

# Spotline Monitor, Printer (s), Cash Drawer, and Display pole Setup for Ethernet Locations

**BEFORE YOU START YOUR SETUP, PLEASE MAKE SURE THAT ALL WIRING IS COMPLETED!**

From the **Main menu >Systems Administration >System Configuration Menu >Workstation Number Assignment**. This is where you will setup workstation addresses in your ABCS Software. This area is sometimes referenced as "termdevs". Below is an example of what you should see when You are in this area of the software. This is our " Example #1"

<u>T No</u>	<u>Device Name</u>	<u>T No</u>	<u>Device Name</u>
1:	spot1.1 (1 workstation with one screen)	17:	spot6.8 (same workstation 8th Session)
2:	spot2.1 (1 workstation with one screen)	18:	spot7.1 (same workstation 1st Session)
3:	spot3.1 " "	19:	spot7.2 (same workstation 2nd Session)
4:	spot4.1 " "	20:	spot7.3 (same workstation 3rd Session)
5:	spot5.1 " "	21:	spot7.4 (same workstation 4th Session)
6:	blank (single <b>expansion</b> ports)	22:	spot7.5 (same workstation 5th Session)
7:	blank (single <b>expansion</b> ports)	23:	spot7.6 (same workstation 6th Session)
8:	blank (single <b>expansion</b> ports)	24:	spot7.7 (same workstation 7th Session)
9:	blank (single <b>expansion</b> ports)	25:	spot7.8 (same workstation 8th Session)
10:	spot6.1 (WS # workstation 1st Session)	26:	tcsx1.1 ( <b>multi-screen</b> expansion port)
11:	spot6.2 (same workstation 2nd Session)	27:	tcsx1.2 "
12:	spot6.3 (same workstation 3rd Session)	28:	tcsx1.3 "
13:	spot6.4 (same workstation 4th Session)	29:	tcsx1.4 "
14:	spot6.5 (same workstation 5th Session)	30:	tcsx1.5 "
15:	spot6.6 (same workstation 6th Session)	31:	tcsx1.6 "
16:	spot6.7 (same workstation 7th Session)	32:	tcsx1.7 "

Our Example (above) is using a company called "**Test Lumber & Hardware**". This company has 7 Spotline's and the console Monitor. This store has 5 spotline workstations that are using 1 screen (session) each (T1-T5), and 2 spotlines workstations that are using 8 screens (T10-T25) each. We have also allocated 4 additional "**expansion**" ports (T No's 6-9), that the owner may want to add in the future. In T26-T33 we have already set up the file for a new **TCSX** that has not arrived yet. In our example below, lines T34-T49 have been setup with the intent of using **Digiboard Serial Devices**. Note the upper case entry for line T33. This has been setup with the intent of using a Dial out modem device.

<u>T No</u>	<u>Device Name</u>	<u>T No</u>	<u>Device Name</u>
33:	/dev/ttyA01	49:	/dev/ttya16
34:	/dev/ttya01	50:	"
35:	/dev/ttya02	51:	"
36:	/dev/ttya03	52:	
37:	/dev/ttya04	53:	
38:	/dev/ttya05	54:	
39:	/dev/ttya06	55:	
40:	/dev/ttya07	56:	
41:	/dev/ttya08	57:	
42:	/dev/ttya09	58:	
43:	/dev/ttya10	59:	
44:	/dev/ttya11	60:	
45:	/dev/ttya12	61:	
46:	/dev/ttya13	62:	
47:	/dev/ttya14	63:	
48:	/dev/ttya15	64:	

**NOTE**  
**BEFORE YOU CONTINUE, YOU MUST RE-NAME YOUR**  
**"UNIX" CPU WITH THE APPROPRIATE CUSTOMERS NAME.**  
 EXAMPLE: WHITE LUMBER CO. WOULD/ OR MIGHT BE "whitelbr"  
**YOU ENCOURAGE YOU TO MAKE THESE CHANGES THROUGH THE**  
**"SYSUT" MENU, UNDER "SYSTEM".**

