabas Review-specific data sets
- Step 2. Modify the Adabas initialization parameters
- Step 3: Modify the Adabas Startup JCS
- Step 4: Define Adabas Review to MSHP

Step 1. Create Adabas Review-specific data sets

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

≫ **To create Adabas Review-specific data sets:**

1   Modify DBFILES.X by replacing

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

2   Execute the modified DBFILES.X.

Step 2. Modify the Adabas initialization parameters

For information about the relevant ADARUN parameters, read *ADARUN Parameters for Adabas Review*, in the *Adabas Review Reference Guide*.

Modify your existing Adabas ADARUN parameters to include the following:

- local mode only:

```
ADARUN REVIEW=LOCAL
```

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

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

where *hubid* is the Adabas Review hub ID and UEX5 is optional. For more information, read *REVUEX5: Adabas Review Hub Event Handler (Adabas Exit 5)* in the *Adabas Review Reference Guide*.

Step 3: Modify the Adabas Startup JCS

This section describes how to modify the Adabas startup JCS for local mode and for hub mode.

Local Mode

≫ **To modify the Adabas startup JCS for local mode installations:**

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

RVUALT Considerations

- RVUALT refers to the data set that contains the alternate history file. You may use the same data set you used for earlier versions.

- If Adabas Review is installed on multiple databases, a RVUALT data set must be allocated for each database.

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

RVUAUT1 and RVUAUT2 Considerations

- RVUAUT1 and RVUAUT2 refer to the data sets that contain the report definitions for autostarted reports.

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

  Note: In a future release of Adabas Review, RVUAUT2 will no longer be supported. RVUAUT1 only will be used for autostarted reports.

To modify the startup JCS for local mode

1. Add the following statements to the Adabas startup JCS replacing

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

  Note: In Adabas Review, each logical unit (SYS number) is assigned to a specific Adabas Review function (see *Assigning Logical Units*, elsewhere in this guide). If these logical units conflict with the assignments made in the Adabas data container procedure or the nucleus startup JCS, we recommend you change the SYS number allocation for Adabas to a number range above 50 in a copied procedure for use by the Adabas Review Local Nucleus. The currently assigned logical units are as shown below:

```
//  ASSGN SYS005,IGN                      RVUPARM - batch parameters
//  ASSGN SYS007,DISK,VOL=vvvvvv,SHR    RVUAUT1, RVUAUT2, RVUFLD
//  ASSGN SYS008,DISK,VOL=vvvvvv,SHR    RVUALT - alt history file
//  ASSGN SYS020,SYSLST              RVUPRT0 - printer
//  ASSGN SYS021,SYSLST              RVUPRT1 - printer
//  ASSGN SYS022,SYSLST              RVUPRT2 - printer
//  ASSGN SYS023,SYSLST              RVUPRT3 - printer
//  ASSGN SYS041,DISK,VOL=vvvvvv,SHR    RVUCARD - GENCARD
//  ASSGN SYS006,DISK,VOL=vvvvvv,SHR    RVUEXI - operating env parameters
//  ASSGN SYS019,SYSLST              RVUEXP - EXI parameters printer
*
//  DLBL RVUAUT1,'REVvrs.AUTO1',0
//  EXTENT SYS007,vvvvvv,1,0,nnnn,5
//  DLBL RVUAUT2,'REVvrs.AUTO2',0
//  EXTENT SYS007,vvvvvv,1,0,nnnn,5
*
//  DLBL RVUCARD,'REVvrs.CARD.FILE',0
//  EXTENT SYS041,vvvvvv,1,0,nnnn,5
*
//  DLBL RVUALT,'REVvrs.ALT.FILE',0
//  EXTENT SYS008,vvvvvv,1,0,nnnn,30
*
//  DLBL RVUEXI,'REVvrs.EXI.PARAMETERS',0
//  EXTENT SYS006,vvvvvv,1,0,nnnn,5
*
//  DLBL RVUFLD,'REVvrs.USER.FIELDS',0
//  EXTENT SYS007,vvvvvv
```

2   Add the following statements to the Adabas startup JCS, replacing

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

> **Note:** In Adabas Review, each logical unit (SYS number) is assigned to a specific Adabas Review function (see *Assigning Logical Units*, elsewhere in this guide). If these logical units conflict with the assignments made in the Adabas data container procedure or the nucleus startup JCS, we recommend you change the SYS number allocation for Adabas to a number range above 50 in a copied procedure for use by the Adabas Review Local Nucleus. The currently assigned logical units are as shown below:

```
//   ASSGN SYS005,IGN                    RVUPARM - batch parameters
//   ASSGN SYS007,DISK,VOL=vvvvvv,SHR    RVUAUT1, RVUAUT2, RVUFLD
//   ASSGN SYS008,DISK,VOL=vvvvvv,SHR     RVUALT - alt history file
//   ASSGN SYS020,SYSLST                 RVUPRT0 - printer
//   ASSGN SYS021,SYSLST                 RVUPRT1 - printer
//   ASSGN SYS022,SYSLST                 RVUPRT2 - printer
//   ASSGN SYS023,SYSLST                 RVUPRT3 - printer
//   ASSGN SYS041,DISK,VOL=vvvvvv,SHR    RVUCARD - GENCARD
//   ASSGN SYS006,DISK,VOL=vvvvvv,SHR    RVUEXI - operating env parameters
//   ASSGN SYS019,SYSLST                 RVUEXP - EXI parameters printer
*
//   DLBL RVUAUT1,'REVvrs.AUTO1',0
//   EXTENT SYS007,vvvvvv,1,0,nnnn,5
//   DLBL RVUAUT2,'REVvrs.AUTO2',0
//   EXTENT SYS007,vvvvvv,1,0,nnnn,5
*
//   DLBL RVUCARD,'REVvrs.CARD.FILE',0
//   EXTENT SYS041,vvvvvv,1,0,nnnn,5
*
//   DLBL RVUALT,'REVvrs.ALT.FILE',0
//   EXTENT SYS008,vvvvvv,1,0,nnnn,30
*
//   DLBL RVUEXI,'REVvrs.EXI.PARAMETERS',0
//   EXTENT SYS006,vvvvvv,1,0,nnnn,5
*
//   DLBL RVUFLD,'REVvrs.USER.FIELDS',0
//   EXTENT SYS007,vvvvvv
```

