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LaserWriter Pro 810: Configuring TCP/IP Printing (3/96)

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Security: Everyone

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TOPIC -----

I am trying to configure my LaserWriter Pro 810 for printing with TCP/IP. How do I need to set this up?

DISCUSSION -----

Connecting the LaserWriter Pro 810 to Ethernet
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TCP/IP printing to the LaserWriter Pro 810 is supported only through Ethernet, there is no Token Ring support.

You should ensure that you have the appropriate Ethernet adapter installed in the LaserWriter Pro 810. Apple supports both thin coax and twisted pair with the following:

Service Part

- 661-0853 - Ethernet, 10 Base T
- 661-0854 - Ethernet, 10 Base 2

You should power the printer on after installation to confirm that the Ethernet card is recognized. The startup page will have an Ethernet icon if the interface is active.

Detailed instructions on Ethernet installation can be found in the "Network Installation and Configuration Manual":

- Rev A, Part 1, Section 2.1-3.2, (p 2-1 to 3-2)
- Rev B, Part 1, Section 2.4-5 and 3.1-2, (p 2-7 to 3-2)

Setting The IP Address

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NOTE: BOOTP cannot be used to configure an IP number. The IP address of the printer can be changed by 2 methods:

- RARP (reverse address resolution protocol)
- RCF (remove command facility).

Check for an already assigned IP number

Using the front control panel:

- 1) Press offline
- 2) Press print status
- 3) Press online.

Three pages will print out. On page two, "printer configuration" a section for Ethernet, and a field for IP address.

Reverse address resolution protocol (RARP)

RARP requires a UNIX host with rarpd support on the same subnet as the LaserWriter Pro 810.

Instructions for RARP are contained in Network Configuration and Installation Manual:

- Part 2, Section 3.4.1 (page 3-9) of Rev A
- Part 1, Section 2.3.3 (page 2-6) of Rev B

RARP cannot configure subnet or gateway information. You will have to connect via RCF to configure the other settings.

Remote Control Facility

Login to the LaserWriter 810 via Maintenance Port, TELNET or NCP.

The Maintenance Port requires using a serial to RJ12 cable, and connect at 9600 bps, 8 bits, 1 stop bit, no parity.

Cable pinouts for RJ-12 to DB-25 (typical DOS serial connector) are in (both Rev A & B)

Part 1, A-2 (page A-2)

- TELNET works only if the LaserWriter Pro 810 already has an IP address.
- NCP connects at the Ethernet address level, and does not require a pre-existing IP address. Become privileged by typing:

su

Enter the system password (default is "system").

Change the IP address by using:

```
DEFINE SERVER IP w.x.y.z  
substitute desired address with w.x.y.z
```

Restart printer and print configuration page to confirm change.

Configuring gateway and subnet mask

To define the server subnet mask, enter the following command:

```
Define server subnet mask <w.x.y.z>
```

Confirm by restarting computer and entering the following commands:

```
Show server tcp
```

```
Define node <w.x.y.z> gateway default
```

NOTE: Users should not use the set/define/change route command unless they have a specific network configuration that requires complex routing tables.

Article Change History:

04 Mar 1996 - Corrected maintenance port settings.

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