

Using the Edit Report (ER) Function

Adabas Review report definitions are created using the Edit Report (ER) function. This function provides a series of fill-in-the-blank and selection screens to help you select the field information, processing rules, and report option parameters that make up a report definition.

The Edit Report screen is used to define field information; that is, the field name and order of selection. If the field type is numeric, you can specify whether the values are to be rounded, totaled, averaged, or expressed as a percentage or rate of commands per second. You can also specify that the minimum or maximum values are to be displayed.

Field information may either be entered directly on the Edit Report screen or selected from screens containing a list of fields. You can access a list of fields using PF11 , the FLDS command, or the LF command, and then selecting the appropriate categories. The order of selection is indicated by typing a number in front of the field. The chosen fields are transferred to the Edit Report screen in the order specified.

New reports may be created from existing reports by editing the original report, changing the name of the report, and saving it under the new name. New reports may also be created by using the Copy Report Definition (CR) command from the List Report Definitions (LR) function.

This chapter covers the following topics:

- Accessing the Edit Report Screen
 - Entering the Report Name
 - Entering the DBID
 - Entering the Field Names
 - Specifying Field Order
 - Specifying Numeric Options for Summary Reports
 - Using the Report Processing Rules Screen
 - Using the Report Options Screen
-

Accessing the Edit Report Screen

To access the Edit Report (ER) function

1. Enter the ER code on the command line.

To edit a report

1. From any of the list function screens (LR, LS, and LH), enter the ER command on the selection line preceding the report name.

Note:

Entering ER for the Buffer Pool Report displays the Buffer Pool Report window.

The Edit Report screen is displayed as shown below:

```

20:35:15                A D A B A S  -  R E V I E W                2003-07-07
                        Edit Report                                LOCL=00009

Report Name: _____ DBID to Monitor: _____

+-----+-----+-----+-----+-----+-----+-----+-----+
| Field      | Order  | Sum   | Min  | Max  | Avg  | Pct  | Rate | Round |
+-----+-----+-----+-----+-----+-----+-----+-----+
| _____| _____| _____| _____| _____| _____| _____| _____|
| _____| _____| _____| _____| _____| _____| _____| _____|
| _____| _____| _____| _____| _____| _____| _____| _____|
| _____| _____| _____| _____| _____| _____| _____| _____|
| _____| _____| _____| _____| _____| _____| _____| _____|
| _____| _____| _____| _____| _____| _____| _____| _____|
| _____| _____| _____| _____| _____| _____| _____| _____|
| _____| _____| _____| _____| _____| _____| _____| _____|
| _____| _____| _____| _____| _____| _____| _____| _____|
+-----+-----+-----+-----+-----+-----+-----+-----+
                        Page 1

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Optns Exit          Save Start -      +          Rules Flds Menu

```

The following PF key functions are provided on the Edit Report screen:

PF Key	Command	Description
PF2	Optns	Access the Report Options Screen.
PF5	Save	Save the current report definition.
PF6	Start	Save the report defined on the screen and start it.
PF10	Rules	Access the Report Processing Rules Screen.
PF11	Flds	Access the Database Fields Selection Screens.

The Edit Report screen provides the following input fields:

Heading	Explanation
Report Name	A unique name for the report. A maximum of 32 characters is allowed.
DBID	DBID of the database where the data is to be collected.
Field	The fields to be selected by the report. A maximum of 20 fields is allowed for each report.
Order	For summary reports, the order in which control breaks occur; at least one of the fields selected must be marked as an order field. For detailed reports, the order in which the fields are displayed.
Sum	Whether the values for the field are totaled.
Min	Whether the minimum value for the field is displayed.
Max	Whether the maximum value for the field is displayed.
Avg	Whether the average value is calculated for the field.
Pct	Whether the percentage is calculated for the field.
Rate	Whether the rate per second is calculated for the field.
Round	The amount by which the values of the field are rounded.

Entering the Report Name

A report name is required; otherwise, the report cannot be saved to the Adabas Review repository. A report name may be up to 32 characters long and must be unique. Alphanumeric and some special characters may be used in report names.

The following list of special characters may *not* be used in report names:

Character	Description
(')	Apostrophe
(�)	Cent sign
(:)	Colon
(,)	Comma
(\$)	Dollar sign
(=)	Equal sign
(%)	Percent sign
(.)	Period
(/)	Slash

Entering the DBID

Use this field to identify the database for which the report is to be created. For collecting data from multiple databases simultaneously (Review in Hub mode or in Local mode) the artificial target ID 11111 can be used. This target ID effectively causes the system to collect data for the report from all databases that have a reporting link already established with Adabas Review; however, use of the target ID 11111 does not create such a link.

