

# Operations

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

This chapter covers the following topics:

- SYSOUT and a Subtask List Files
  - Files Used by Adabas Review
  - Editing the RVUEXI Parameter File
  - Command Logging Considerations
  - Summary Logging Considerations
  - Modifying Configuration Parameters
  - Adabas Review Natural User Exits
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## **SYSOUT and a Subtask List Files**

Adabas Review spawns the following subtask jobs:

- In local mode, the Adabas Review database and in hub mode, the Adabas Review hub spawns a job where the Adabas Review subtask REVIEWB runs.
- When an automatically generated report is started, a job running REVAUTO is started.
- When a history report is started, a job running RAOSHIST is started.

Each of these jobs generates a SYSLST file with the following file name structure:

`L.<L/O>.<task_number>,<subtask>,<timestamp>`

where

L	is for SYSLST						
O	is for SYSOUT						
task_number	is the task number of the Adabas Review database or Adabas Review hub						
subtask	is one of the following:						
	<table> <tr> <td>REVIEWB#</td> <td>for the Adabas Review subtask</td> </tr> <tr> <td>RAOSAUTO</td> <td>for the autogenerated report subtask</td> </tr> <tr> <td>RAOSHIST</td> <td>for the history report subtask</td> </tr> </table>	REVIEWB#	for the Adabas Review subtask	RAOSAUTO	for the autogenerated report subtask	RAOSHIST	for the history report subtask
REVIEWB#	for the Adabas Review subtask						
RAOSAUTO	for the autogenerated report subtask						
RAOSHIST	for the history report subtask						
timestamp	is the STCK value when the subtask was started. In older Adabas versions (prior to 8.1 SP4), this value is in hexadecimal; in Adabas 8.1 SP4 and later versions, this value appears in the format: <i>yyyy-mm-dd.mmss.sss</i> .						

The files provide important diagnostic information when errors occur within the system. They may, however, accumulate in number over time so that it becomes necessary to delete them.

 **To delete all accumulated Adabas Review subtask listings**

1. Use the commands

```

/DELETE-FILE L.*REVIEWB##
/DELETE-FILE L.*RAOSAUTO*
/DELETE-FILE L.*RAOSHIST*
```

## Files Used by Adabas Review

This section describes the files used by Adabas Review:

- RVLOGnn Command Logging Files
- RVSUMnn Summary Logging Files
- RVUALT History File
- RVUAUT1 and RVUAUT2 Report Definition Data Sets (Files)
- RVUCARD Data Set (File) for GENCARD Command
- RVUEXI Parameter File
- RVUEXP Companion Output File
- RVUFLD User Field Parameter Data Set

- RVUPARM Dummy Data Set
- RVUPRTnn Logical Printer Files

**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 SYSREVDDB for Adabas Review administration. For example, the TECH command within SYSREVDDB 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.

## RVLOGnn Command Logging Files

The RVLOGnn files are sequential command logging files. There may be more than two command logging files. If the files are given no secondary extent, data will be continued in the next RVLOGnn ( $nn+1$ ) file. When the last command logging file has filled, command logging will start overwriting the data in RVLOG01. The P.GENERATE job can be amended to create more than two command logging files, as needed by your installation.

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 (files) for a particular report must be the same size.

Adabas Review command logging under BS2000 is an optional feature. BS2000 uses its own command logging files.

Refer to the section *Command Logging Considerations* for more information.

## RVSUMnn Summary Logging Files

The RVSUMnn files are sequential summary logging files. There may be more than two summary logging files. If the files are given no secondary extent, data will be continued in the next RVSUMnn ( $nn+1$ ) file. When the last summary logging file has filled, summary logging will start overwriting the data in RVSUM01. The P.GENERATE job can be amended to create more than two summary logging files, as needed by your installation.

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 (files) for a particular report must be the same size.

Adabas Review summary logging under BS2000 is an optional feature. BS2000 uses its own summary logging files.

Refer to the section *Summary Logging Considerations* for more information.

