

AppleTalk

This document details using the Print Server in the AppleTalk environment.

The Print Server supports AppleTalk (EtherTalk), PAP, ATP, NBP, ZIP and DDP protocols, enabling Macintosh computers on the network to view and use the Print Server as a regular AppleTalk printer. Configuring and printing in the EtherTalk environment operates completely as usual.

The ***PSTool*** program has been provided specifically for the Macintosh environment, to allow easy configuration of your Print Server. However, it is not necessary to install and use this program for basic operation.

Software Requirements

System 7.x OS or newer.

AppleTalk Setup

1. Click the apple icon and choose Control Panel.
2. Click Network.
3. Ensure that *EtherTalk* is selected under *AppleTalk Connection*.
4. Click *Chooser*. The Chooser panel will open.
5. Click on either the *LaserWriter 8* icon (recommended) or the *LaserWriter 7* icon. LaserWriter 8 makes use of the fonts installed in the printer itself, so the printing response time is quicker. LaserWriter 7 uses the fonts installed in the computer, which increases network traffic and takes more printing time.
6. Select a Print Server from the printer list by clicking on the appropriate name. The Print Server's name is recorded on a label on the bottom of the Print Server as "Server Name". This name consists of 8 digits and/or numbers.
7. Click on the *Close* box.
Configuration is now complete.

Printing

Printing with the Print Server installed in an AppleTalk network is identical to normal printing.

For example, select a document that you want to print and then select *File - Print*. Chose the desired printer.

Advanced Setup and Management

This section describes the configuration changes which can be made to your Print Server device.

Changing the Device Configuration

Windows Software

In a mixed Windows PC/Macintosh environment, you can use either WPConfig or BiAdmin to configure the Print Server.

Macintosh Software

In AppleTalk, you can use **SimpleText** to edit the Print Server's CONFIG file and the supplied **PSTool** program to send it to the Print Server. The procedure is as follows:

1. Copy the following files from the Utility\Apple folder on the CD-ROM to an appropriate folder on your hard disk.
PSTool
CONFIG.xxx

Select the appropriate CONFIG file for your model as follows:

config.1p	Single parallel port model
config.2p1s	Two parallel ports, 1 serial port
config.3p	Three parallel ports

2. Use **Chooser** to select the desired Print Server.
3. Double click the CONFIG file, and edit it. The file should look like the example below, but may vary depending on your model.

```
begin CMD
0001 Device Name: xxxxxxxx
3000 Apple Zone : *
3001 Printer Type (P1): LaserWriter
3002 Printer Type (P2) LaserWriter
3003 Printer Type (SP): LaserWriter
3004 Printer Type (P3) LaserWriter
3101 AP_PCOMM1: No
3102 AP_PCOMM2: No
3103 AP_PCOMM3: No
3104 AP_PCOMM4: No
Serial Port Configuration
0030 Baud Rate: 9600
0031 Stop Bits: 1
0032 Parity: None
0033 Data Bits: 8
0034 Handshake: HARDWARE
9002
```

The appropriate values for each line are described in the following section.



Do NOT modify the following lines:

```
beginCMD
9002:
```

4. Save the file.

5. Double click the icon for PSTool.
6. Click the Printer submenu and choose *Download Postscript File*. A panel will appear with a list of files.
7. Click the CONFIG file. Then click *Download*.

AppleTalk Settings

When editing the CONFIG file, only the *parameter* should be changed. The *parameter* is the last part of the line, after the colon (:). Ensure that you use only valid *parameters*.

0001 Device Name: xxxxxxxx

The *Device Name* will initially be the *Default Server Name*. The *Default Server Name* is shown on a sticker on the base of the device. The *Device Name* can be changed, but the new name MUST NOT exceed 19 characters in length.

3000 Apple Zone: *

The default value “*” allows all AppleTalk zones to access the Print Server’s printers. To restrict access to a particular zone, enter the zone name here.

3001 Printer Type (P1): LaserWriter

3002 Printer Type (P2) LaserWriter

3003 Printer Type (SP): LaserWriter

3004 Printer Type (P3) LaserWriter

These are text fields, used to describe the printer driver used for each port. P1, P2, P3 refer to the parallel ports, while SP refers to the Serial Port The name can be up to 19 characters long.

3101 AP_PCOMM1: No

3102 AP_PCOMM2: No

3103 AP_PCOMM3: No

3104 AP_PCOMM4: No

These settings determine whether the port uses ASCII or Binary Communication Protocol. Enter NO for ASCII or YES for Binary. The lines refer to the following ports.

3101 AP_PCOMM1:	Parallel Port 1
3102 AP_PCOMM2:	Parallel Port 2
3103 AP_PCOMM3:	Serial Port
3104 AP_PCOMM4:	Parallel Port 3

In choosing which Protocol to use, consider the following points.

- Binary communication is twice as fast as ASCII

- ASCII communication is more reliable
- The computer, Print Server and printer MUST all be configured to use the SAME protocol. Check your printer manual for details of printer configuration, and use the *Print* menu to configure your computer, so that they use the same settings as the Print Server.

Serial Port Configuration

Check your serial device to see what settings should be used. The following options are available.

Setting	Options
0030 Baud Rate	Depending on the model, allowable values will range from 300 to 38400, or 1200 to 460800.
0031 Stop Bits	1 or 2.
0032 Parity	None, Odd, Even.
0033 Data Bits	7 or 8.
0034 Handshake	Hardware, XON/XOFF, None, Both (Hardware & XON/XOFF)