3   Modify the Adabas startup JCS to execute the Adabas Review procedure and add the Adabas
     Review sublibrary to the LIBDEF search chain.

Hub Mode: Interface Install

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

■   Repeat the following substeps for each database to be monitored.

     Each database to be monitored must use the same SVC as the Adabas Review hub.

     If the Adabas ADARUN parameter LOGCLEX=Y is specified to write the Adabas Review
     specific Command Log Extension (CLEX) to the command log, the Adabas Review library
     must be available in the client address space. If Adabas Review modules are not available,
     the warning message ARVU20 is issued.

Step 4: Define Adabas Review to MSHP

Maintenance fixes are distributed in MSHP format. In order to apply these maintenance fixes, Adabas Review must be defined to MSHP as a product/component using the MSHP ARCHIVE process.

Modify and run the sample job stream ARCHIVE.X in the Adabas Review sublibrary to define Adabas Review to MSHP. Make sure you have specified the Adabas Review *and the Adabas library* in your MSHP job which applies the fixes for Adabas Review. For example:

```
// LIBDEF OBJ,SEARCH=(SMALIB.REVvrs,SMALIB.ADAvrs),TEMP
```

Install the Adabas Review Hub

Complete the steps in this section to install the Adabas Review Hub.

- Step 1. Modify the sample JCS member HUBJCS.X
- Step 2. Start the HUBJCS job

Step 1. Modify the sample JCS member HUBJCS.X

≫ **When modifying the sample JCS member, be sure to:**

1   Correct any library names or file names.

2   Modify the ADARUN parameters:

- Modify the ADARUN parameter `REVIEW` to reflect the TARGET ID you wish to use for the Adabas Review hub.

- Modify the ADARUN parameter `SVC` to reflect the correct SVC number. This SVC must be the same as that used by the sending Adabas nuclei.

The ADARUN parameters supplied in the sample JCL member HUBJCS.X are the only ones recognized for setting up the hub nucleus. For information about these ADARUN parameters, read *ADARUN Parameters for Adabas Review*, in the *Adabas Review Reference Guide*.

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

3   Verify that the RVUALT DLBL statement refers to the data set that contains the alternate history file.

The RVUALT or "alternate history" file is used to contain history information if Adabas Review is unable to access the Adabas Review repository. You may use the same RVUALT data set you used for earlier versions.

Refer to section *Operations* for RVUALT guidelines.

4   Verify that the RVUAUT1 and RVUAUT2 DLBL statements refer to the data sets that contain the report definitions for autostarted reports.

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

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

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

Step 2. Start the HUBJCS job

Run the HUBJCS member you created in the previous step.

Optional Installation Procedures

Implement Support for Adabas Native SQL

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

Refer to the *Adabas Native SQL Documentation*.

Implement Support for Reporting from Batch Natural

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*, elsewhere in this guide.

5 Installation: Phase 2

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

Install Adabas Review under Com-plete

≫ **To install the Com-plete components of Adabas Review for use with the Adabas 8 Com-plete link routine:**

1   Edit the LCOGBL link globals member found in the ADA*vrs*.LIBR library, setting the REVIEW and REVREL LGBLSET keywords:

Parameter	Description	Syntax
REVHID	Specifies the preferred Adabas Review hub ID. This value can be checked during the Adabas TP monitoring installation or during the monitor activate process. If REVHID is set to zero (0), the preferred Adabas Review hub ID is dynamic. When the hub ID is dynamic, it cannot be checked during the Adabas TP monitoring installation and the call to turn on client reporting must supply the correct Adabas Review hub ID to use. If REVHID is specified, REVIEW=YES must also be specified. If REVHID is specified and REVIEW=NO is also specified, the assembly of the globals table will abort with condition code 16 and the following message is given: `REVHID requires REVIEW=YES` This parameter is not valid in VSE environments. The parameter exists in VSE environments, but should be set to "0".	`REVHID=`*`hubid`*
REVIEW	Indicates whether or not Software AG's Adabas Review performance monitor is installed and active.	`REVIEW={NO ↵` `| YES}`
REVREL	This parameter is redundant and will be dropped in a future Adabas version. Please remove any use of this parameter from your LGBLSET input. Continued use of this parameter will result in the following informational MNOTE message:	`REVREL={ }`

