LW Pro 810: Non-AppleTalk Packets in Data Stream (11/94)

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TOPIC --

When I used a network diagnostic tool on my network, I noticed that a variety of
non-AppleTalk packets are being sent from my LaserWriter Pro 810. How do I turn
each one off or on?

DISCUSSION ---

If you plan on using the RCF (Remote Console Facility) extensively you should
order the manual "Apple LaserWriter Pro 810 TCP/IP - LAT Protocol and Command
Reference" (Apple Part Number M2187LL/A).

RCF can be accessed a couple of different ways. The easiest is by Telnet, once
the printer's IP address has been set. The other way is by using the RJ-12
maintenance port. This option requires a unique RJ-12 to mini DIN-8 cable. For
further information on the maintenance port and cabling, refer to Section 2.3.2
and Appendix A of Part 1 in the LaserWriter Pro 810 Network Installation and
Configuration Manual. Once the connections have been made, the default passwords
for RCF are as follows:

```
RCF:                    password = ACCESS
RCF Super User mode:    password = SYSTEM
```

Enable or Disable a Protocol Stack

Below is listed the RCF commands you can use to enable or disable the entire
protocol stack. Use these commands to specify server options:

```
    SET     SERVER option(s)
    DEFINE
    CHANGE


Option: AUTHORIZED [PROTOCOL] APPLETALK [ENABLED | DISABLED]
                             LAT       [ENABLED | DISABLED]
                             NETWARE   [ENABLED | DISABLED]
                             TCPIP     [ENABLED | DISABLED]
                             ALL
                             NONE
```

Below is an example showing the disabling of TCP/IP:

```
change server authorized tcpip disabled
```

Specifying a protocol with no flag, enables that protocol and disables the rest.
ALL enables all protocols. NONE disables them.

SET   Modifies the current database and takes effect immediately.
         Parameters are reset to permanent (DEFINEd or CHANGEd) values
         at the next login or initialization

DEFINE   Modifies the permanent database and takes effect next login or
         initialization.

CHANGE   Modifies both databases immediately.

Enable or Disable Announcement Broadcasts

Announcement broadcasts may also populate the network such as DECnet MOP
(Maintenance Operation Protocol) or bootp in TCP/IP. Use this command to specify
server options.

```
   SET     SERVER option(s)
   DEFINE
   CHANGE
```

```
Option: ANNOUNCEMENTS [PROTOCOL] LAT   [ENABLED | DISABLED]
                                 TCPIP [ENABLED | DISABLED]
                                 RCF   [ENABLED | DISABLED]
```

Note: RCF enables or disables DECnet Mop.

Below is an example showing how to disable the DECnet MOP broadcasts:

```
change server announcements rcf disabled
```

SET   Modifies the current database and takes effect immediately.
         Parameters are reset to permanent (DEFINEd or CHANGEd) values
         at the next login or initialization

DEFINE   Modifies the permanent database and takes effect next login or
         initialization.

CHANGE   Modifies both databases immediately.

Enable or Disable Netware Broadcasts

Netware broadcasts are different, use this command to specify the preferred
Ethernet mode that IPX uses.

```
 SET     SERVER NETWARE IPX [DEFAULT | 802.3 | [ETHERNET_II [ether_type]]]
 DEFINE                     [REDISCOVER [minutes]]
 CHANGE                     [FAST [PRINTSERVER] ENABLE | DISABLE]
```

Below is an example showing how to disable Netware broadcasts:

   change server netware ipx rediscover 0

DEFAULT   IPX will try both 802.3 and Ethernet II. The first one found
             will be selected.

802.3   IPX will only look for 802.3 Ethernet frames.

ETHERNET_II IPX will only look for Ethernet II frames.

ether_type   If Ethernet II is selected the user can specify the Ethernet
             type in ASCII hex. For example, the Netware default is
             0x8137. The Ethernet type is not changed if this is not
             specified.

REDISCOVER   Triggers the rediscovery process. This process queries the
             network for newly configured Novell Print Servers and starts
             all remote printers found.

minutes   If specified with the REDISCOVER keyword this sets the
             automatic interval at which REDISCOVERY takes place. The
             range is from 0-14 minutes, 2 is the default and 0 disables
             periodic rediscovery.

FAST   Some versions of Netware pserver when run on original PC
             class machines (4.77mhz) require this option to be disabled.

Article Change History:
09 Nov 1994 - Updated article to include more RCF commands and clarity.
25 Oct 1994 - Updated article to include more RCF commands.

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