Silex Users Manual SX

5. Using PRICOM in UNIX/Linux Environment

This chapter explains how to configure PRICOM in UNIX/Linux environment and how to print using LPD and FTP.

For further information not covered in this manual, refer to the manual of workstation you use.

<Procedure to execute printing in UNIX/Linux environment.>



Configuring IP Address



-After configuring IP address, configure PRICOM by TELNET.

For information about TELNET, refer to Chapter 8 Functions for Configuration.

Configuring IP Address by BOOTP

Register the combination of IP address and Ethernet address that are to be registered on PRICOM to BOOTP server. IP address will be configured to PRICOM by turning the power on.



 To configure IP address by BOOTP, you need a workstation that is running BOOTP within the network.

The below shows an example of IP address configuration by UNIX BOOTP server.

Example: Ethernet address is "00809200100f", IP address is "192.168.10.100" and host name is "pbox".

1. Add following configuration to /etc/bootptab.

pbox:\	
ht=ether:\	# Target hardware type is ETHERNET
ha=00809200110f:\	# Target hardware address
ip=192.168.10.100:\	# Target IP address
gw=192.168.10.254:\	# Default gateway address (If required)
sm=255.255.255.0:	# Target subnet mask (If required)

- 2. Add following configuration to /etc/inetd.conf. bootps dgram udp wait root /etc/bootpd bootpd
- 3. Reboot inetd.

kill -1 1

4. Reset PRICOM and printer.



Configuring IP Address by RARP

Add the combination of IP address and Ethernet address that are to be registered on PRICOM to UNIX /etc/ethers and activate RARPD. IP address will be configured to PRICOM by turning the power on.



-To configure IP address by RARP, you need a workstation that is running within the network.

The below shows an example of IP address configuration by UNIX RARP server.

Example: Ethernet address is "00809200110f", IP address is "192.168.10.100" and host name is "pbox".

- 1. Add following configuration to /etc/ethers. 00:80:92:00:11:0f 192.168.10.100 #pbox
- 2. Reboot RARPD. rarpd -a
- 3. Reset PRICOM and printer.



Configuring IP Address by ARP

Register the combination of IP address and Ethernet address on ARP table and execute PING.



IP address configured in this method is temporary and will not be registered to PRICOM.
 Be sure to register IP address by TELNET or utility.

Example: Ethernet address is "00809200110f", IP address is "192.168.10.100" and host name is "pbox".

- 1. Switch on PRICOM.
- Register the combination of IP address and Ethernet address on the ARP table by using ARP command. arp -s 192.168.10.100 00:80:92:00:11:0f temp
- 3. Command PING. ping 192.168.10.100
- 4. If you get reply from PRICOM, configuration is complete. 192.168.10.100 is alive.

Configuring Host File

Register host name and IP address to UNIX or Linux hosts file.



-Make sure to contact network administrator when editing hosts file.

-Editing hosts file may not be required if using IP administration system like DNS.

- 1. Log in to UNIX/Linux machine by "root". # login root
- 2. Register PRICOM host name and IP address to /etc/hosts file.

To edit host file, use an editor, e.g. "vi".

Example: The IP address is "192.168.10.100", host name is "pbox"

192.168.10.98	venus	# UNIX-A
192.168.10.99	mars	# UNIX-B
192.168.10.100	pbox	# Print-Server

Switch on printer. Verify the network connection by using ping command.
 # ping pbox



-If there is no response or error is indicated, there may be problems with IP address configuration, host file editing or network status. Contact network administrator.

Printing by LPD

This section explains how to print using LPD protocol of TCP/IP.

For further information on "lpr" and "lp" commands, refer to your workstation manual.



LPD protocol:

LPD (Line Printer Daemon) is a protocol that enables you to execute printing to a printer on the network.

Remote-Printer Queue

PRICOM has three remote printer queues.