To create a link between Adabas Review and each database for which you want to simultaneously collect data for a report, you must create a report with the DBID to monitor set to 11111. You must then start the report for each database from which you want to collect data. To identify the collected data with a particular database, you need to include the report field DBID at the first level of the report definition.

Entering the Field Names

Up to 20 fields may be selected for a single report. You may enter field names directly on the Edit Report screen or you may select the fields from a list. The fields you choose from a list are transferred automatically to the Edit Report screen.

Using the Field Category Selection Screen

▶ To view the field categories

1. Access the field selection screens by pressing PF11 or by entering the FLDS or LF command without a category code.

The Database Field Selection screen, which lists field categories, is displayed:

```

13:08:01                A D A B A S  -  R E V I E W                2003-07-07
                        Database Field Selection                    HUB=00221

Please Mark Categories to Select

AC - Adabas Control Block Fields ..... _
BU - Adabas Buffer Fields ..... _
IN - Interval and Time Fields ..... _
IO - Adabas I/O Fields ..... _
NA - Natural Fields ..... _
NU - Adabas Nucleus Fields ..... _
OP - Operating System Fields ..... _
TP - Transaction Processing Monitor Fields ... _

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

```

- If you need a description of a field category, use the online help system by placing a ? on the line opposite the category name.

This information is also documented in the appendix *Field Reference*.

- Choose the field category you wish to use by typing an X in the input field opposite the category name.

Using the Field Selection Screens

To use the field categories

- If you know the field category you wish to use, enter the FLDS command or the LF command followed by the code for the field category on the command line of the Edit Report screen.

Category codes are as follows:

Code	Field Type Category
AC	Adabas control block
BU	Adabas buffer
IN	Interval and time
IO	Adabas I/O
NA	Natural
NU	Adabas nucleus
OP	Operating system
TP	Transaction processing monitor

For example, to list the Adabas control block fields, you may enter either of the following:

```
LF AC
```

or

```
FLDS AC
```

Field lists for the chosen categories are displayed.

- Choosing the Adabas control block fields category displays the following screen:

15:49:53	A D A B A S - R E V I E W		2003-07-07
Page 1 of 2	Adabas Control Block Fields		HUB=12345
Sel	Fld Name	Description	Sel Fld Name Description
___	ACBUSER	- ACB user	___ DURATION - Duration (16 millisecs)
___	ADDIT1	- Additions 1	___ ECBS - ECBS posted in CQ
___	ADDIT2	- Additions 2	___ ERRFLDNM - Error field name
___	ADDIT3	- Additions 3	___ FB - Format buffer
___	ADDIT4	- Additions 4	___ FBFIELDS - Fields in format buffer
___	ADDIT5	- Additions 5	___ FBL - Format buffer length
___	CALLTYPE	- Call type	___ FILE - File number
___	CID	- Command ID	___ FILENAME - File name
___	CMD	- Adabas command	___ GLOBFMID - Global format ID
___	CMDNAME	- Command name	___ IB - ISN buffer
___	CMDSTAT	- Command status	___ IBL - ISN buffer length
___	CMDTYPE	- Command type	___ ISN - Internal seq number
___	CMPRECL	- Compressed rec length	___ ISNLL - ISN lower limit
___	COP1	- Command option 1	___ ISNQ - ISN quantity
___	COP2	- Command option 2	___ ORGDURA - Unmodified duration
___	DESUPD	- Nr of desc updated	
Command: _____			
Enter-PF1	PF2	PF3	PF4
PF5	PF6	PF7	PF8
PF9	PF10	PF11	PF12
Help	Exit	Accpt -	+
			Menu

- If you need a description of a field, use the online help system by placing a ? on the line opposite the field name.

This information is also documented in the appendix *Field Reference*.

Choose the fields you wish to use by typing an X on the line opposite the field name.

- Specify field order by typing a number on the line opposite the field name.

For more information, refer to the section *Specifying Field Order*.

- After completing your selections, press PF6 or enter the accept (ACCPT) command to hold your selections temporarily while you continue working on your report.

You are returned to the Edit Report screen where your field selections are transferred automatically. If you specified a field order, the numbers you entered are listed in the Order column.

