

Customer Tips

dc04cc0342
November 9, 2004

... for the user

Using a Model File for a SCO Remote Print Queue

Introduction

When the lp command is used to print an ascii text file, you can insert PCL print code to format the print job. To avoid having to concatenate a file containing the PCL commands to the print job then piping the result to lp, use the method described here that requires only a single lp command. This document contains the procedure to create a PCL print filter for a remote print queue in SCO Openserver 5.x. Two activities are required to create a remote (lpr/lpd) print queue.

1. Create a "print filter" in SCO, which is associated with the print queue.
2. Edit the print filter to produce the desired print format.

If you use a third-party printing application such as LP Plus, create a remote print queue according to the product instructions and acquire the appropriate license, if any.

Creating a Print Filter

Use scoadmin or rlpconf to create a remote print queue. If needed, you can find the details of SCO print queue creation in the Customer Tip dc99cc18.

1. In scoadmin, select **System Administration > Printers > Printer Manager**. Select **Printer > Add Remote > Unix**.

2. In the Add Remote Printer window, enter the following information:

Host: hostname (where hostname is the Xerox printer's hostname from the /etc/hosts file or DNS). You should be able to successfully ping this name.

Printer: name of the queue you are creating, for example **xmit1**.

Turn **OFF** (disable) **Remote Extended Protocol**.

Click **OK** to complete the form and exit scoadmin.

3. Edit the file /etc/printcap:

```
vi /etc/printcap
```

Delete **ex:** from the printcap entry (if it exists) for the xmit1 queue.

Change **rp=xmit1** to **rp=lp** for the xmit1 queue.

4. Save and exit the vi editor.

5. Create a file called **xeroxpcl** in the model directory using the vi editor:

```
vi /var/spool/lp/model/xeroxpcl
```

This document applies to these **Xerox** products:

x	WC Color 40/32
X	WC Pro 90/75/65
X	WC Pro 55/45/35
X	WC Basic 55/45/35
X	DC 555/545/535
X	DC 490/480/470/460
X	DC 440/432/425/420
x	DC 340/332
X	DC 265/255/240
X	DC 230/220
X	DCCS 50

6. Insert PCL code as needed. The first line below enables duplex. The second line prints the output in landscape orientation. Additional commands are available in Customer Tip dc00cc0137 *Formatting Condensed Print for the Document Centre* or refer to the *PCL 5 Printer Language Technical Reference Manual* by HP. Press Ctrl+v then the Escape key to enter the escape character in the vi editor. The Escape character in the vi editor appears as ^[.

```
^[&11S  
^[&11O
```

7. Create another file in the model directory called **xrxfilter** using the vi editor:
`vi /var/spool/lp/model/xrxfilter`

8. Insert the following line in the new file:

```
/bin/cat /var/spool/lp/model/xerospcl $1 | lp -s -d xmit1
```

Include `lp -s` to suppress lp messages such as “request id is.... This is helpful when using model files in SCO.

IMPORTANT: Make sure the new files have the same rights and ownership as other files in the model directory.

9. Create another remote print queue called **xeroxwcp** using the `lpadmin` command:

```
/usr/lib/lpadmin -p xeroxwcp -m xrxfilter -v /dev/null
```

`xeroxwcp` is the queue where you send jobs that contain the lp command.

10. Enable the new `xeroxwcp` queue using the `enable` and `accept` commands:

```
/usr/lib/accept xeroxwcp  
enable xeroxwcp
```

Inserting PJP Commands

You can also insert PJP commands into `var/spool/model/xerospcl`. The PJP comments shown in the following example are interpreted as Xerox commands.

```
^[%-2345X@PJP JOB  
@PJP COMMENT XRXbegin  
@PJP COMMENT OID_ATT_DEFAULT_MEDIUM_TYPE "Punched";  
@PJP COMMENT XRXend  
^[E^[&11S^[&11O
```

If you concatenate the commands above, a blank line is inserted at the top of the page. To avoid the blank line and comply with strict lines per page requirements, modify `xrxfilter` (described in step 7 in the previous section). Change:

```
/bin/cat /var/spool/lp/model/xerospcl $1 | lp -s -d xmit1
```

to:

```
shift; shift; shift; shift; shift  
MODEL=`cat /var/spool/lp/model/xerospcl`  
PFILE=`cat $*`  
echo "$MODEL" "$PFILE" | lp -s -d xmit1
```

Note that a command is surrounded by accent marks (``) not single quote marks ('). For example: ``cat /var/spool/lp/model/xerospcl``

Testing

1. Test the queue operation by using the `lp` command to print the `/etc/hosts` file:
`lp -d xeroxwcp /etc/hosts`
2. The `/etc/hosts` file prints to the remote queue duplexed (if it is more than 1 page) and landscape, and/or formatted with other PCL code you put into `/var/spool/model/xeroxpcl`.

Useful Print Queue Commands

To check the print queue status of all print queues use **lpstat -t**

To stop the print service use **lpshut**

To start/restart the print service use **lpsched**

To find out if `lpd` and `lpsched` are running, use **ps -ef | grep lp**

Additional Information

Xerox Customer Service welcomes feedback on all documentation - send feedback via e-mail to: USA.DSSC.Doc.Feedback@mc.usa.xerox.com.

You can reach Xerox Customer Support at 1-800-821-2797 (USA), TTY 1-800-855-2880 or at <http://www.xerox.com>.

Other Tips about Xerox multifunction devices are available at the following URL: <http://www.office.xerox.com/support/dctips/dctips.html>.

XEROX®, The Document Company®, the digital X®, and all Xerox product names are trademarks of XEROX CORPORATION. Other trademarks belong to their respective owners.

Copyright © XEROX CORPORATION 2004. All Rights Reserved.