For printing files using printer driver, use "lp". For printing text files using shift-JIS KANJI code, use "sjis". For printing text files using EUC KANJI code, use "euc".

Remote Printer	Function		
lp	Direct output port		
sjis	Shift- JIS KANJI code		
euc	EUC KANJI code		



Using PRICOM in Solaris Environment

Solaris 2.6/7/8

This section explains how to print from Solaris2.6/7/8.

The below command and path instruction may vary depending on OS version. Refer to your workstation manual.



-Remote printer can not be configured with PRICOM.

- 1. Create Printer Queue
 - 1-1 Log in to UNIX machine by "root". # login root
 - 1-2 Register print server name.

Example: Register the print queue name by "pboxlp":

Ipadmin -p pboxlp -m netstandard -o protocol=bsd

(Print queue name) -o dest=pbox:lp -v /dev/null (Host name) (Remote printer name)



-The "lp" following ":" represents PRICOM remote printer name.. EUC kanji text data can be directly printed as configuring the below example. # lpadmin -p pboxeuc -m netstandard -o protocol=bsd -o dest=pbox:euc -v /dev/null

(Specify euc port)

1-3 Enable print queue. #/usr/sbin/accept pboxlp

#/usr/bin/enable pboxlp



2. Printing

2-1 This section explains how to print using [lp] command. For more details, refer to Solaris manual. # lp -d pboxlp <Name of print file>

This causes the banner page to be automatically printed.

To disable the banner printing feature, add the following option, "-o nobanner".

lp -d pboxlp -o nobannert <Name of print file>

Alternatively, type,

lpadmin -p pboxlp -o nobanner

directly edit the filter file generated under /etc/lp/interfaces.

Either of these options disables banner print function.

Example: Using an editor e.g. vi, open the file shown below. Change "nobanner=no" to "nobanner=yes".

vi /etc/lp/interfaces/pboxlp

nobanner=no ---> nobanner=yes

3. Cancel the print request.

3-1 Use "cancel" command to cancel the current print job request.

-Depending on the timing or Solaris specification, canceling attempt will fail.

4. Check the printer status

4-1 Use "lpstat" to verify the printer status. # lpstat -p pboxlp



TIP

Depending on the UNIX specification, the command will fail to correctly display the printer status.



Solaris 2.3x-2.5x

This section explains how to print from Solaris 2.5 or below.

Command absolute path and configuration method may vary depending on OS version. Refer to your workstation manual for more details.



-Remote printer can not be used with PRICOM.

- Prepare the print queue.
 1-1 Log in to the UNIX machine by "root".
 # login root
 - 1-2 Cancel the print scheduler. # /usr/sbin/lpshut
- 1-3 Register the print server. Example: Register the host name "pbox": #/usr/sbin/lpsystem -R0 -t bsd pbox
- 1-4 Configure the print queue.

Example: Register the print queue name "pboxlp": #/usr/sbin/lpadmin -p pboxlp -s pbox!lp (Name of print queue) (Name of the host) (Name of logical printer)



When using csh, replace "/!" or "\!" with "!". The "lp" following "!" represents the name of the PRICOM logical printer. EUC kanji text data can be directly printed as it is by the following setup. #/usr/sbin/lpadmin -p pboxeuc -s pbox!euc

(Specify euc port)

- 1-5 Activate the print scheduler. #/usr/bin/sh /etc/init.d/lp start
- 1-6 Enable the print queue. #/usr/sbin/accept pboxlp #/usr/bin/enable pboxlp



2. Printing.

2-1 Print using "lp" command.

lp -d pboxlp <Print file name>

3. Cancel the print request.

3-1 Use the "cancel" command to cancel the current print job request. # cancel pboxlp- <Name of print file>

- 4. Check the printer status.
 - 4-1 Use the "lpstat" to verify the printer status.# lpstat -p pboxlp



-Depending on the UNIX specification, the command will fail to correctly display the printer status.



[Limits]

When running PRICOM with Solaris 2.x, following limits occurs due to Solaris specifications.

