

## Setting Up Okidata or Thermal Printers on JetDirect 170x Servers (Assumes HP-UX system and parallel interface)

### General For Both Printer Types

1. Set up /etc/hosts – For example: 10.1.10.45                      print2                      Tlr Vchr #3
2. Configure HP 170x JetDirect Server as follows:  
(Must change the IP address of the laptop to 192.0.0.x before connecting to the Jet Direct - Then connect using a crossover cable)

For initial configuration, open a command window: >telnet 192.0.0.192

	<b>Telnet Commands</b>
➤ nnn.nnn.nnn.nnn	/ to show configuration
➤ 255.255.255.0	ip:nnn.nnn.nnn.nnn
➤ Gateway if at branch	subnet-mask:255.255.255.0
➤ Disable DHCP	default-gw:nnn.nnn.nnn.nnn
➤ Disable ipx/spx	dhcp-config:0
➤ Disable Banner	ipx/spx:0
	banner:0
	quit    (To save and exit)

Following initial configuration using telnet, use HP Web Jetadmin (must be within same Class C IP address):

- Parallel Mode = Centronics
  - Parallel Handshaking = nACK & Busy
  - Status Page Lang = Text
  - Error Handling = Reboot without dump
  - Change IP and gateway if service location is other than current LAN
3. Connect server to network in service location and ping to test connectivity
  4. Run SAM to set up a remote jetdirect printer:  
(Printers & Plotters, LP Spooler, Printers & Plotters, File, Action, Add Network-Based Printer/Plotter, Add Printer/Plotter connected to HP JetDirect.) *Caution: this will stop spooler*
    - Select 3. Local Printer from Jetdirect Main Menu
    - Enter device name, eg. Print2
    - Select “0 - None of the above” - from printer type choices
    - Change printer name as desired, such as “netchk\_fs”
    - Change model script to “dumbplot”
    - “0” to save configuration
    - q to quit

### For Okidata 320 Check/Voucher Printers:

1. As a root user, copy over the new config file with an existing printer file:
  - `cd /etc/lp/interface/model.orig`
  - `disable <your_printer_name>`
  - `cp netchk_as netchk_fs` (overwrites newly created `_fs` with `_as`)
  - `enable <your_printer_name>`
2. Configure SET.PRINTER with new device in #15
3. If this is a check printer, make sure check signer is configured for parallel printing.
4. Initiate the printer and test it.

### For Epson Thermal Voucher Printer:

Note 1: These instructions are valid only for thermal printers using external JetDirect print servers on HP-UX systems.

Note 2: HP-UX commands are noted in red. They need to be executed from a Unix prompt, logged in as root.

1. Ensure that the new printer is disabled (e.g. `# disable <your_printer_name>`)
2. Overwrite the script that was placed in `/etc/lp/interface/model.orig` with the attached script. The script has been bundled up as a tar file to help protect some of the special control codes in the script. FTP it from your PC to the HP host in BINARY mode to `/etc/lp/interface/model.orig`.
3. Log into HP-UX as root, and un-tar the file using the command:  
`# cd /etc/lp/interface/model.orig`  
`# tar xf filter.jetdirect.tar`  
`# cp filter.jetdirect <your_printer_name>`

where `<your_printer_name>` is the name of the print queue you created above.

4. Double-check the file ownership and permissions of the script. The owner should be `lp`, the group should be `bin`, with `rwxr-xr-x` permissions:  
`# cd /etc/lp/interface/model.orig`  
`# ls -l <your_printer_name>`  
`-rwxr-xr-x 1 lp bin 819 Nov 4 22:13 <your_printer_name>`

Note that the size (819) and the date/time (Nov 4 22:13) in the above example may be different on your system.

If the ownership or permissions are not correct, use the following commands to correct it:

```
# chown lp:bin <your_printer_name>
# chmod 755 <your_printer_name>
```

5. Make sure the printer is enabled: (e.g. `# enable <your_printer_name>`)
6. Create the printer in Ultrafis. Create a printer type called THERMAL by simply entering THERMAL in PRINTER.CONTROL inputting in a tilde (~) in line 3 and a ^012 (don't forget the 0) in line 7.

7. Configure SET.PRINTER as follows:

```
YOLOTRAIN SET.PRINTER  SETUP TERMINAL PRINTER DETAILS
```

```
0= Enter Printer Function VOUCHER
= Enter Terminal Number of Printer 32 <your_name>
1 Description of Printer    <as_desired>
2= Printer Type            THERMAL
3= Standard Printing Pitch    12
4= Standard Lines per Inch    6          18 MICR Alignment
5 Form version number        2          Vertical
6 Document Width            80          Horizontal
7 Paper Type                NCR
8 Print Mail Address Only    N/A          19 Disable Phantom N
9 Disclose all terms as Monthly N/A        20 FORMPORT Settings
10 Institution Name on Voucher N          N/A
11 Enter Factor for Tearoff    0
12=Form Length in inches      3.67
13=Terminal Type              N/A
14=Marketing Message Number
15 Destination Printer Queue  AT <your_printer_name>
16 Print Operator Name on Receipt
17 Number of blank lines required above name/address for vouchers 3
```

Enter Field Number, Field Number Range, ALL or Save

8. Initialize the printer in Ultrafis and print a test voucher.