Specifying Field Order

The order you specify for fields in your report affects the output differently depending on the type of report:

- For *detailed reports*, which are straight recordings of commands processed, the order indicates the order in which the fields are displayed.
- For *summary reports*, which display summarized data, the order indicates the order in which control breaks occur.

For example, in a summary report that displays command name and response code, the data is grouped first by command name, and within each command name group, the data is grouped by response code.

To specify field order

1. Type a unique number in the Order column for that field and press ENTER.

Duplicate order numbers are not accepted.

To change the field order

1. Change the order numbers and press ENTER.

The fields are displayed in the new order.

If you add or delete a field, the remaining fields are reordered accordingly.

For summary reports, at least one of the fields selected must be marked with an order number. Order numbers are not required for all fields; fields on which calculations are performed (such as a field marked as a SUM field) are generally not used as control breaks.

Specifying Numeric Options for Summary Reports

Note:

These options are valid only for database summary type reports.

Numeric Fields

For the following numeric fields, the order will not affect control break or sort processing:

Option	Explanation
Commands	number of commands accounted for in the control break.
Strtdate	date of the first command encountered in the control break.
Strttime	time of the first command encountered in the control break.
Enddate	date of the last command encountered in the control break.
Endtime	time of the last command encountered in the control break.
Seconds	total number of seconds that the account entry has been active.

Refer to the section *Report Options* in *Report Option Parameters* for more information about sorting reports by COMMANDS (USAGE), or by STRTDATE or STRTTIME (DATETIME).

Calculations

For numeric fields with which calculations may be performed (such as number of I/Os or command response time), the following mathematical operations may be performed for each control break on numeric field values:

Oper	For each control break, . . .
Sum	calculates and displays a total of the field's values.
Min	displays the minimum value for a field.
Max	displays the maximum value for a field.
Avg	calculates and displays the average value for a field.
Pct	calculates and displays the percentage for a field's values.
Rate	calculates and displays the rate per second for a field's value.
Round	rounds the field's values by the amount you specify in this column. A value in this column tells Adabas Review to take the actual field value and increment it by some value so that the result is evenly divisible by the "round" value.

 **To use the numeric field options**

1. For all options except Round, mark the appropriate column with an X and press ENTER.

Or:

For the Round option, type a number in the appropriate column and press ENTER.

For example, to round the Adabas duration up to .05 of a second, type in .05 in the Round column for the DURATION field.

Using the Report Processing Rules Screen

Report processing rules determine how field values are selected for your report. These rules restrict the accumulated data to certain values or conditions. For example, a processing rule can be written to restrict data collection to commands that return a nonzero response code.

 **To access the Report Processing Rules screen**

1. From the Edit Report screen, press PF10; or enter the command RULES on the command line.

The Report Processing Rules screen appears as shown in the following example:


```

20:38:29                A D A B A S  -  R E V I E W                2003-07-07
                        Report Processing Rules                    LOCL=00009

                        REPORT ONE

+-----+-----+-----+-----+
| Field   Op      Value                                     And/Or  |
+-----+-----+-----+-----+
| _____|_____|_____|_____|
| _____|_____|_____|_____|
| _____|_____|_____|_____|
| _____|_____|_____|_____|
| _____|_____|_____|_____|
| _____|_____|_____|_____|
| _____|_____|_____|_____|
| _____|_____|_____|_____|
| _____|_____|_____|_____|
| _____|_____|_____|_____|
+-----+-----+-----+-----+
                        Page 1

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Optns Exit          Save  Start  -      +          Flds  Menu
    
```

Note:

For each report, a total of twenty (20) lines are available for processing rules.

An explanation of the input fields on this screen is provided in the table below:

Heading	Explanation
Field	The name of the field for which the restriction applies. Note: Reporting fields STARTDATE and STARTTIME cannot be used in processing rules.
Op	The conditional operand that specifies how the restriction applies. The following operands may be used: = or EQ Equal to < or LT Less than > or GT Greater than : or NE Not equal to
Value	The field that allows you to restrict the information accumulated by the report to a subset of the values in a particular field. Values may be specified in several formats and may be single values or ranges.
And/Or	Specifies the Boolean operators AND or OR to define the relationship between multiple processing rules.

