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Trouble Shooting Printers and Printing in Oracle Applications Release 11i

This document explains how Oracle Applications handles printing instructions and the major relationships between printing functions, related forms, and Oracle Applications.

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EXAMPLE USING PRINTER TYPE HPLJ4

- Printer type – The kind of printer you have. It can be HPLJ4, HPLJ5SI, etc. A printer type has a printer driver associated with it that prints a specific style.
- A print style tells the printer how the printed output should look. In the print style screen, define rows and columns.
 - No of lines per page*
 - Width of each line*
- A printer driver delivers commands that tell the printer how to output the specified print style. In the printer driver screen, define initialization and reset strings.
 - Set printing orientation*
 - Reset printer for next job.*

PRINT STYLE	SRW DRIVER	PRINTER DRIVER	SRW DRIVER
LANDSCAPE	L	LANDSCAPEHPLJ4	HPL
PORTRAIT	P	PORTRAITHPLJ4	HPP
LANDWIDE	W	LANDWIDEHPLJ4	HPW

Oracle Reports and report generation

- Instructions **within the output file** are defined by values in an SRW driver file.
 - Spacing in report output*
- Instructions that are issued **before** the output file is to be printed or **after** the output file is printed must be entered in an Oracle Applications printer driver's initialization or reset strings, which are defined by the Printer Drivers form.
 - Page Orientation*
 - No of lines per inch*

Style SRW Drivers and Printer SRW Drivers

- When the report is not to be printed (number of copies = 0 and the target printer field is blank), Oracle Reports uses the SRW driver named by the print style in the Print Styles form.
- When the report is to be printed (number of copies > 0) Oracle Reports uses the SRW driver named by the Oracle Applications printer driver in the Printer Drivers form.



SEQUENCE OF PRINTING EVENTS

- Run Report ‘XYZ’ from the Run Reports Form.
- Submit request – (Landscape)
- Concurrent Manager reads request.
- Concurrent Manager checks Report Options
 - If number of copies = 0, then
 - Use Print Style SRW Driver. (L)
 - Else
 - Use Printer Driver SRW Driver (HPL)
- Concurrent Manager takes output format information garnered from previous step and adds printer driver information (if the output is to be printed out)
 - Prepend initialization string
 - Append reset string
- All this information is sent to Oracle Reports along with details about destination printer, number of copies, etc.

Oracle Reports and Applications Printing

Text, document, and printer formatting instructions for printing a file generated by Oracle Reports are summarized in the table below.

Oracle Applications Formatting Instructions

Instruction	Explanation	Mechanism	Form
Format Text	Bold, underline, page breaks.	SRW driver control characters	Print Styles (printer not associated with concurrent request; i.e., copies = 0, printer field blank)
			Printer Drivers (printer associated with concurrent request)
Format Document	Width and height of report	Print Style number of columns and rows	Print Styles
Format Printer	Tell printer to print portrait or landscape, reset itself, etc.	Printer Driver initialization and reset strings	Printer Drivers

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CREATING CUSTOM SRW DRIVERS

SRW drivers are read by Oracle Reports when a report is generated, and insert control characters that tell the destination printer where to set page breaks, and which characters to format as bold or underlined.

An SRW driver is only used during the generation of a report. A printer driver is used when the completed output file is sent to the printer.

Location and Content of SRW Driver Files

SRW driver files reside in \$FND_TOP/reports, and have the file extension ".prt". The predefined SRW file names are:

- A.prt ?
- P.prt Portrait
- L.prt Landscape
- PD.prt Portrait Dynamic
- W.prt Landwide

Creating a Custom SRW Driver

The SRW driver files can be customized as required.

If you need to change formatting control characters for page breaks, underlined text, or bold text in Oracle Reports:

- Copy the .prt file (SRW driver) and rename the copy to filename.bak.
- Modify the original file with new control characters.
- Oracle Reports will use the new driver if it is associated with a print style and/or printer driver definition.

Attention: Copy the SRW driver (.prt file) and rename it before starting any text editing.

SAMPLE .PRT FILE

```
HPL.prt =  
printer "HPLJ Landscape"  
  
height 57  
width 132  
  
between pages control(L)  
return control(M)  
linefeed control(J)  
  
code "bold on"       esc "(s7B"
```



```
code "bold off"      esc "(s0B"  
code "underline on"  esc "&d0D"  
code "underline off" esc "&d@"
```

SAMPLE PRINTER DRIVER

Printer Driver Name= LANDSCAPEHPLJ4

SRW Driver = HPL

Initialization = /eE/e(s0P/e(8U/e&11O/e&18D/e&k4S/e&k2G

USEFUL ESCAPE CODES

Escape Code: -----	Description: -----
/e&k2G	end-of-line termination sequence for HPLJ4's and compatibles
/e&k3G	end-of-line termination sequence for HPLJ5's and compatibles
/e&11O	Landscape Orientation
/e&10O	Portrait Orientation
/e(s0P	Fixed Primary Spacing
/e&k0S	10.0 chars/inch
/e&k2S	Compressed Printing (16.5-16.7 chars/inch)
/e&k4S	Elite 12.0
/e(8U	Roman-8 Font
/e&l#D	lines per inch

(e.g. /e&18D = 8 lines per inch. The following numbers for '#' are valid: 1,2,3,4,6,8,12,16,24,48)

COMMON PRINTER ISSUES

- Report output is double spaced.
In the appropriate printer SRW driver file (HPL for Landscape), identify the return line.
If it is set to return control(M)
Change it to return ""
This will prevent the SRW driver from adding an extra line at the end of each line.
- Only Report Title prints, actual output does not print. However, file output is fine.



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Sign on as System Administrator Responsibility.

Navigate to the Printer Driver Define Form.

Append /e&k2G to the initialization string for HPLJ4

Append /e&k3G to the initialization string for HPLJ5SI

Bounce Concurrent Manager.