

Adding a Printer to VCL

VMS Version 7.1-2

The following is an example. This assumes you are using pre-existing color printer CP0 to print VCL algorithms.

Note: this printer needs PCL5 language support.

Enabling the LPD Server

The first part of this user note explains how to enable the LPD server.

1. At the VMS command prompt enter the following command, where XXX is your site designation.

```
XXXVSA$ @sys$manager:ucx$config
```

This command will display the *Digital TCP/IP Services for OpenVMS Configuration Menu*.

2. From this menu select option 3 (Server Components) and press Enter.
3. From the Configurations Options Menu, select option 5 (LPR/LPD) and press Enter
4. In the LPD Server Configuration Menu, select option 1 (Enable service on this node) and press enter. You will see the following information on the screen

```
Creating LPD Service Entry
```

```
Creating SYS$SPECIFIC:[UCX_LPD]UCX$PRINTCAP.DAT file.
```

```
DIGITAL TCP/IP Services for OpenVMS supports Line Printer Daemon  
Protocol (see RFC 1179)
```

```
LPD requires the following:
```

- Name of the local queue
- Name of the remote queue
- Name of the remote host
- Spooling directory for the local queue

```
To add or delete printers in the UCX PRINTCAP database, use the  
$RUN SYS$SYSTEM:UCX$LPRSETUP command.
```

```
The LPD CLIENT is not enabled.
```

```
* Do you want to configure LPD CLIENT [NO] ? YES
```

5. To exit this menu, enter E or press the Enter key.
6. At the command prompt enter the following command to start the LPR/LPD service.

```
XXXVSA$ @sys$startup:ucx$lpd_startup
```

UCX Printer Setup Program

The following steps are used to start the Printer Setup Program.

1. At the command line, enter the following command to start the UCX printer setup program.

```
xxxvsa$ run sys$system:ucx$lprsetup
```

2. At the prompt, enter “add”, and follow the on-screen instructions.

Note: Pay attention to capitalization when entering printer names and synonyms.

```
Command < add delete view help exit >: add
Adding printer entry, type '?' for help.
Enter printer name to add : VCL_PRINTER
Enter the FULL name of one of the following printer types:
remote local : remote
Enter printer synonym: vcl_printer
Enter printer synonym: <press the enter key>
Enter full file specification for spool directory
SPOOLER DIRECTORY 'sd':[SYS$SPECIFIC:[UCX_LPD.VCL_PRINTER]] ? <press
the enter key>
Set LPD PrintServer extensions flag 'ps' [] ? <press the enter key>
Set remote system name 'rm' [] ? xxxcp0 <xxx is your site designation>
Set remote system printer name 'rp' [] ? vcl_printer
Set printer error log file 'lf' [SYS$SPECIFIC:[UCX_LPD]VCL_PRINTER.LOG]
? <press the enter key>
Enter the name of the printcap symbol you wish to modify. Other
valid entry is : 'q' to quit (no more changes)
The names of the printcap symbols are:
sd for the printer spool directory
lf for the printer error log file
lp for the name of the local printer
ps for the LPD PrintServer extensions flag
rm for the name of the remote host
rp for the name of the remote printer
fm for the printer form field
pa for the /PASSALL flag
nd for the /NODELETE flag
cr for the cr flag
```

```

p1-p8 for the /PARAMETER=(p1,...,p8) field
Enter symbol name: q
                Symbol  type  value
                -----  ----  -----
Error log file   : lf     STR   /SYS$SPECIFIC/UCX_LPD/VCL_PRINTER.LOG
Printer Queue   : lp     STR   VCL_PRINTER
PS extensions flag: ps     STR
Remote Host     : rm     STR   xxxcp0
Remote Printer  : rp     STR   vcl_printer
Spool Directory : sd     STR   /SYS$SPECIFIC/UCX_LPD/VCL_PRINTER
Are these the final values for printer VCL_PRINTER ? [y]
Adding comments to printcap file for new printer, type '?' for help.
Do you want to add comments to the printcap file [n] ? : <press the
enter key>
Do you want the queue to default to print flag pages [y] : n
Do you want this procedure to start the queue [n] : y
Creating execution queue: VCL_PRINTER
Updating UCX$LPD_STARTUP.COM
Updating UCX$LPD_SHUTDOWN.COM
*****
* UCX$LPD_STARTUP.COM      UCX$LPD_PRINTCAP      *
*   and   UCX$LPD_SHUTDOWN.COM                  *
*   have been updated for this printer          *
*                                                                 *
* Set up activity is complete for this printer*
*****
Command < add delete view help exit >: exit