## RVUALT History File

RVUALT is an alternate sequential file used to save history data.

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.

The Adabas Review startup job contains a RVUALT job control statement. This statement identifies an alternate file to which historical data may be written.

In situations where the Adabas Review repository is unavailable, Adabas Review receives a response code 148.

In this case, Adabas Review writes the data to the file specified by the RVUALT job control statement, if it has been assigned in the job stream. The next time the Adabas Review hub is started, another subtask is started to copy the historical data to the Adabas Review repository.

### **Note:**

A separate RVUALT data set (file) must be allocated for each Adabas Review hub.

For BS2000 systems, allocate this file using P.GENERATE.

## RVUAUT1 and RVUAUT2 Report Definition Data Sets (Files)

RVUAUT1 and RVUAUT2 are data sets (files) 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*). Adabas Review generates the statements and writes them to these files. When Adabas is initialized, the reports are started automatically.

For BS2000 systems, generate these files using P.GENERATE.

### **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 (File) for GENCARD Command

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

For BS2000 systems, the command requires the user to supply a DDNAME, 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 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 (file) contains parameter control statements for creating user-defined fields. Parameters in this data set (file) define the length, type, and location of reporting fields to be determined by the user.

## RVUPARM Dummy Data Set

Software AG recommends that you set RVUPARM as a dummy data set. 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 (file) if desired, and Adabas Review will access this data set (file) prior to accessing data sets (files) specified by RVUAUT1 and RVUAUT2.

For BS2000 systems, use the data set (file) \*DUMMY.

### Notes:

1. When RVUPARM is "dummied", the following message displays: **REV20164 - OPEN FAILED FOR RVUPARM**. When RVUPARM has been dummied, this message is normal and should be ignored.
2. The above error message can be avoided by creating a RVUPARM data set (file) that contains only an asterisk.

## RVUPRT $nn$ 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.

## RVUPRT $nn$ 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 startup JCL (hub mode) or to the Adabas nucleus startup JCL (local mode).

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

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

## Editing the RVUEXI Parameter File

RVUEXI is a parameter file that contains parameters which 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	<u>1000</u>

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	<u>60</u>

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 (files). Command log data sets (files) must be allocated for reports.
2. Add job control statements to the Adabas Review hub startup JCL (hub mode) or to the Adabas nucleus startup JCL (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 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 (files) 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 (files) is referenced by the report in the Num of Logs command logging report option. For more information about these logging options, read *Logging Options*.

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, 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*.

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

## 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 (files).

Summary log data sets (files) must be allocated for reports.

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

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 (files) 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 (files) is referenced by the report in the Num of Logs summary logging report option. For more information about these logging options, read *Logging Options*.

Refer to the section *RVSUM01 and RVSUM02 Summary Logging Files* 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*.



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

## Modifying Configuration Parameters

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

 **To access and modify the CONFIGDB parameters**

1. At the Natural NEXT prompt, type LOGON SYSREVDDB and press ENTER.
2. Type the command EDIT CONFIGDB and press ENTER.
3. Type SAVE and press ENTER to save the changes.
4. Type MENU at the prompt to return to Adabas Review.

### CONFIGDB File Parameter Description

CONFIGDB contains parameters that affect Adabas Review.

CONFIGDB is saved in the Natural library SYSREVDDB.

Parameter	Possible Values	Default
CURSOR-POSITION	<u>B</u> OT   <u>T</u> OP	<u>B</u> OT

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

Parameter	Possible Values	Default
DECIMAL-CHAR	NAPARM DC= <i>value</i>	.

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

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

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

Parameter	Possible Values	Default
RVXB-MESSAGE	<u>Y</u> ES   <u>N</u> O	<u>Y</u> ES

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

Parameter	Possible Values	Default
UBAR	any valid character	

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

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

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

Parameter	Possible Values	Default
REVIEWDB-UEX	name	exit not enabled

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

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

Parameter	Possible Values	Default
MAXIMUM-MAXK	0   <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 8 or greater.

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

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

## 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*.