Printing Long Descriptions

Overview

Many MAXIMO columns have long descriptions. This section reviews how long description text must be accessed and printed in an SQR report.

Join

Long description data is kept in the LONGDESCRIPTION table. To print a long description, you have to *join* the LONGDESCRIPTION table with the WORKORDER table by the *LDKEY* field. In SQR, you can call a procedure to read and print the long description text, as long as you pass the Long Description Key [LDKEY] to the new procedure.

The Structure of the LD Table

Here is a snapshot of a part of the LONGDESCRIPTION table:

LDKEY	LDOWNERTABLE	LDOWNERCOL	LDTEXT	ROWSTAMP
664597054	REPORT	DESCRIPTION	Displays each measurement point and the history of measurements taken for	5797
362067198	SERVICECONTRACT	LDKEY	VENDOR CONTRACTED TO INSPECT PUMP ANNUALLY AS PART OF	5798
452179199	SERVICECONTRACT	LDKEY	PERFORM REGULARLY SCHEDULED MAINTENANCE AS PER B&W 50	5799
645673532	JOBOPERATION	DESCRIPTION	INSPECT ON/OFF AND LIMIT SWITCHES	5800
645674081	JOBOPERATION	DESCRIPTION	...FOR PROPER TENSION	5801
648694629	JOBOPERATION	DESCRIPTION	Record highest and lowest cell. (1.250 or above: full charge; 1.225 to 1.250: 1/2	5802
649084271	JOBOPERATION	DESCRIPTION	Record highest and lowest cell. (1.250 or above: full charge; 1.225 to 1.250: 1/2	5803
2113784612	WPOPERATION	DESCRIPTION	Record highest and lowest cell. (1.250 or above: full charge; 1.225 to 1.250: 1/2	5804
320129828	WPOPERATION	DESCRIPTION	INSPECT ON/OFF AND LIMIT SWITCHES	5805
212060964	WPOPERATION	DESCRIPTION	...FOR PROPER TENSION	5806
334705886	WPOPERATION	DESCRIPTION	INSPECT ON/OFF AND LIMIT SWITCHES	5807
424359134	WPOPERATION	DESCRIPTION	...FOR PROPER TENSION	5808
1187007244	POLINE	DESCRIPTION	Provide 4 Electricians for time period 11/1/95 12/1/95. Standard Rate Sheet	5809
1425166136	LABOR	NAME	Medical: Diabetic	5810
1425166136	LABOR	SKILL	- Chainwash machine overhaul. - Electricians Class 1 license. - Motor Vehical	5811
1461368178	WORKORDER	DESCRIPTION	Check with Packaging Dept. Supervisor before beginning work.	5812
1679084325	WPOPERATION	DESCRIPTION	Record highest and lowest cell. (1.250 or above: full charge; 1.225 to 1.250: 1/2	5813
248526044	WPOPERATION	DESCRIPTION	INSPECT ON/OFF AND LIMIT SWITCHES	5814
335033564	WPOPERATION	DESCRIPTION	...FOR PROPER TENSION	5815
809638201	CLASSSTRUCTURE	DESCRIPTION	An abrasive coated material shaped into a continuous belt form and used to	73519
809638202	CLASSSTRUCTURE	DESCRIPTION	An abrasive coated material shaped into a flexible or semiflexible disc, that is	73520

Joining to the LD Table--Pseudocode

The information you are interested is in the LDTEXT column. In order to find the correct long description for your work order, you have to select the `LDTEXT from the LONGDESCRIPTION table where the LDOWNERTABLE = 'WORKORDER' and the LDOWNERCOL= 'DESCRIPTION' and the LDKEY =` the <ldkey> of your work order.