Guidelines for Specifying Values

The following guidelines describe acceptable ways to specify values in a processing rule:

- Depending on the field, a value may be numeric or alphanumeric.
- A value may be specified as a single value, a range of values, or a list of values.
- When specified as a list, values are enclosed in parentheses and separated by commas; when specified as a range, the two values are enclosed in parentheses and separated by a hyphen.
- For alphanumeric fields, an asterisk (*) may be used to indicate wildcard prefixing and suffixing (see examples below).
- Values may be expressed in decimal or hexadecimal format. If using hexadecimal format, the value is preceded by an "X" and enclosed in single quotes.
- The length to be compared in the rule is taken from the field length, not the length of the rule value.
- When using a wildcard rule value, the length to be compared in the rule is taken from the length of the rule value.
- Rules cannot be specified for Adabas Buffer Segments fields such as VBSEG01. Use the actual buffer fields instead of the segment fields.

Example Processing Rules

The following table shows examples of processing rules:

Example	Explanation
RSP>0	Single numeric value; response code greater than zero.
CMDNAME=FIN	Single alphanumeric value; command name equal to FIN.
FNR EQ (10-50)	Numeric range value; file number equals 10 to 50.
TRANSID=(BAT1,BAT2,BAT3)	Alphanumeric list of values; transaction ID equal to BAT1, BAT2, or BAT3.
VMID=T* CALLTYPE=S*	Use of wildcard suffixing; all VM user IDs beginning with "T"; all trigger and stored procedure calls.
JOBNAME=*TEST	Use of wildcard prefixing; all job names ending in "TEST".
ACBUSER EQ X'00370014'	Use of hexadecimal format; ACBUSER equal to the hexadecimal value 00370014.

Entering Processing Rules

To complete the Report Processing Rules screen

1. If you know which field or fields you plan to use, enter them directly on the screen in the Field column.
2. To choose fields using the field selection screens, press PF11 or enter the FLDS or LF command on the command line.

Refer to the section *Using the Field Selection Screens* for more information.

3. Enter the appropriate operand, using the guidelines in the tables above.
4. Enter the appropriate value, using the guidelines and table above.

Using the Report Options Screen

Report options describe additional processing aspects of the report; such as, whether it is a detail or summary report, whether it will perform physical command logging, and whether the data it collects will be written to the Adabas Review repository and stored as history data.

Adabas Review is delivered with report options defaults:

- You can modify these defaults for all subsequent reports; or
- You can modify the default values for a particular report, either new or existing.

The Report Options screen lists the default settings for each option; changes may be made directly on this screen.

```

19:30:50          ***** R E V I E W *****          2003-07-07
                  Report Options For: REPORT ONE          LOCL=00009

+----- Report -----+----- Logging -----+----- History-----+
| Detail/Sum ..... S   | Log ..... N       | History..... N   |
| AutoStart ..... N   | File ..... RVLOG  | History Int ...  |
| Break ..... Y       | Num of Logs ..... _2 | HISTORY DBID... _222 |
| Wrapping ..... N   | Log Size ..... 99999 | HISTORY FNR.... _22 |
| Print ..... Y       | User Exit ... _____ | History SVC..... 237 |
| Rstrt/Intrvl Y _____ |                      |                      |
| Max Restarts: 999999 |                      |                      |
| Max K ..... _16    |          Buffers to Log          |                      |
| ADALimit ..... _1  | -----+----- | Detail Exit.._____ |
| Display By .. SORTED | CB: Y   FB: Y   SB: Y | Summary Exit:_____ |
| Entries ..... 999999 | RB: Y   VB: Y   IB: Y | Cmd .... CL Sum.... N |
| Limit ..... 99999999 | IO: Y   EX1: N  EX2: N |                      |
| Page/Line... _55 / 133 |                      |                      |
+-----+-----+-----+

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help           Exit           Accpt           Dflts           Menu

```

For detailed information about the parameters on the Report Options screen, see section *Report Option Parameters*.

Modifying Report Defaults

Adabas Review allows you to modify and save the default report options settings.

After the report options have been modified, all new reports will have report options that default to the new settings. This will affect all new reports created by any user.

 **To modify the report default settings**

1. Create a new empty report by entering ER on the Adabas Review command line.
2. Press PF2 or enter the command OPTNS on the command line to display the Report Options screen.
3. Make any desired changes.
4. Press PF9 (Dflts) to save the modifications.

You are returned to the Edit Report screen.

Editing Options for a Particular Report

 **To change the options for a particular report**

1. Create a new empty report or access an existing report by entering ER on the Adabas Review command line.
2. Press PF2 or enter the command OPTNS on the command line to display the Report Options screen.
3. Enter the changes directly on the Report Options screen.
4. After completing your changes, press PF6 or enter the ACCPT command.

The accept command stores your selections temporarily while you continue working on your report.

You are returned to the Edit Report screen.