Parameter	Description	Syntax
	`REVREL= is redundant and is no longer required.` The assembly of the globals table is unaffected.	
RVCLNT	Indicates whether Adabas Review client reporting should be allowed. When client reporting is allowed, it can be activated by the ADARUN RVCLIENT parameter in a batch environment (ADARUN PROGRAM=USER). The default is NO. If RVCLNT=YES is specified, REVIEW=YES must also be specified. If RVCLNT=YES is specified and REVIEW=NO is also specified, the assembly of the globals table will abort with condition code 16 and the following message is given: `RVCLNT=YES requires REVIEW=YES` This parameter is not valid in VSE environments. The parameter exists in VSE environments, but should be set to "NO".	`RVCLNT={YES|NO}`

For example, the following keywords indicate that Adabas Review support should be installed and, specifically, support for Adabas Review 4.6 and later.

```
REVIEW=YES
REVREL=46
```

2 Use the JCS contained in the sublibrary member LREVLCO.X to set and assemble the LCOGBL module and link this to make the ADALCO phase with the Adabas Review link routine exit.

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

3 Restart Adabas and Com-plete and verify that the modules ADATMZ, ADALNKR, and CC-STCK are included in the LIBDEF concatenation for the Com-plete startup job.

4 Initialize and test Adabas Review.

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

Install Adabas Review under CICS

≫ **To install the CICS components of Adabas Review for use with the Adabas 8 CICS link routine:**

1   Modify the member CICSGBL found in the ADA*vrs*.LIBR library, and set the REVIEW and REVREL LGBLSET keywords:

Parameter	Description	Syntax
REVHID	Specifies the preferred Adabas Review hub ID. This value can be checked during the Adabas TP monitoring installation or during the monitor activate process. If REVHID is set to zero (0), the preferred Adabas Review hub ID is dynamic. When the hub ID is dynamic, it cannot be checked during the Adabas TP monitoring installation and the call to turn on client reporting must supply the correct Adabas Review hub ID to use. If REVHID is specified, REVIEW=YES must also be specified. If REVHID is specified and REVIEW=NO is also specified, the assembly of the globals table will abort with condition code 16 and the following message is given: `REVHID requires REVIEW=YES` This parameter is not valid in VSE environments. The parameter exists in VSE environments, but should be set to "0".	`REVHID=`*hubid*
REVIEW	Indicates whether or not Software AG's Adabas Review performance monitor is installed and active.	`REVIEW={NO ↵` `| YES}`
REVREL	This parameter is redundant and will be dropped in a future Adabas version. Please remove any use of this parameter from your LGBLSET input. Continued use of this parameter will result in the following informational MNOTE message: `REVREL= is redundant and is no longer required.` The assembly of the globals table is unaffected.	`REVREL={ }`
RVCLNT	Indicates whether Adabas Review client reporting should be allowed. When client reporting is allowed, it can be activated by the ADARUN RVCLIENT parameter in a batch environment (ADARUN PROGRAM=USER). The default is NO. If RVCLNT=YES is specified, REVIEW=YES must also be specified. If RVCLNT=YES is specified and REVIEW=NO is also specified, the	`RVCLNT={YES|NO}`

Parameter	Description	Syntax
	assembly of the globals table will abort with condition code 16 and the following message is given: `RVCLNT=YES requires REVIEW=YES` This parameter is not valid in VSE environments. The parameter exists in VSE environments, but should be set to "NO".	

For example, the following keywords indicate that Adabas Review support should be installed and, specifically, support for Adabas Review 4.6 and later.

```
REVIEW=YES
REVREL=46
```

2   Modify the sample job LREVLCIC.X to set the SVC, DBID, library, and sublibrary information and submit it.

3   Restart Adabas and CICS.

4   Initialize and test Adabas Review.

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

Install Adabas Review under Batch

This section provides instructions for installing the batch components of Adabas Review with the Adabas batch link routines.

⚠   **Important:** If an ADALNK batch link routine has been linked or modified by Software AG product modules or user exits, it cannot be used in any application startups of Adabas utility jobs or Adabas, Entire System Server, Adabas Review Hub, or Entire Net-Work nuclei.

≫ **To install the batch components of Adabas Review for the Adabas 8 batch link routine:**

1   Edit member LNKGBLS.A in the Adabas distribution sublibrary. Provide values for the LOGID, SVC, GBLNAME, and other keywords to suit your installation requirements. Be sure to set the REVIEW and REVREL LGBLSET keywords:

Parameter	Description	Syntax
REVHID	Specifies the preferred Adabas Review hub ID. This value can be checked during the Adabas TP monitoring installation or during the monitor activate process. If REVHID is set to zero (0), the preferred Adabas Review hub ID is dynamic. When the hub ID is dynamic, it cannot be checked during the Adabas TP monitoring installation and the call to turn on client reporting must supply the correct Adabas Review hub ID to use. If REVHID is specified, REVIEW=YES must also be specified. If REVHID is specified and REVIEW=NO is also specified, the assembly of the globals table will abort with condition code 16 and the following message is given: `REVHID requires REVIEW=YES` This parameter is not valid in VSE environments. The parameter exists in VSE environments, but should be set to "0".	`REVHID=`*`hubid`*
REVIEW	Indicates whether or not Software AG's Adabas Review performance monitor is installed and active.	`REVIEW={`<u>`NO`</u> ↵ `| YES}`
REVREL	This parameter is redundant and will be dropped in a future Adabas version. Please remove any use of this parameter from your LGBLSET input. Continued use of this parameter will result in the following informational MNOTE message: `REVREL= is redundant and is no longer required.` The assembly of the globals table is unaffected.	`REVREL={ }`
RVCLNT	Indicates whether Adabas Review client reporting should be allowed. When client reporting is allowed, it can be activated by the ADARUN RVCLIENT parameter in a batch environment (ADARUN PROGRAM=USER). The default is NO. If RVCLNT=YES is specified, REVIEW=YES must also be specified. If RVCLNT=YES is specified and REVIEW=NO is also specified, the assembly of the globals table will abort with condition code 16 and the following message is given:	`RVCLNT={YES|`<u>`NO`</u>`}`