- 1) If, after starting printing, the printer goes off line and cannot receive data for quite a while, timeout occurs on the Solaris side and then the printing continues (re-connection). This means that the data stream to the printer is discontinued, and the first page will be sent again.
- 2) When the printer status is displayed in the form "lpstat -p<printer name>", optional character string returned to show the status (e.g. PrinterReady) cannot be interpreted by the Solaris. As a result, "Faulted" is displayed followed by unintentional characters.
- 3) When a print-related command is sent to PRICOM while the Solaris is sending data from the same machine, the command cannot function as it should. This is because Solaris cannot output another packet until it finishes the transmission of the current data. Thus, "system not responding" will be displayed in response to "lpstat -p <printer name>.
- 4) Certain commands such as lpstat following cancel command will result in error. In such case, printer scheduler daemon may not be running, so verify using "lpstat -r". If "scheduler is not running" is displayed, reboot the printer scheduler daemon by typing in as below. /bin/sh /etc/init.d/lp start
- 5) Even if "cancel" is used to delete a job that does not exist, no error occurs with Solaris.



Running PRICOM in HP-UX 9.x/10.x Environment

This section explains how to print from Hewlett-Packard HP-UX.

Command absolute path and configuration method may vary depending on OS version. Refer to your workstation manual for more details.

- 1. Set the remote spooler.
 - When HP-UX machine is not configured to remote spooler, follow with the below configuration.
 - 1-1 Log in to the UNIX machine by "root".

login root

- 1-2 Cancel the printer spooler. #/usr/lib/lpshut
- 1-3 Register remote spooler by adding the line shown below to /etc/inetd.conf file. printer stream tcp nowait root /usr/lib/rlpdaemon -i
- 1-4 Reboot inetd. #/etc/inetd -c
- 2. Prepare the print queue.
 - 2-1 Log in to the UNIX machine through "root". # login root
 - 2-2 Configure print queue.
 - Example: Register the print queue name as "pboxlp":
 - #/usr/lib/lpadmin -ppboxlp -mrmodel -ormpbox
 - (Print queue name) (Host name)
 - -orplp -ocmrcmodel -osmrsmodel -ob3 -v/dev/null (Remote printer name)



-The "lp" following "-orp" represents the name of PRICOM remote printer.

-SJIS kanji text data can be directly printed by configuring as below.

#/usr/lib/lpadmin -ppboxsjis -mrmodel -ormpbox

-orpsjis -ocmrcmodel -osmrsmodel -ob3 -v/dev/null

(Specify sjis port)



- 2-3 Enable the print queue. #/usr/lib/accept pboxlp #/usr/bin/enable pboxlp
- 2-4 Boot the printer spooler. #/usr/lib/lpsched
- 3. Prepare for printing.
 - 3-1 Use the print command "lp". # lp -d pboxlp <Name of print file>
- 4. Cancel the print request.
 - 4-1 Use the "cancel" command to cancel the current print job request. # cancel pboxlp- <job number>
- 5. Check the printer status
 - 5-1 Use the "lpstat" to verify the printer status. # lpstat -p pboxlp



-Depending on UNIX specification, the command may fail to display the printer status correctly.

TIP



Using setnetlp Tool

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-setnetlp utility is available for HP-UX, ver. 10.10 or below.

TIP

Example: IP address: 192.168.10.100 Host name: pbox These are already registered to /etc/hosts and to be registered by "pboxlp" as a queue name.

1. Log in by root and execute /usr/sbin/setnetlp. Below menu will be displayed. Select [1) Add Printer]

/usr/sbin/setnetlp
######################################
1) Add Printer 2) Remove Printer
q) Quit
Please enter a selection: 1

2. The below menu will be displayed. Select [1) LP destination name:]

Please enter a selection: 1				
Configurable Parameters:	Current Settings			
0) Done. Make Configuration now! 1) Lp destination name: 2) Remote System name: 3) Remote Printer name: 4) Local Model Script:	[(N/A)] [(N/A)] [(N/A)] [(N/A)]			
q) Quit				
Select an item for change or select (0":1)				



3. Registered printer list will be displayed. Type in printer name to be configured following [Please enter a lp destination name:].