Next.... **Network Configuration!**

1. From the prompt type **# netconfig** (then hit your enter key)
2. Select the option "**Hardware**"
3. You should see an option "**Add Lan Adapter**", once you have selected this option, the system "normally" would autodetect the network card. However, if it doesn't find the proper Adapter, please select the right adapter "manually". Our typical adapter is an "Intel Either Express Pro 100B/Pro 100 Lan Adapter. Consult your Hardware Manager if you are having a problem in this area.
4. Now you need to tab to the "**Advanced**" option.  
To properly answer the next question you will need to know what ethernet hubs and switches that you intend on utilizing. Your choices can be either **10Mbs** or **100 Mbs** (as the Output speed on your Network). Generally your choice will be 10 Mbs, however, make sure! Note: Spotlines and Print Servers can only transmit at 10 Mbs.
5. Arrow down to select "**Half Duplex at 10MBs per second**".
6. Now tab to the "**OK**" key, and then hit enter.
7. Then tab "**3**" (three) times and hit enter.
8. Then tab to the "**TCP/IP**" option, then tab to return.
9. If you have entered your company name properly... you should see
10. Your "**Host name**" (our example is "**testlbr**"), if you do, then tab down to...
11. Your "**Host Address**", enter your address now (our example is **207.101.51.50**)
12. Once you have entered your address PROPERLY, several lines will then auto-fill  
Several of the following lines.
13. Once prompted your next keystrokes should be a (**Tab**), an (**OK**), and 2x (**enter**).
14. Now you will be prompted to **Relink the kernel** "Yes or No". Tab to **Yes!**
15. Do you want the system to **relink by default**? Answer "Y for Yes", and hit enter.
16. **Do you want to rebuild the kernel**? Answer "Y for Yes" and hit enter.
17. Installation is now complete, so hit the enter key to return to the prompt.

Next...we will edit the Hosts file. Do so by typing..

**From the prompt type # cd /etc**

**From the prompt type # nte hosts**

You should now see some information that resembles the following

```
#      @(#)hosts 6.1 8/21/93 - Streamware TCP/IP source
#      @(#)last updated Fri Jun 12 17:32:35 CDT 1998
#      SCCS IDENTIFICATION
127.0.0.1      localhost.localdomain
#      @(#)hosts 6.1 8/21/93 - STREAMware TCP/IP source
#      @(#)last updated Fri Jun 12 17:32:35 CDT 1998
#      SCCS IDENTIFICATION
#      Host System
207.101.51.50  testlbr testlbr.UUCP.com
# In house Workstations      # (Single Screens Spotlines)
207.101.51.51      spot1      #      spot1.1
207.101.51.52      spot2      #      spot2.1
207.101.51.53      spot3      #      spot3.1
207.101.51.54      spot4      #      spot4.1
207.101.51.55      spot5      #      spot5.1
# In house Workstations      # (Multi-Screen Spotlines)
207.101.51.56      spot6      #      spot6.1-spot6.8
207.101.51.57      spot7      #      spot7.1-spot7.7
# In house Network Printers
207.101.51.200      office1  office1.testlbr.com
```

After properly editing your host file, you are now ready to proceed. Below, we are showing you the setup for a Spotline Workstations. In our example, we have workstations spot1.1 thru spot3.1 which each have Serial Ithaca Cash Slip printers, Parallel Okidata Invoice Printers, and a Credit card Swipe, in conjunction with a Serial Display Pole, at each of the 3 front POS workstations. To make each one work efficiently, you will need to setup your TCP/IP (Ethernet) Spotline just as I am doing below. To enter into the Spotline setup menu press either the <Scroll Lock> or <Alt Esc> keys. Once you are in the menu, follow these steps....