Parameter	Description	Syntax
	`RVCLNT=YES requires REVIEW=YES` This parameter is not valid in VSE environments. The parameter exists in VSE environments, but should be set to "NO".	

```
REVIEW=YES
REVREL=46
OPSYS=VSE
```

> **Note:** If you elect to use the reentrant link routine, edit member LNKRGBL.A in the Adabas distribution sublibrary.

2   Edit the ALNKLNK8.X member found in the Adabas 8 sublibrary. This member will assemble and catalog the LNKGBLS.A module and link it and any desired exits with the LNKVSE8.OBJ module to create the ADALNK.PHASE member for Adabas 8. The ALNKLNK8.X member includes sample link-edit control cards to support UES by including the LNKUES.OBJ. module with the ASC2EBC and EBC2ASC translation tables. Modify the link-edit control cards to include any additional Software AG exit or user exits, as specified in the updated LNKGBLS.A member.

> **Note:** If you elect to use the reentrant link routine, edit member ALNKLNR8.X in the Adabas distribution sublibrary.

3   Provide the ADALNK.PHASE member in the LIBDEF search chain for the job step that will require Adabas database access or Software AG services.

> **Note:** If you elect to use the reentrant link routine, provide the ADALNKR.PHASE member in the LIBDEF search chain for the job step that will required Adabas database access or Software AG services.

4   Restart Adabas and verify that the modules ADATMZ, ADALNK, ADALNKR, and CCSTCK are included in the LIBDEF concatenation for the batch startup job.

5   Initialize and test Adabas Review.

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

6 **Starting Adabas Review**

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, Adabas Review will automatically 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 Adabas Review reports.

≫ **The following describes Adabas Review's basic processing steps and any input you need to provide:**

1   The first time you start SYSREVDB and enter MENU, Adabas Review will detect whether the profiling system has been installed.

- If it has been installed and you have user profiles already defined, Adabas Review will use those.
- If it has not been installed, Adabas Review will install it automatically. It installs two profiles: one profile named DEFAULT and a profile with the same name as the user ID of the user initializing the system (the user who entered MENU). Both profiles have administrator privileges.

2   Immediately after Adabas Review addresses the installation and initialization of the user profile system, the following message appears.

```
Default user profiles were installed.

    Press ENTER to continue. ↵
```

Once you press ENTER, Adabas Review will automatically evaluate the Adabas Review user exits and RVCALL* programs on your current system.

3   If any Adabas Review user exits or RVCALL* programs are found in your environment, Adabas Review will recompile them so they work in the current release.

If they do not exist on your system, Adabas Review will install them automatically. While Adabas Review addresses the installation and initialization of the user exits, the following message appears:

```
Installing Sample User Exits ↵
```

4   When user exit initialization is finished, Adabas Review will automatically detect if the repository is empty.

- ■ If it is not empty, Adabas Review immediately directs you to the main menu and you can get started using the product.

- ■ If it is empty, Adabas Review displays the Initialization Process screen and waits for your input. The remainder of the processing steps involve initializing the Adabas Review data file and installing the supplied Adabas Review reports.

```
          Initialization Process

Review has not yet been initialized.

The following process will initialize the
Review file and create sample reports and
target definitions.

You are about to save information into the
REVIEW repository.

The DBID/FNR of the REVIEW repository is
currently set to: DBID: 221
                   FNR: 50

If this is correct enter 'YES' to continue,
else press enter to cancel: ___
```

Confirm or cancel the initialization on this screen.

5   Confirm or cancel the initialization on the Initialization Process screen.

- ■ If the database ID (DBID) and file number (FNR) listed on this screen are correct for the Adabas Review repository, enter "YES" in the prompt to confirm the initialization.

- ■ To cancel the initialization, press ENTER (without "YES" specified).

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

```
08:49:56                    *****  R E V I E W  *****                    2016-03-17
                                   Main Menu                            Target=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.

6   Type in the SVC and Adabas version number in the appropriate fields on the Default Target
     Definition screen and press ENTER. Based on the information you provide, Adabas 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                    Target=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 reports supplied with Adabas Review 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
```