Currently used names:
·
qlfxodq qlfxodq
Please enter a lp destination name pboxlp

4. Select [2) Remote System name]. Type in the IP address configured to PRICOM, or the host name registered to /etc/hosts after [Please enter a remote system name/ IP address:].

Host name is typed for this example.

Select	an item	for change or	select '	<i>"</i> 0″:2		`
Please	enter a	remote system	name/IP	address	xodq	

5. Select [Remote Printer name]. Type in [lp] following [Please enter a remote printer name:]

Select	an item for change or select "0":3	
Please	enter a remote printer name: Tp	



6. Select [4) Local Model Script]. Model file list and prompt will be displayed. Type in model file name to be configured following [Please enter a model file:]. [PS.nlio] that is generally used by Japanese postscript is used for this example.

Select an item for change or select "0":4 Valid Models:					
ESCP HPGL1 HPGL2 LIPS3 LIPS4 PCL1 PCL2 PCL3 PCL4 PCL4.nloo PCL5 PCL5.asian PCL5.nloo PS.nlio colorlaserjet Please enter a	colorpro deskjet deskjet1200C deskjet1600CM deskjet500C deskjet550C deskjet850C deskjet855C draftpro dumb dumbplot fonts hp2225a hp2225a hp2227a model file: PS.r	hp2228a hp2235a hp2276a hp2300-1100L hp2300-840L hp2560 hp2563a hp2564b hp2565a hp2566b hp2567b hp2567b hp2684a hp2684a hp2686a hp2686a hp2932a	hp2934a hp33440a hp33447a hp3630a hp5000c30 hp5000f100 hp7440a hp7475a hp7550a hp7595a hp7596a hpC1208a hpc1208a laserjet	laserjet4 laserjet4Si laserjet5Si laserjet1IISi paintjet paintjetXL300 postscript print_model.sh quietjet rmodel rmodel.asx ruggedwriter sharedprint thinkjet	



-Select "LIPS4 (LIPS3)" when using Canon LBP series.

 \square -Select "ESCP" when using Epson LP series.

7. When everything is complete, the below to be displayed. Select [0] Done. Make configuration now!:] if there is nothing you want to change.





8. Make sure that the machine is not performing printing sequence, and then type in "y".

Select an item for change or select "0":0 WARNING: This operation requires lp spooler be shut down. The spooler will be running again after this operation is done. If there are jobs currently being printed, those are reprinted in their entirely after spooler is started again. OK to continue? (y/n, default-n(): y

9. This completes the printer addition procedure. Press [Return] key.

Printer,	pboxlp, has	beer	n added.			
Press the	e return-key	to i	return t	o co	nfiguration m	nenu

10. The display returns to registration confirmation screen. Enter "q" twice to quit the setnetlp tool.

Configurable Parameters:	Current Settings
0) Done. Make Configuration now! 1) Lp destination name: 2) Remote System name: 3) Remote Printer name: 4) Local Model Script:	[pboxlp] [pbox] [lp] [PS.nlio]
q) Quit	
Select an item for change or select "(":	q



11. Execute test print to verify the proper printing operation.

Example: Printing Japanese text file

To print Japanese text file, the following options are required. (For further information, refer to HP-UX manual.)

Character code	lp option
Shift JIS	japanese
Japanese EUC	japanese.euc

11-1 Shift JIS text test print

Command examples for test print is shown below. #lp -d pboxlp -ojapanese "en quad" location of the text

11-2 Japanese text test print

Command example for test print is shown below. #lp -d pboxlp -ojapanese.euc "en quad" location of the text



To delete printer registered, the below command should be typed.