**USER ENVIROMENT**

Language English  
 Keyboard American  
 Colored Setup Yes  
 Default Session 1  
 System Key Alt (Typically this will be the only key you will change)  
 Beeper Medium  
 Status Lin Bottom  
 Screen Screen Yes  
 Activate 10  
 Message (user defined)

**HOST TABLE**

<u>HOST NAME</u>	<u>INTERNET ADDRESS</u>
Testlbr	207.101.51.50 (see the host file above)

**NETWORK CONFIGURATION**

**INTERNET ADDRESS**  
 SPOT 207.101.51.51 (see the host file above)  
 GATEWAY 0.0.0.0  
 NAME SERVER 0.0.0.0  
 FILE SERVER 0.0.0.0  
 SUBNET MASK 0.0.0.0

**PRINT SERVER**  
 ACTIVE YES  
 PROTOCOL LPD  
 DEFAULT QUEUE SERIAL 1  
 PRINTER SERIAL 1  
 MODE LPR  
 DESTINATION HOST testlbr (see the host file above)

**PRINT SCREEN**  
 MODE LPR  
 DESTINATION HOST DEFAULT COMPANY NAME  
 QUEUE NAME NONE

**PORT CONFIGURATION**

<u>Serial 1</u>	<u>Serial 2</u>
Printer	Printer
9600	9600
8	8
n	n
1	1
Dtr	XonXoff
Direct	Direct

Using "Spot1.1" for our example. Enter into the Spotline setup menu (Alt/Esc or Scroll Lock/Esc). Then select "Sessions". Do so with the following information. As you can see lines 2 or 3 have not been altered from the factory default settings.

**SESSIONS**

<u>Emulate</u>	<u>Key</u>	<u>Monitor</u>	<u>Media</u>	<u>Printer</u>	<u>Host</u>	<u>Auto</u>	<u>Term</u>
Ansi/sco	v4	Asc	Color Telnet	Serial1	testlbr	No	ansic 1
Ansi/sco	v4	Asc	Color Telnet	Serial1	blank	Yes	default
Ansi/sco	v4	Asc	Color Telnet	Serial1	blank	Yes	default

On our next page....

For Spotline6.1-Spotline6.8, we have filled in the necessary eight (8) lines for eight (8) working screens.

## **SESSIONS**

<b>Emulate</b>	<b>Key</b>	<b>Monitor</b>	<b>Media</b>	<b>Printer</b>	<b>Host</b>	<b>Auto</b>	<b>Term</b>
Ansi/sco	v4	Asc	Color Telnet	Serial1	testlbr	No	ansic 1
Ansi/sco	v4	Asc	Color Telnet	Serial1	testlbr	No	ansic 2
Ansi/sco	v4	Asc	Color Telnet	Serial1	testlbr	No	ansic 3
Ansi/sco	v4	Asc	Color Telnet	Serial1	testlbr	No	ansic 4
Ansi/sco	v4	Asc	Color Telnet	Serial1	testlbr	No	ansic 5
Ansi/sco	v4	Asc	Color Telnet	Serial	testlbr	No	ansic 6
Ansi/sco	v4	Asc	Color Telnet	Serial1	testlbr	No	ansic 7
Ansi/sco	v4	Asc	Color Telnet	Serial1	testlbr	No	ansic 8
Ansi/sco	v4	Asc	Color Telnet	Serial1	(blank)	Yes	default
Ansi/sco	v4	Asc	Color Telnet	Serial1	(blank)	Yes	default
Ansi/sco	v4	Asc	Color Telnet	Serial1	(blank)	Yes	default
Ansi/sco	v4	Asc	Color Telnet	Serial1	(blank)	Yes	default

### **You are now ready to add the printer you want to use on the spotline. Go to your Main Unix Server..**

From the prompt type # **scoadmin**

From the list select " **Printers**"

From the list select " **Printer Manager**"

From the Menu, arrow over and select " **Printer**", THEN HIT ENTER

From the List select " **Add Remote**",

From the List select " **Unix**", Then hit enter

Select **OK**, Then hit enter

#### **We are using a ITHICA CS PRINTER**

(THIS IS THE SERIAL 1 PORT ON YOUR SPOTLINE BASE)

Add the name of the Printer Host- **spot1**

Add the name of the Printer- **SERIAL1-1** (then tab to ok and hit enter)

#### **We are using a OKI PARALLEL Printer**

(USE A NORMAL PARALLEL CABLE ON THE PARALLEL PORT ON YOUR SPOTLINE BASE)