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

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

```
 08:49:56              A D A B A S  -  R E V I E W           2011-03-17
                              Main Menu                      Target=15690

                 Code              Description
                 ----      --------------------------------
                  AA           Available ADABAS Nuclei
                  AH           Available Review Hubs
                  AO           ADABAS Online System
                  ER           Edit Report Definition
                  ES           Edit Specialty Reports
                  ET           Edit Target Definition
                  LH           List History Reports
                  LR           List Report Definitions
                  LS           List Started Reports
                  LT           List Target Definitions
                  UP           User Profiles
                 ----      --------------------------------




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

Verifying the Installation

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

The following errors may be detected during processing:

Under Com-plete

USER BUFFER NOT LARGE ENOUGH

Explanation	The user buffer extension is not large enough for Adabas Review to pass data to Adabas. The parameter LRVINFO was not set correctly in the link routine.
Action	Use the procedure in the installation section of the documentation to correctly install the Adabas Review link routine exit in the link routine.

ADAPRM IS MISSING FROM THE PARAMETER LIST

Explanation	The Natural ADAPRM area was not passed in the parameter list for the Adabas call. The value ADAPRM=ON was not set correctly in the parameter module (NATPARM) for the Natural nucleus currently executing.
Action	Use the procedure in the installation section of the documentation to correctly add ADAPRM=ON to the Natural NATPARM parameter module.

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

Explanation	1) The user buffer extension is not large enough for Adabas Review to pass data to Adabas. The parameter `LRVINFO` was not set correctly in the Adabas/Com-plete link routine. 2) The Natural ADAPRM area was not passed in the parameter list for the Adabas call. The value ADAPRM=ON was not set correctly in the parameter module (NATPARM) for the Natural nucleus currently executing.
Action	1) Use the procedure in the installation section of the documentation to correctly install the Adabas Review link routine exit in the Adabas/Com-plete link routine. 2) Use the procedure in the installation section of the documentation to correctly add ADAPRM=ON to the Natural NATPARM parameter module.

THE Adabas REVIEW LINK ROUTINE IS NOT CORRECTLY INSTALLED

Explanation	The Adabas Review link routine exit is not installed in the copy of the link routine currently being executed.
Action	Use the procedure in the installation section of the documentation to correctly install the Adabas Review link routine exit in the link routine.

THE Adabas REVIEW REPOSITORY HAS NOT BEEN INITIALIZED

Explanation	Adabas Review could not initialize because the repository file has not been initialized.
Action	Use the procedure described in section *Starting Adabas Review for the First Time* to correctly initialize the repository file. If the problem persists, contact your Software AG technical support representative.

Under CICS

USER BUFFER NOT LARGE ENOUGH

Explanation	The user buffer extension is not large enough for Adabas Review to pass data to Adabas. The parameter LRVINFO was not set correctly in the Adabas/CICS link routine.
Action	Use the procedure in the installation section of the documentation to correctly install the Adabas Review link routine exit in the Adabas/CICS link routine.

ADAPRM IS MISSING FROM THE PARAMETER LIST

Explanation	The Natural ADAPRM area was not passed in the parameter list for the Adabas call. The value ADAPRM=ON was not set correctly in the parameter module (NATPARM) for the Natural nucleus currently executing.
Action	Use the procedure in the installation section of the documentation to correctly add ADAPRM=ON to the Natural NATPARM parameter module.

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

Explanation	1) The user buffer extension is not large enough for Adabas Review to pass data to Adabas. The parameter LRVINFO was not set correctly in the Adabas/CICS link routine.
	2) The Natural ADAPRM area was not passed in the parameter list for the Adabas call. The value ADAPRM=ON was not set correctly in the parameter module (NATPARM) for the Natural nucleus currently executing.
Action	1) Use the procedure in the installation section of the documentation to correctly install the Adabas Review link routine exit in the Adabas CICS link routine.
	2) Use the procedure in the installation section of the documentation to correctly add ADAPRM=ON to the Natural NATPARM parameter module.

THE Adabas REVIEW LINK ROUTINE IS NOT CORRECTLY INSTALLED

Explanation	The Adabas Review link routine exit is not installed in the copy of the Adabas/CICS link routine currently being executed.
Action	Use the procedure in the section *Installation (Phase 2)* to correctly install the Adabas Review link routine exit in the Adabas/CICS link routine.

THE Adabas REVIEW REPOSITORY HAS NOT BEEN INITIALIZED

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

Action   Use the procedure described in section *Starting Adabas Review for the First Time* to correctly initialize the repository file. If the problem persists, contact your Software AG technical support representative.

7   Operations

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

Assigning Logical Units

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

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

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

≫ To change logical unit numbers used by Adabas Review

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

This member is self-documenting.

2   Make the necessary changes.

3   Adapt the LNKLUBS.X JCS and use it to assemble and link RAOSLUBS.A.

Processing Abends

The Adabas Review main task in both local and hub modes is protected by STIXIT. In local mode, the STIXIT protects the Adabas nucleus; in hub mode, it protects the Adabas Review clients (also Adabas nuclei).

In local mode, if Adabas Review processing terminates abnormally (abends) in the Adabas main task, the Adabas Review STIXIT routine is given control.

The STIXIT routine traps the abend and disables Adabas Review processing for the remainder of the Adabas nucleus session.

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

Abend Protection for Adabas

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

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

Message to Adabas Review Users

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

```
Adabas Review not installed on database
```

Messages to the Console

The progress of the error handling routine is reported by messages written to the console. The following example sequences of console messages provided in this section are sent during abend processing:

```
REV20122 - REVIEW ESTAE EXIT DRIVEN
REV20122 - REVIEW NOW DISABLED
REV20122 - ABEND 000C1000 PSW 078D2000 80129E98
REV20122 - R0  00000002 - R1  0D652DD0 - R2  000FD240 - R3  000FBCC0
REV20122 - R4  00129C48 - R5  0D50AFA8 - R6  0D6E8000 - R7  001331F8
REV20122 - R8  0D50B0E8 - R9  800E93E0 - R10 00042000 - R11 0D5007E0
REV20122 - R12 80128C48 - R13 00128D68 - R14 001294BA - R15 8000DD10
REV20122 - 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 to 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 Adabas 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 will affect the functioning of Adabas Review and is, therefore, not recommended.