#/usr/sbin/setnetlp -x <destination>

<destination> is a registered printer name.



Using PRICOM in AIX 4.x.x Environment

This section explains how to print from IBM AIX.

Command absolute path and setting method may vary depending on OS version. Refer to your workstation manual for more details.

1. Prepare the print queue.

1-1 Log in to the UNIX machine through "root". # login root

1-2 Add a print server.Example: To add a host named "pbox".# ruser -a -p pbox

1-3 Start the remote printer daemon.# startsrc -s lpd# mkitab 'lpd:2:once:startsrc -s lpd'

1-4 Add a print queue by using smit command:

1-4-1 Once the command starts, shift to the option "Add printing queue". # smit mkrque

1-4-2 Among "Connection types", select "remote" (a printer connected to a remote host).

1-4-3 Select "Standard processing" among "remote printing type".

1-4-4 Under "Add a standard remote queue", configure the following items. In addition, modify other options to match the conditions of the operating environment.

Example: To register the print queue under the name "pboxlp". Queue to be registered [pboxlp] Host name of the remote server [pbox] Name of the queue on the remote server [lp] Type of print spooler on the remote server [BSD] Printer name description on the remote server [any comment]



-"Ip" in the "Queue name on the remote server" line is PRICOM remote printer name. -SJIS kanji text data can be directly printed by typing "sjis" into "Queue name on the remote server".



- 2. Printing
 - 2-1 Print using command "lp".

lp -d pboxlp <print file name>

3. Cancel the print request.

3-1 Use the "cancel" command to cancel the current print job request.# cancel pboxlp- <job number>

- 4. Check the printer status.
 - 4-1 Use the "Ipstat" to verify the printer status.



-Depending on UNIX specification, the command may fail to display the printer status correctly.



Using PRICOM in BSD UNIX Environment

This section explains how to print from BSD UNIX.

Command absolute path and setting method may vary depending on OS version. Refer to your workstation manual for more details.

1. Prepare the print queue.

1-1 Log in to the UNIX machine by "root". # login root

1-2 Register the PRICOM to /etc/printcap file.

Example: To register a print queue by the name "pboxlp".

pboxlp:\	(1)
:lp=:rm=pbox:rp=lp:\	(2)
:sd=/usr/spool/pboxlp:\	(3)
:lf=/usr/spool/pboxlp/pboxlp errs:	(4)

<Description of parameters>

(1) Describes the printer name.

(2) Ip: Device file name to connect printer.

No name designation required on the network.

rm: remote printer host name.

Type the host name registered to /etc/hosts file.

- rp: Remote printer name.
 - PRICOM remote printer name; select either lp, sjis or euc.
- (3) sd: Spool directory name. Must be the absolute path.
- 84) If: Error log file name. Must be the absolute path.

1-3 Create the spool directory and error log file registered to /etc/printcap file.

Example: To create the spool directory "pboxlp" and error log file "pboxlp_errs".

- # mkdir /usr/spool/pboxlp
- Create the spool directory Create the error log file
- # touch /usr/spool/pboxlp/pboxlp_errs Create the error # chown -R daemon /usr/spool/pboxlp Change the ov
- # chgrp -R daemon /usr/spool/pboxlp
- Change the owner to daemon
- p Change the group to daemon



- 1-4 Check whether the lpd (printer daemon) is activated. # ps aux \ grap lpd
 - If lpd is not working, run the following command using a super user account. #/usr/lib/lpd&
- 1-5 Enable the print queue configured.# lpc restart pboxlp
- 2. Start printing.
 - 2-1 Use the "lpr" command. # lpr -P pboxlp <print file name>
- 3. Cancel the print request.
 - 3-1 The print job request can be cancelled by using "lprm" command. # lprm -Ppboxlp <job number>
- 4. Check the printer status.
 - 4-1 The printer status can be checked by using "lpq" command.



