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LaserWriter Pro 810: ROM Upgrade For Network Printing (4/96)

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TOPIC -----

This article discusses a ROM upgrade available for the LaserWriter Pro 810, and a list containing the revisions made to the ROM.

DISCUSSION -----

A ROM upgrade is now available for the LaserWriter Pro 810 which fixes most of the known network printing problems. A plan is in place to have service stock replaced by June 1, 1995. In the interim if you need an emergency ROM upgrade send a request through your normal escalation process and include the customers mailing information and phone number.

ROM Changes

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The following are the changes that have been included in the ROM upgrade version 1.2 for the LaserWriter Pro 810.

Changes Since Revision 1.1

1. Added the PCL parameter Fontspace, Typeface, Symbolset, Height, Style, Strokeweight, and VMI to the SET/DEFINeCHANGE SERVICE command.
2. Added the parameter PAPER_SOURCE to SET/DEFINE/CHANGE SERVICE. This allows the virtual printer to select paper trays.
3. Revised the queuing procedure for AppleTalk protocol to allow operation with the Novell ATPS NLM. The Apple Arbitration procedure is now selectable (factory default is enabled) and must be disabled for proper operation of older version of ATPS. AppleTalk Jobs are entered into the queue and the connection is maintained open while the Job remains in the queue. This fix also allows Appletalk printing to Windows NT.

Two issues that may arise as a result of arbitration disabled are:

- a. The Macintosh print monitor will no longer display the status of Jobs ahead of the Job from the local Macintosh. This is because the local Macintosh believes that the printer is now processing it's Job.
- b. Older LaserWriter drivers that contain a connection timeout will fail indicating a communication error.
- 4. The PSM AppleTalk Address Resolution Protocol (MRP) was revised to provide multiple responses to an ARRP request if necessary. This was a bug found with the COPS Pserve program.
- 5. The PSM Name Binding Protocol (NBP) was corrected for proper operation when the spooler is on a different zone than the printer.
- 6. The LPD service has been changed to allow using any TCP virtual printer as the Ipd queue name per the "/etc/printcap" entry. The old queue names "TEXT" and "PASSTHRU" are no longer available as default queue names.
- 7. Novell PSERVER protocols have been included for NetWare. Novell 4.X is functional in Bindery emulation mode.
- 8. IP address Initialization can now be made using 'ARP' and 'Ping'.
- 9. Corrected problem which prevented NetWare files greater than 16.78 Mbytes from printing.
- 10. Corrected PSM crash which causes the printer to drop off of the Macintosh Chooser.

NOTE: For other issues on network printing to a LaserWriter Pro 810, please refer to "LaserWriter Pro 810: Disappearing/Connection problems" (16201).

Article Change History:

- 17 Apr 1996 - Replaced entire discussion.
- 09 Aug 1995 - Added cross-reference information.

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