Adabas Startup Statements

For z/VSE, the following statements are added to the Adabas startup job stream during Adabas Review installation:

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

```
//  ASSGN SYS005,IGN                   RVUPARM - batch parameters
//  ASSGN SYS007,DISK,VOL=vvvvvv,SHR   RVUAUT1, RVUAUT2
//  ASSGN SYS008,DISK,VOL=vvvvvv,SHR   RVUALT - alt history file
//  ASSGN SYS020,SYSLST                RVUPRT0 - printer
//  ASSGN SYS021,SYSLST                RVUPRT1 - printer
//  ASSGN SYS022,SYSLST                RVUPRT2 - printer
//  ASSGN SYS023,SYSLST                RVUPRT3 - printer
//  ASSGN SYS041,DISK,VOL=vvvvvv,SHR   RVUCARD - GENCARD
//  ASSGN SYS006, DISK,VOL=vvvvvv,SHR  RVUEXI - operating env parameters
//  ASSGN SYS019,SYSLST                RVUEXP - EXI parameters printer
*
//  DLBL RVUAUT1,'REVvrs.AUTO1',0
//  EXTENT SYS007,vvvvvv,1,0,nnnn,5
//  DLBL RVUAUT2,'REVvrs.AUTO2',0
//  EXTENT SYS007,vvvvvv,1,0,nnnn,5
*
//  DLBL RVUFLD,'REVvrs.USER.FIELDS',0
//  EXTENT SYS007,vvvvvv
*
//  DLBL RVUCARD,'REVvrs.CARD.FILE',0
```

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

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

The Adabas 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
- RVSUM01 and RVSUM02 Summary Logging Files
- RVUALT History File
- RVUAUT1 and RVUAUT2 Report Definition Data Sets
- RVUCARD Data Set for the GENCARD Command
- RVUEXI Parameter File
- RVUEXP Companion Output File
- RVUFLD User Field Parameter Data Set
- RVUPARM Dummy Data Set
- RVUPRTnn Logical Printer Files
- RVUSEQ Input file for Review Batch Processor

> **Note:** The RVUPRT00 data set is mandatory for the Adabas Review processor. Omitting this data set prohibits the start of the subtask and affects the subsequent use of SYSREVDB for Adabas Review administration. For example, the TECH command within SYSREVDB can yield unpredictable results when Adabas Review is started without the RVUPRT00 data set. Other files described in this section can be omitted if not needed.

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 a 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. DLBL, EXTENT, and ASSGN statements must be added to the JCS for each command log file. The names of these command log files are made up of the file name prefix and a sequential number. The data sets for these command log files are created when they are opened.

Refer to the section *Command Logging Considerations*, elsewhere in this guide, for more information.

RVSUM01 and RVSUM02 Summary Logging Files

RVSUM01 and RVSUM02 are the default names for the sequential summary logging files. Each report performing summary logging must reference a unique file name prefix and a number of summary log files associated with that file name prefix.

> **Note:** All summary log data sets for a particular report must be the same size.

Adabas Review allows each report to have up to 99 summary log files and writes to these files in sequential order. DLBL, EXTENT, and ASSGN statements must be added to the JCS for each summary log file. The names of these summary log files are made up of the file name prefix and a sequential number. The data sets for these command log files are created when they are opened.

Refer to the section *Summary Logging Considerations*, elsewhere in this guide for more information.

RVUALT History File

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

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

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

A RVUALT job control statement can identify an alternate sequential file to which historical data may be written when it cannot be written to the Adabas Review repository.

- In hub mode, the Adabas Review hub startup JCS contains a RVUALT statement.

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

RVUALT 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.

> **Note:** Ensure that the RVUALT data set is large enough to store all the data Adabas Review writes to it. Monitor the RVUALT data set and take appropriate action if the data set becomes full.

The RVUALT history file is allocated using the job DBFILES.

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

- unavailable (in hub mode).

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

The next time the Adabas Review hub is started (in local mode, the next time Adabas is started), another subtask is started to copy the historical data from the RVUALT file to the Adabas Review repository.

RVUAUT1 and RVUAUT2 Report Definition Data Sets

RVUAUT1 and RVUAUT2 are data sets that contain the report definition control statements for autostarted reports and also some system relevant session parameters such as buffer sizes (for more information, read *INPUT Statement*, in the *Adabas Review User Guide*. Adabas Review generates the statements and writes them to these files whenever online the target definition parameters are changed (read *Displaying SVC Lists and Target Objects* in the *Adabas Review Administration Guide*) or an autostarted report is created or changed.

When Adabas is initialized, the reports are started automatically.

Under z/VSE, this file is created by the installation job DBFILES.X.

> **Note:** In a future release of Adabas Review, RVUAUT2 will no longer be supported. RVUAUT1 only will be used for autostarted reports.

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 DLBL, EXTENT, and ASSGN statements, and the generated statements are written to the corresponding file.