Add the name of the Printer Host- **spot1**

Add the name of your Printer- **PARALLEL1**

#### **We are setting up a Display Pole**

( ALWAYS PLUG YOUR DISPLAY POLE INTO THE SERIAL 2 PORT OF YOUR SPOTLINE)

Add the name of your Printer Host- **spot1**

Add the name of your Printer- **SERIAL2-1**(then tab to ok and hit enter)

Now, from the prompt type # **sysut**

Select " **PRINTER**"

Select " **SOFTWARE PRINTER MAINT.**"

SELECT THE " **INSERT**" KEY TO " **ADD A PRINTER**"

NOTE:

When you set up the " **System Printer Queue Configuration**", it should resemble the

Following example: (Remember, we are using an example of spot1-1 for the Test Lumber and Hardware Company.)

## **NOTE:**

**The below referenced Device, File and Spool Command line, has to use all capital letters in that line. Example= "-dSERIAL1-1". This line also has to match the Printer Name that you have entered into scoadmin, "Identically". Not close! Also remember that all printer must have its unique trailing printer id number!**

For the Ithaca (Cash Slip) Serial Line Printer Setup your Queue should resemble

Printer ID Code.....	<u>ESLP1 (the trailing number is unique to this printer)</u>
Description.....	<u>Point of Sale Station Spot1</u>
Location.....	<u>001-0001</u>
[L]ocal [R]emote [T]ransparent...	<u>Remote</u>
Printer Type (F-7 for Query).....	<u>Ithaca93</u>
Forms Class.....	<u>plnpaper</u>
Device, File or Spool Command.....	<u>  /usr/bin/lp -dSERIAL1-1 &gt; /dev/null 2&gt;&amp;1</u>
Command to Execute before Open.....	_____
Command to Execute after Close..	_____

Please continue on the next page....

For the Oki Invoice Parallel Printer Setup your Queue should resemble the following

Printer ID Code..... EPLP1 (the trailing number is unique to this printer)  
Description..... Point of Sale Station Spot1  
Location..... 001-0001  
[L]ocal [R]emote [T]ransparent.... Remote  
Printer Type (F-7 for Query)..... oki321f  
Forms Class..... invoices  
Device, File or Spool Command... | /usr/bin/lp -dPARALLEL1 > /dev/null 2>&1  
Command to Execute before Open \_\_\_\_\_  
Command to Execute after Close \_\_\_\_\_

For the Display Pole attached to Serial Port 2, your Queue should resemble the following

Printer ID Code..... passthru1 (the trailing number is unique to this DP)  
Description..... Display Pole Spot1-1  
Location..... 001-0001  
[L]ocal [R]emote [T]ransparent.... Local  
Printer Type (F-7 for Query)..... dumb  
Forms Class..... display  
Device, File or Spool Command... /dev/tty  
Command to Execute before Open \_\_\_\_\_  
Command to Execute after Close.. \_\_\_\_\_

If your cash slip printer fails to print or cut the paper, make sure that you are

Using the current FORM FILE NUMBER that is needed for its operation.

In Canada- poscan.frm (cash slip printer)

In USA- pos00350.frm (is one of the "normal" files used.)

Because of our recent switch to the Ithaca printers. and the more recent form files that were written to make those printers work, we are experiencing some support pains. So, Please, make sure and check that you have the proper files on your System. If you don't have the current files, have someone send you the file via telnet/ and or on a floppy. The following commands will install those files in the proper order. Once you have the floppy, (or the file) do the following

From the prompt type

**# cd** (and the path to the file)

**# cd /form**

**/form**

**# tar tv6 form**

From the prompt type

**/form**

**# cd \$kdir**

Then type from the prompt

**# compil pos00350.frm**

This document should assist you in various setups at company locations. If you have some ideas/ Or changes please contact the Hardware Department.

**Other Documents that you might need for your installation are:**

The wiring Diagram for Cat 5 Punch Block's and Telephone Jack's

Setting up Network (Universal) Printers

Setting up and Testing Ethernet Hubs and Switches

**ONE COMPLETE SET OF SCANNER SHEETS !**

A packet of Jumpers (for Tape Drives/Hard Drives/etc.)