-Certain UNIX specifications fail to display the status correctly.

-lpq short format is UNIX compatible but the long format is specific to PRICOM to display the printer status.

Example: In case of short format # Ipd -P pboxlp Example: In case of long format # Ipd -I -P pboxlp



Using PRICOM in Linux Environment

This section explains how to print from Linux.

Command absolute path and setting method may vary depending on OS version. Refer to your workstation manual for more details.



-For print queue creating tool of Red Hat Linux and Turbo Linux, refer to "Using Red Hat Linux print queue creating tool" and "Using Turbo Linux print queue creating tool", respectively.

(1)

- 1. Prepare the print queue.
 - 1-1 Log in to the Linux machine through "root". # login root

1-2 Register the PRICOM to /etc/printcap file.

Example: To register a print queue by the name "pboxlp".

pboxlp:\

.\	(1)
:lp=:rm=pbox:rp=lp:\	(2)
:sd=/usr/spool/pboxlp:\	(3)
:lf=/usr/spool/pboxlp/pboxlp_errs:	(4)

<Description of parameters>

- (1) Describes the printer name.
- (2) Ip: Device file name to connect printer.
 - No name designation required on the network.
 - rm: Host name for the remote printer
 - Type the host name registered to /etc/hosts file.
 - rp: Remote printer name.
 - PRICOM remote printer name; select either lp, sjis or euc.
- (3) sd: Spool directory name. Must be the absolute path.
- (4) If: Error log file name. Must be the absolute path.

1-3 Create the spool directory and error log file registered to /etc/printcap file.
Example: To create the spool directory "pboxlp" and error log file "pboxlp_errs".
mkdir /usr/spool/pboxlp
Create the spool directory
touch /usr/spool/pboxlp/pboxlp_errs
Create the error log file
chown -R daemon /usr/spool/pboxlp
Change the group to daemon



1-4 Check whether the lpd (printer daemon) is activated.

ps aux / grap lpd

- If lpd is not working, run the following command using a super user account. #/usr/lib/lpd&
- 1-5 Enable the print queue configured.# lpc restart pboxlp
- 2. Start printing.
 - 2-1 Use the "lpr" command. # lpr -P pboxlp <print file name>
- 3. Cancel the print request.
 - 3-1 The print job request can be cancelled by using "lprm" command. # lprm –Ppboxlp <job number>
- 4. Check the printer status.
 - 4-1 The printer status can be checked by using "lpq" command.

Using Print Queue Creation Tool of Red Hat Linux



This section explains how to print using print queue creation utility of Red Hat Linux 7.1.
 Note that some steps may vary depending on Red Hat Linux version.

Example: IP address "192.168.10.100" and Host name "pbox" are registered to etc/hosts file and print queue is to be registered by the name "pboxlp".

- 1. Select *Main menu*, then *Programs*, then *System*, then *Setting printer*.
- 2. Click *New* in the [printconf.gui] screen.
- 3. Click Name and alias, then type pboxIp in Printer name, then click Add.
- 4. Type *pboxlp* in *Alias*, then click *OK*.
- 5. Click *Printer type*, then select *LPD*. Type *pbox* in the server and *lp* in the printer.
- 6. Select *Printer driver* and *Printer option* that correspond with your operating environment.
- 7. After configuration is complete, click OK in [Printer edit].
- 8. Verify that the printer created is displayed and selected in the [printconf.gui]. Click *Apply*.
- 9. Verify the dialog message, "Ipd has been successfully rebooted", then Click OK.
- 10. Click **Test** in [printconf.gui] screen. When you get test page, the configuration is complete.

Using the Print Queue Creation Tool of Turbo Linux



-This section explains how to print using print queue creation utility of Turbo Linux6.0. Note that some steps may vary depending on Turbo Linux version.

Example: IP address "192.168.10.100" and Host name "pbox" are registered to etc/hosts file and print queue is to be registered by the name "pboxlp".