RVUEXI Parameter File

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

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

RVUEXP Companion Output File

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

RVUFLD User Field Parameter 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 as a dummy data set by assigning SYS005 to IGN. In previous releases, batch parameter statements were read from this file. Because these statements may now be generated using the `GENCARD` command, you no longer need to code batch parameters manually. Parameters may be coded in this data set if desired, and Adabas Review will access this data set prior to accessing data sets specified by RVUAUT1 and RVUAUT2.

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

RVUPRTnn Logical Printer Files

RVUPRT00 for Adabas Review Statistics

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

> **Note:** The RVUPRT00 data set is mandatory for the Adabas Review processor. Omitting this data set prohibits the start of the subtask and affects the subsequent use of SYSREVDB for Adabas Review administration. For example, the TECH command within SYSREVDB can yield unpredictable results when Adabas Review is started without the RVUPRT00 data set. Other files described in this section can be omitted if not needed.

RVUPRTnn Files for Reports

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 (JCS).

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

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

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

RVUSEQ Input file for Review Batch Processor

RVUSEQ specifies a sequential input file that contains Adabas command log records. This file is either created by Adabas or by Adabas Review. If you use Adabas dual command logging, you must first use the Adabas utility function ADARES CLCOPY to generate a sequential command log data set suitable for input into Adabas Review.

Editing the RVUEXI Parameter File

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

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

RVUEXI User-Specified Parameter

Parameter	Possible Values	Default
UIDT-CELLS	100-10000	1000

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

RVUEXI Timeout Parameters

Parameter	Possible Values	Default
UCMD-TIMEOUT	0-999	60

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

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

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

Parameter	Possible Values	Default
UIDT-TIMEOUT	1-999	60

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

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

However, if the user's application does not issue a CL during termination, Adabas 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, Adabas 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.

Setting Up Command Logging

Adabas Review provides you with 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 startup JCS (hub mode) or the Adabas nucleus startup JCS (local mode).

   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 startup JCS.

   The name must be a five-character name followed by a sequential number (01, 02, etc.) corresponding to the number of command logs. For example, if the name is "CMLOG" and there are two 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 File command logging report option. The total number of data sets is referenced by the report in the Num of Logs command logging report option. For more information about these logging options, read *Logging Options*, in the *Adabas Review User Guide*.

   Refer to the section *RVLOG01 and RVLOG02 Command Logging Files*, elsewhere in this guide, 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, switches to the next sequential file, and continues logging. When all files have been filled, Adabas Review switches back to the oldest file to log data. If a command logging user exit is *not* specified, Adabas Review will write over the log data in the file containing the oldest data.

A command logging user exit can be specified so that the data contained in the command log file can be copied to a new file before the command log file is overwritten with new command log data. This user exit will be called each time a command log file is closed or opened, but it is only called if you reference it in the User Exit report logging option. For more information about this logging option, read *Logging Options*, in the *Adabas Review User Guide*.

For complete information about the command logging user exit, read *REVUXLOG: Command or Summary Logging User Exit*, in the *Adabas Review Reference Guide*

Summary Logging Considerations

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

Setting Up Summary Logging

Adabas Review provides you with options for determining how summary logging is processed for reports. However, the Adabas Review administrator must complete the following tasks to set up the Adabas Review environment so that summary logging can take place:

1. Allocate summary log data sets. Summary log data sets must be allocated for reports.

2. Add job control statements to the Adabas Review hub startup JCS or the Adabas nucleus startup JCS (local mode).

   Each report that performs summary logging must have a summary log file assigned to it. For each summary log file, there must be a corresponding job control statement in the startup JCS.

   The name must be a five-character name followed by a sequential number (01, 02, etc.) corresponding to the number of summary logs. For example, if the name is "SMLOG" and there are two data sets to be defined, two statements are required with names as follows: SMLOG01 and SMLOG02. The five-character name is referenced by the report in the Summary File summary logging report option. The total number of data sets is referenced by the report in the Num of Logs summary logging report option. For more information about these logging options, read *Logging Options*, in the *Adabas Review User Guide*.

   Refer to the section *RVSUM01 and RVSUM02 Summary Logging Files*, elsewhere in this guide, for more information.

Using the Summary Logging User Exit

Adabas Review writes to summary log files in sequential order. When a summary log file is filled, Adabas Review closes the file, switches to the next sequential file, and continues logging. When all files have been filled, Adabas Review switches back to the oldest file to log data. If a summary logging user exit is *not* specified, Adabas Review will write over the log data in the file containing the oldest data.

A summary logging user exit can be specified so that the data contained in the summary log file can be copied to a new file before the summary log file is overwritten with new summary log data. This user exit will be called each time a summary log file is closed or opened, but it is only called

if you reference it in the Log Full Exit report logging option. For more information about this logging option, read *Logging Options*, in the *Adabas Review User Guide*.

For complete information about the summary logging user exit, read *REVUXLOG: Command or Summary Logging User Exit*, in the *Adabas Review Reference Guide*

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 SYSREVDB` and press ENTER.

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

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

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

The rest of this section describes the CONFIGDB file parameters.

CONFIGDB File Parameter Description

The CONFIGDB file contains parameters that affect Adabas Review. It is saved in the Natural library SYSREVDB.