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Procedure Summary

The following paragraphs describe the procedure for selecting and printing a long description:

Step	Code

Select the LDKEY from the primary table. SQR automatically assigns a column variable name to it as &ldkey	`Begin-select`
	`.`
	`ldkey`

Move the `&variable` to a `$variable` in order to use it as an argument for a procedure. You can only pass $`variables` and #`variables` to a procedure, not &*variables*	`Begin-select`
	`.`
	`ldkey`
	`  Move &ldkey to $ldkey`

Test if the `$ldkey` is not null and if so, call a procedure and pass the `$variable` to the procedure.	`Begin-select`
	`….`
	`ldkey`
	`  Move &ldkey to $ldkey`
	`  If $ldkey != ' ' ! Test to make sure it is not null`
	`  Do Longdesc ($ldkey) !Call longdesc procedure`
	`  End if`

Build the procedure to select and print the long description	`begin-procedure`
	`longdesc($ldkey )`
	`begin-select`
	`ldtext`
	`  PRINT &ldtext (+2,{Col3})`
	`  from longdescription`
	`  where ldkey = $ldkey`
	`  and ldownertable = 'WORKORDER'`
	`  and ldownercol = 'DESCRIPTION'`
	`END-SELECT`

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Procedure

This exercise will walk you through the procedure to select and print the work order long description for the WOCOST report.

Step	Action

1	In WOCOST.SQR, add the column `ldkey` to the select statement of the first procedure.
	`supervisor`
	`let $stat_supv = &status || '/' || &supervisor`
	`print $stat_supv (,{col7})`
	`ldkey`
	`from workorder`

2	Move the variable &ldkey to $ldkey `Move &ldkey to $ldkey`

3	Call a new procedure named `Longdesc` *if* the value of `$ldkey` is not null. Use two single quotes for null.
	Then pass the `$ldkey` variable to the new procedure.
	`ldkey`
	`Move &ldkey to $ldkey`
	`If $ldkey != ' '`
	`Do Longdesc ($ldkey)`
	`End-if`

4	Build the `longdesc` procedure to select and print the long description text in Column 3:
	`begin-procedure longdesc($ldkey )`
	`begin-select`
	`ldtext`
	`print &ldtext (+2,{Col3})`
	`from longdescription`
	`where ldkey = $ldkey`
	`and ldownertable = 'WORKORDER'`
	`and ldownercol = 'DESCRIPTION'`
	`end-select`
	`end-procedure`

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Printing Long Descriptions continued

Procedure continued

Step	Action
4	Note the `where` statement: It selects the `ldtext` from LONGDESCRIPTION *where* the ldkey matches, *and* the LDOWNERTABLE = 'WORKORDER' *and* the LDOWNERCOL = 'DESCRIPTION'

In most cases you should only have to provide the LDKEY.

But the LDKEY is not unique. Only the combination of LDKEY together with LDOWNERTABLE and LDOWNERCOL is unique. It is therefore unlikely, but possible, to have duplicate LDKEYS.

Furthermore, it is possible to have more than one long description field for an application.

You should always nominate the LDOWNERTABLE *and* the LDOWNERCOL *and* the LDKEY when selecting and printing a long description.

Step	Action
5	Use a `wrap` command to print the long description 40 characters wide and 3 lines deep. `PRINT &ldtext (+2,{Col3}) wrap 40 3`
6	Enhance the `wrap` command to strip out spaces and wrap on ASCCII character <10> (the carriage return) `PRINT &ldtext (+2,{Col3}) wrap 40 3` **`strip=<13> on = <10>`**

7	Use a smaller font for the long description text
	`alter-printer font=4 point-size = 8 !Print small`
	`PRINT &ldtext (+2,{Col3}) wrap 40 3 strip=<13> on=<10>`

8	Test the report output.

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More Enhancements

Here is a way to dynamically calculate the number of lines to use!

Take the total length of the long description text and divide it by the width you want to print, say 60 char wide. Add a couple of lines equal to the maximum width to catch the last line.

```
BEGIN-SELECT
ldtext
    LET #ldlines = (length(&ldtext) / 60) +60
```

Then, in the print statement, use #ldlines as the depth parameter:

```
print &ldtext (+1,{Col3})  wrap 60 #ldlines strip=<13> on=<10>
```


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