Enabling RARP

RARP (Reverse Address Resolution Protocol) can be used to establish communications. The printer broadcasts its Ethernet address across the network, and receives its internet address from the first host to respond.

1. If the **rarpd** daemon is started within the /etc/rc.local file or a similar startup file, it is always running and waiting for RARP broadcasts. If the **rarpd** command line does not exist in your /etc/rc.local file, you need to add it. To verify that the **rarpd** startup command is in the file, type:

```
grep rarpd /etc/rc.local
```

If the **rarpd** startup command is in the file, this line is displayed:

```
/usr/etc/rarpd -a ;echo -n ' rarpd'
```

- 2. Verify that rarpd resides where it is specified in /etc/rc.local. For the preceding examples, rarpd would be located in /usr/etc. If there is a mismatch between the actual location and the specified location, either move the rarpd binary or change the /etc/rc.local file.
- 3. Edit the /etc/hosts file to add the printer internet addresses and names. This example adds two Phaser 340 printers to the /etc/hosts file:

```
128.07.60.30 P340-mktg
128.07.60.31 P340-sales
```

4. Edit the /etc/ethers file to add the printer Ethernet addresses and names:

```
08:00:11:01:00:45 P340-mktg 08:00:11:01:00:46 P340-sales
```

5. Some hosts require an explicit update to the arp table to add new entries. This command is host-specific; check your host documentation for details. For example, the following command lines add the Ethernet addresses of two Phaser 340 printers to the arp table:

```
arp -s ether P340-mktg 08:00:11:01:00:45 arp -s ether P340-sales 08:00:11:01:00:46
```

The *ether* switch indicates an Ethernet address. The **arp** command can be run with a -**f** *filename* option, where *filename* is a file of the printer entries to set.

Restart the rarpd daemon without rebooting the system to put the changes you have made into effect. Use one of the following methods.

For BSD systems

a. Find out the process ID number for the **rarpd** daemon; type:

```
ps -aux | grep rarpd
```

This command produces the following output:

```
root 193 0.0 0.0 48 0 ? IW Oct 24 0:12 rarpd root 12366 0.0 0.3 32 196 pb S 11:55 0:00 grep rarpd
```

b. Restart the **rarpd** daemon, which is process ID number 193 in this example. Type:

kill -HUP 193

For System V

a. Find out the process ID number for the rarpd daemon; type:

This command produces the following output:

b. Restart the **rarpd** daemon, which is process ID number 6206 in this example. Type:

7. If **rarp** is not running, type:

/usr/etc/rarpd -a &

Source: 070-9538-00 AB