Parameter	Possible Values	Default	Description
AVG-MEAN	AVG | MEAN	AVG	Specifies whether the term "AVG" or "MEAN" appears on reports and SYSREVDB screens where average (mean) values are displayed.
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.
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).
DECIMAL-CHAR	NAT|*char*	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

Parameter	Possible Values	Default	Description
			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.
MAXIMUM-MAXK	0 | *nnnn*	0	Specifies the maximum value that can be specified for the report option, Max K. The Max K value determines the maximum amount of storage available for a specific report. A value of 0 (the default) indicates that the Max K option is not restricted. When specifying a value, MAXIMUM-MAXK must be 4 or greater for z/OS.
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.
PC-FILE	'*text*'	'DOWNLOAD-PC-FILE-7'	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. This work file must be defined at Natural start.
REVIEWDB-UEX	*name*	exit not enabled	Specifies the name of the site-dependent Natural routine to be called for validation of a user's access to an Adabas Review function. Refer to Natural source member N-USEXIT for more information on the calling and processing conventions for this exit.
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.
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 "|".
DISPLAY	BASIC | EDITOR	BASIC	Specifies whether the traditional method for generating display programs will be used

Parameter	Possible Values	Default	Description
			(value "BASIC", default) or if display programs will be generated using the Software AG Editor (value "EDITOR").
HDR-LINE-COUNT	-1 | 0 | nnnn	-1	Specifies after how many data lines header lines will be inserted. When set to -1, a header will be inserted in every page, depending on the page size. When set to 0, one header will be inserted at the top of the data.
FIXED-CHARS	-1 | 0 | nnnn	-1	Specifies the number of fixed bytes in the editor area when scrolling left/right. When set to -1, FIXED-CHARS will be set to the length of the first column.
MAX-NO-OF-LINES	-1 | 0 | nnnnn	3000	Specifies the maximum number of lines loaded into the editor buffer pool. With a limit of 3000 long loading times or overflow of the Editor buffer pool shall be avoided. For higher numbers make sure the work file for the Editor buffer pool or the EDPSIZE is big enough. A value of -1 or 0 means "no limit". In this case the size of the Editor buffer pool is the limit.

Adabas Review Natural User Exits

Adabas Review has two Natural user exits. These exits are found in the Adabas Review system library in Natural, and may be modified by using the Natural editor.

For more information about these exits, read *P-UEXIT1 and P-UEXIT2: Review Natural User Exits*, in the *Adabas Review Reference Guide*.

8 Operator Commands

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

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

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

Entering Operator Commands

> **To enter ADAREV operator commands in z/VSE environments**

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

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

2 Enter the desired Adabas operator command or commands.

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

3 When all desired commands have been entered, close the operator communication session by entering a null command (EOB).

4 To enter any more commands after the session is closed, repeat this entire procedure.

Operator Command Overview

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

- ADAEND Operator Command
- CANCEL Operator Command
- DCLIENT Operator Command

- DCQ Operator Command
- DNC Operator Command
- STARTCLIENT Operator Command
- STOPCLIENT Operator Command
- Adabas Operator Commands

ADAEND Operator Command

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

CANCEL Operator Command

Use the CANCEL operator command to terminate ADAREV immediately; the Adabas Review nucleus is abnormally terminated and the job aborts with a user completion code of 253.

DCLIENT Operator Command

DCLIENT = { dbid | ALL}

Use the DCLIENT operator command to display information about the specified client or about all (ALL) clients. DCLIENT displays the number of clients currently registered with the hub and the individual status of each client, including the client's DBID, the associated nucleus IDs (for cluster databases), the time of last activity, the number of DBID=ALL reports, the number of database reports, any buffers required by the client, and the total number of monitoring data records received from the client. The following is an example of the message output:

```
REVH13 11135 Dbid Nucid Last-act Rpts Buffers Log-records
REVH13 11135 00001        22:15:18 01/01 FRSVIM 2222
REVH13 11135 00002        --:--:-- 01/00 ------ 0
REVH13 11135 00129        --:--:-- 01/02 -R---- 0
REVH13 11135 00129-00120 22:15:18 00/00 ------ 1
REVH13 11135 00129-00177 22:15:20 00/00 ------ 170
REVH13 11135 00129-00230 --:--:-- 00/00 ------ 0
```

In this example:

- Database 001 has one DBID=ALL report and one database-specific report running (01/01) and six specific buffers requested: the format buffer (F), the record buffer (R), the search buffer (S), the value buffer (V), the ISN buffer (I), and the multifetch buffer (M). This database sent 2222 log records to the hub.

- Database 002 has only one DBID=ALL report running (01/00) and no specific buffers are requested. This database has not yet sent any log records to the hub.

- Finally, database 129 is a cluster database with three nucleus IDs (00120, 00177, and 00230). It has one DBID=ALL report running and two database-specific reports (01/02). A record buffer only is requested. This report and buffer information is not repeated for each nucleus in the cluster, but the individual values for last activity time and the number of log records submitted to the hub for each nucleus is shown.

DCQ Operator Command

Use the DCQ command 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 Adabas 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 Operator Command

Use the DNC operator command to display the number of queued requests currently in the command queue.

STARTCLIENT Operator Command

STARTCLIENT = { *dbid* | ALL }

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

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

STOPCLIENT Operator Command

STOPCLIENT = { *dbid* | ALL }

Use the STOPCLIENT operator command to initiate a change order command to the specified client or to all (ALL) clients informing them 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

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

CANCEL

Terminates 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.

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