- 1. Select *Main menu*, then *Turbo Linux tool*, then *Turbo Centro*.
- 2. Click Turboprintcfg in the Turbo Centro-GT.
- 3. Click Add in Setting printer screen.
- 3-1 Select *Remote LPD queue* in *Add printer*.
- 3-2 Type *pboxIp* in *New queue name*.
- 3-3 Click *Change* in *LPD configuration* of *Change printer configuration*.
 3-3-1 Type "pbox" in Host name.
 3-3-2 Type "lp" in Queue name.
- 3-4 Click **Change** in Printer type, then select the printer driver that corresponds with your operating environment.
- 3-5 Select **Paper size** and **Color depth** that correspond with your operating environment.
- 4. Click **OK** in the [Printer configuration].
- 5. Click **Save and Finish** to complete the configuration.

Printing Using FTP

This section explains how to print using FTP of TCP/IP.

For further information on "ftp" command, refer to your workstation manual.



About FTP

FTP (File Transfer Protocol) is a protocol used to transfer a file by TCP/IP. By transferring data to PRICOM logical directory, printing can be executed.

Logical directory

PRICOM is provided with 3 logical directories for correct printing and should be transferred by [cd] command.

To print a file using a printer driver, go to "lp" directory; to print a text file after converting it into shift JIS KANJI code file, go to "sjis" directory; to print a text file after converting it to EUC KANJI code text file, go to "euc" directory. And then transfer the converted file.

<PRICOM logical directory structure>

1		Root
	lp	Output Directly
	sjis	Output after converted to shift JIS KANJI code
	euc	Output after converted to EUC KANJI code



Printing

1. Log in to PRICOM.



-When printing using "ftp" command, any input to "User" and "Password" will not disturb printing job unless "root" is used in "User". When the "User" name is "root", type the password configured in environment settings.

Example: To log in to a printer whose host name is "pbox" (or to log in to a printer having IP address "192.168.10.100").

#ftp pbox (or ftp 192.168.10.100)
Connected to pbox
220 PRICOM xxxxx Ver 1.0.0 FTP Server.
User(silex:root): root
331 Password required.
Password:
230 User Logged in.
ftp>

2. Using "cd" command to move to destination directory.



-PRICOM has hierarchical structure for destination directory. Print data to the root directory is processed as output to "Ip".

Example: To move to Ip directory and verify the current directory.

ftp>cd /lp 250 Command Ok. ftp>pwd 257 "/lp" is current directory. ftp>



3. Changing transfer mode.



-There are two kinds of transfer modes. The "ASCII" mode converts LF code to CR+LF code, and the "BINARY" mode transfers file contents. To transfer binary-converted file from the printer driver, configure the transfer mode to "BINARY" (otherwise, ASCII mode is used).

Example: To change transfer mode to BINARY and verify the current mode.

ftp>type binary
200 Type set to I.
ftp>type
Using binary mode to transfer files.
ftp>

4. Transfer the print data to PRICOM using "put" command in file form. There are two formats for transferring a file using "put" command.

Example: To transfer print data "test.prn". ftp>put test.prn

To transfer print data to the directory specified by "/users/test/test.prn". ftp>put /users/test/test.prn /lp



-When printing data by specifying the directory, specify the destination logical directory. Not necessary to move directory using the cd command.

5. Use "quit" command to log out from PRICOM. ftp>quit

Checking the status

ex



-By using "stat" of "quote" command, IP address, use name for log in and transfer mode can be verified.

-By specifying the directory (Ip, sjis, euc) following "stat", the printer status can be checked.

Example: To display the Ethernet board status.

ftp>quote stat
211-FTP server status:
Connected to: 192,168,10,100
User logged in: guest
Transfer type: BINARY
Data connection:Closed.
211 End of status.
ftp>

To display the printer status (directory name: lp).

```
ftp>quote stat /lp
211-FTP directory status:
Ready
211 End of status.
ftp>
```