

Defining Adabas Review User Fields

The Adabas Review administrator can create up to five custom reporting fields. Portions of the command log and command log extension can be remapped using parameters to specify offsets and data types for these new fields.

This chapter covers the following topics that describe how to define custom reporting fields:

- Step 1. Set Parameters to Be Read at Adabas Review Startup
- Step 2. Modify the REVIEW-ADABAS-Vvrs -CLOG DDM
- Step 3. Modify the Adabas Review FDT
- Example of Defining Adabas Review User Fields

Step 1. Set Parameters to Be Read at Adabas Review Startup

Field definition parameters are read from the RVUFLD data set at startup. Sample parameters are provided in member RVUFLD in the Adabas Review source library.

Rules of Syntax

```

NAME = USERFLD n
  CALC = { YES | NO }
  DISPLEN = output-data-length
  HEADER = output-field-name
  INTYPE= { C | B | T }
  LEN = length
  {
    FIELD = ffffff+oo
    EXTOFF = ????
    OFFSET = offset-into-clog
  }
  OUTTYPE= { C | N | H | T | G }

```

- Each field is defined by a NAME statement followed by field description statements.
- Possible values for the NAME statement are USERFLD1 through USERFLD5.

Keywords

Parameter	Values	Description
NAME	USERFLD1 through USERFLD5	Field name that can be used in a report definition. .
CALC	YES NO	Whether the field can be used for SUM, AVG, PCT, RATE.
DISPLEN	numeric	Length of the data when printed or displayed.
EXTOFF	????	????
FIELD	Two parameter values: <ul style="list-style-type: none"> 8-byte alphanumeric Adabas Review field name (depicted by <i>ffffff</i> in the syntax) or RDBLKUSR. Optional 2-byte numeric starting offset in the named field (depicted by <i>oo</i> in the syntax) 	<p>The name of an Adabas Review field, followed immediately by an optional plus sign (+) and field offset value. No spaces should be specified around the plus sign.</p> <p>This is useful when you want to obtain the contents of a user field from part of the contents of an existing Adabas Review field.</p> <p>This parameter is mutually exclusive with the OFFSET parameter.</p> <p>The RDBLKUSR user field name is reserved for use with the REVUEX1 user exit.</p>
HEADER	alphanumeric, 10-byte maximum	Title of the field when printed or displayed.
INTYPE	C (character) B (binary) T (time)	Format of the data in the Adabas Review internal command log record, LORECR.
LEN	numeric	Length of the field in the Adabas Review internal command log record, LORECR.
OFFSET	numeric in decimal, not hex	<p>Offset into the Adabas Review internal command log record, LORECR.</p> <p>This parameter is mutually exclusive with the FIELD parameter.</p>
OUTTYPE	C (character) N (numeric) H (hexadecimal) T (time) G (Gregorian date)	Format of the data when printed or displayed.

The FIELD, EXTOFF, and OFFSET parameters are mutually exclusive in a user field definition; only one of them may be specified. For example, suppose you wanted to define user field USERFLD1 as the last eight bytes of the communication ID. The communication ID can be accessed at either offset 88 (X'58') of LORECR or as the last eight bytes of the Adabas Review USERID field (which is 28 bytes long). You could define USERFLD1 in either of the following ways:

- Using the OFFSET parameter: NAME=USERFLD1 , OFFSET=88
- Using the FIELD parameter: NAME=USERFLD1 , FIELD=USERID+20

Step 2. Modify the REVIEW-ADABAS-Vvrs -CLOG DDM

The data types and lengths of each user field definition must be reflected in the DDM.

▶ To modify the DDM:

1. Enter the Natural SYSDDM facility.
2. Edit the DDM

```
REVIEW-ADABAS-Vvrs -CLOG
```

Be sure to place "Y" in the REPLACE field.

3. Scan for user fields by entering on the command line

```
SC USER-FIELD
```

4. Modify the length and type of the fields

```
USER-FIELDn
```

5. Press PF11 to catalog the DDM.

The user fields you have defined are now ready to be used.

▶ To access the new fields either online or in batch:

1. Use the field names USERFLD1 through USERFLD5 as you would any other Adabas Review reporting field.

Important:

Before changing user-defined fields, carefully consider the impact on existing reports and data. For example, if you were to create history data for a particular report that uses USERFLD1 and then you change USERFLD1 to represent different data, incorrect data would be added to the history report the next time the report stored history data.

Step 3. Modify the Adabas Review FDT

Modify the Adabas Review FDT.

Example of Defining Adabas Review User Fields

Suppose you wanted to display the last eight characters of the 28-byte communication ID in a user field. You would first determine that communication ID is stored in LORECR field LOX1CMID at offset X'44' or a decimal offset of 68. So the offset of the last eight characters of the communication ID is at decimal offset 88.

The specification for the user field, USERFLD1, would look like this:

```

NAME=USERFLD1
LEN=8
INTYPE=C
OUTTYPE=C
OFFSET=88
*-----*
*      OFFSET=X'58' = last 8 bytes of the communication ID in LORECR *
*-----*
DISPLEN=8
HEADER=LOX1CMID
CALC=NO
    
```

The specification for a report using the user field might look like this:

11:50:48	A D A B A S - R E V I E W							2009-05-26	
	Edit Report							LOCL=00204	
Detail/Summary: S									
Report Name: RVUFLD45 - TEST OF LOX1CMID_____					DBID to Monitor: __204				
+-----+									
! Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round	!
!-----!									
! SEQUENCE	_10	-	-	-	-	-	-	_____	!
! DATE_____	_20	-	-	-	-	-	-	_____	!
! TIME_____	_30	-	-	-	-	-	-	_____	!
! CMD_____	_40	-	-	-	-	-	-	_____	!
! USERFLD1	_50	-	-	-	-	-	-	_____	!

The specification for the DDM might look like this:

11:43:22	***** Edit DDM (ADA) *****					2009-05-26	
DDM Name REVIEW-ADABAS-V451-CLOG	Def.Seq.		DBID	255 FNR	241		
Command							
I T L DB Name	F		Leng S D		Remark		

S	3	EH USER-FIELD1	A		8	(1:7)	

The report might look like this:

11:49:23				RVUFLD45 - TEST OF LOX1CMID		2009-05-26
	11:49:16	2009-05-26	Thru	11:49:23	2009-05-26	LOCL=00204
						Page: 1
Sequence	Date	Time	Cmd	LOX1CMID		
-----	-----	-----	---	-----		
4756	2009-05-26	11:49:16	V4	TSU23242		
4757	2009-05-26	11:49:16	V4	TSU23242		
4758	2009-05-26	11:49:16	S1	TSU23242		