

## APPENDIX C

### PORTSERVER8 (LAN SERVER) CONFIGURATION

There are two methods to configure the PortServer:

1. PortServer in place in the equipment room cabinet and connected to the CRS network.
2. PortServer not connected to the CRS network.

Once the PortServer is connected to the CRS network, ping the network so it will recognize the PortServer MAC.

Both methods should be accomplished with a dumb terminal or a laptop running a terminal emulation program (such as Procomm Plus.)

1. To configure the PortServer in the CRS network, start in **step a**.

To configure a new or spare PortServer separate from the network, perform **steps b through d** only.

**NOTE:** If the PortServer is previously configured separately, perform **step a**, then go to **step e**. PortServers from NLSC should already be configured. *CRS Modification Note 40, Attachment A, Print Hardware Flow Control Modification Procedure*, telnet procedures will also work. CRS Modification Note 40 was originally used to modify the hardware flow control of the EPSON LX-300 printer and to change the printer cable adapter, but its telnet procedures are a very useful tool.

- a. Install PortServer into the equipment room cabinet and connect all cables.

**Connect the printer cable to port 2.**  
**Connect the modem cable to port 3.**  
**Connect the AWIPS cable to port 4.**  
**Connect the 10Base2 (BNC) cable to the unit.**

- b. Connect a dumb terminal to port 1 of the PortServer.

Set comm port to:

**VT-100 Terminal emulation**

**8 bits,**

**1 stop bit**

**no parity**

**9600 baud**

**NULL modem**

**Use the Digi DB24-to-RJ45 cable.** (The Digi DB24-to-RJ45 cable came with all CRS PortServers.)

- c. Press <Enter> to get a prompt, then login as **root** with password **dbps**.
- d. Issue the following commands:

<b>set config ip=165.92.xxx.xxx</b>	defines the IP address (Replace xxx.xxx with the actual numbers for ps8 from the <i>/etc/hosts</i> file on the CRS computers.)
<b>set config myname=ps8</b>	defines the node name
<b>set port dev=host ra=3-4</b>	defines ports 3-4 as a host device
<b>set port dev=prn ra=2</b>	defines ports 2 as a printer device
<b>set flow ixon=off ra=2-4</b>	defines ports 2-4 with ixon off
<b>set flow altpin=on ra=2</b>	defines ports 2 with altpin on

**NOTE:** The IP address of one of the CRS computers is needed. It does not matter which address is used with the command in step e.

- e. **ping 165.92.xxx.xxx** Replace xxx.xxx with the actual numbers for one of the CRS computers from the */etc/hosts* file on the CRS computers. You need to ping one of the CRS computers. This broadcasts the MAC address of the LAN server to all computers on the CRS LAN. When properly programmed the Port Server should be able to be pinged from any of the CRS computers.
  - f. At one of the CRS computers ping the PortServer  
**ping ps8** or **ping 165.92.xxx.xxx** Replace xxx.xxx with the actual IP address for the CRS PortServer from the */etc/hosts* file on the CRS computers.
  - g. The response is *ps8 is alive*.
  - h. Logout of the PortServer8 by typing **exit** and press <Enter>.
2. Disconnect dumb terminal from port 1 on PortServer.

**NOTE:** Telnet can also be used (through one of the CRS computers) to configure LANServer (PortServer) if the IP address has been previously configured, as stated in CRS Modification Note 40, Attachment A. Modification notes can be found at [http://www.ops1.nws.noaa.gov/crs\\_new.htm](http://www.ops1.nws.noaa.gov/crs_new.htm). Under *Related Links*, click *EHB-7*.