```

Changing the Printer Owner

After this printer is created, you will need to change the owner of the printer to MISER. The following steps explain this procedure.

To change the owner of the printer

1. At the command prompt, enter the following command. This command will display the printer information for the printer you just created.

```
XXXVSA$ sh que vcl_printer/fu
```

```
Server queue VCL_PRINTER, idle, on XXXVSA::, mounted form DEFAULT
```

```
/BASE_PRIORITY=4 /DEFAULT=(FEED,FORM=DEFAULT) /OWNER=[1,4]
```

```
/PROCESSOR=UCX$LPD_SMB /PROTECTION=(S:M,O:D,G:R,W:S)
```

2. At the command prompt, enter the following commands to stop, start, and change ownership of the printer queue for the printer you just created.

```
XXXVSA$ stop/que/reset vcl_printer
```

```
XXXVSA$ INIT/que/start/on=XXXMVB::
```

```
VCL_PRINTER/processor=ucx$lpd_smb/owner=[41,1]/retain=error
```

```
_Queue:vcl_printer
```

```
XXXVSA$ sh que /fu vcl_printer
```

```
Server queue VCL_PRINTER, idle, on XXXMVB::, mounted form DEFAULT
```

```
/BASE_PRIORITY=4 /DEFAULT=(FEED,FORM=DEFAULT) /OWNER=[MISER,SYSTEM]
```

```
/PROCESSOR=UCX$LPD_SMB /PROTECTION=(S:M,O:D,G:R,W:S) /RETAIN=ERROR
```

Editing the windu.ini File

Next you will need to edit the windu.ini file to add two lines.

1. At the command prompt type the following command:

```
XXXVSA$ set def sr:[windu4]
```

```
XXXVSA$ dir *.ini
```

```
Directory _DKA0:[000000.WINDU4]
```

```
WINDU.INI;1
```

```
Total of 1 file.
```

2. At the command line, enter the following command to open the ini file in a text editor.

```
XXXVSA$ edit windu.ini
```

```
[windows]
```

```
...
```

```
[devices]
```

```
...
```

```
HP LaserJet 8000N PCL VCL_PRINTER=HP4M PCL5,VCL_PRINTER
```

```
[ports]
```

```
...
```

```
vcl_printer=print/queue=vcl_printer %s/passall/delete/name="%s"
```

```
FILE:=-
```

```
...
```

3. To distribute the file to other machines in the network enter the following commands

```
XXXVSA$ tools
```

```
XXXVSA$ net_dist windu.ini
```

```
%COPY-S-COPIED, _DKA0:[000000.WINDU4]WINDU.INI;2 copied to  
XXXVSA::_DKA0:[000000
```

```
.WINDU4]WINDU.INI;2 (22 blocks)
```

```
%COPY-S-COPIED, _DKA0:[000000.WINDU4]WINDU.INI;2 copied to  
XXXVS1::_DKA0:[000000
```

```
.WINDU4]WINDU.INI;2 (22 blocks)
```

```
%COPY-S-COPIED, _DKA0:[000000.WINDU4]WINDU.INI;2 copied to  
XXXVS2::_DKA0:[000000
```

```
.WINDU4]WINDU.INI;2 (22 blocks)
```

```
XXXVSA$ net_cmd del [users...]windu.ini.*
```

4. Log into XXXVSB, and repeat the steps to enable and start LPD server and re-initialize the `VCL_PRINTER` queue.
5. Test it. The printer list under the *Print* menu in VCL should now include `VCL_PRINTER`, select this to print.