

7. Using PRICOM in Macintosh

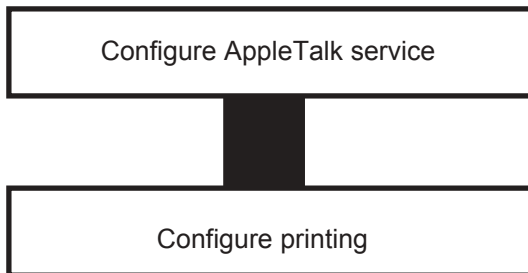
This chapter explains how to configure PRICOM to print from Macintosh and how to configure in details or modify the configuration using AdminManager (Macintosh).



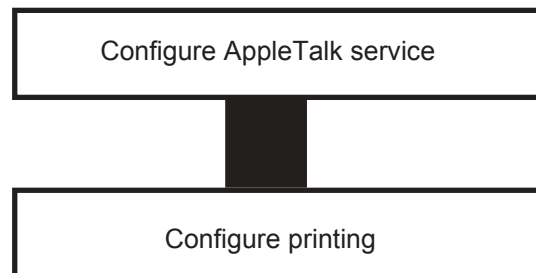
-PRICOM is designed to work with Macintosh/Power Macintosh operating on MacOS 7.6 or above. AppleTalk Phase1 is not supported. As to Mac OS X, v10.1 or above is supported.

<Procedure to print in Macintosh environment>

In case of initial installation and printing
(Administrator)



In case of printing
(Client)



Printer Configuration and Printing

This section explains how to configure PRICOM to print using AppleTalk.



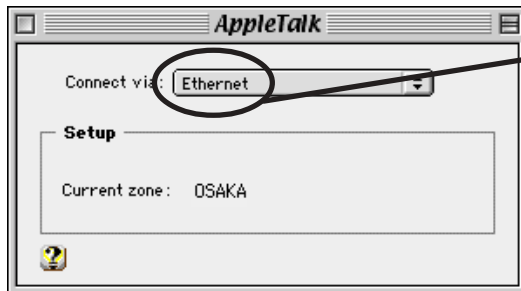
TIP

-Configuration method may vary depending on Macintosh in use. For further information, refer to your Macintosh manual.

Mac OS 7/8/9

Configure AppleTalk Service

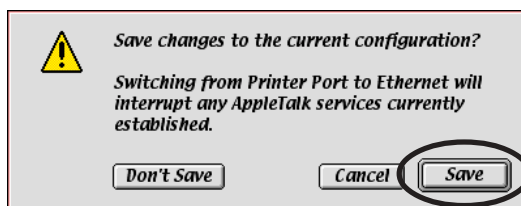
1. Click **Apple menu**, then **Control Panel**, then **AppleTalk**.



Select **Ethernet**.

- 2.

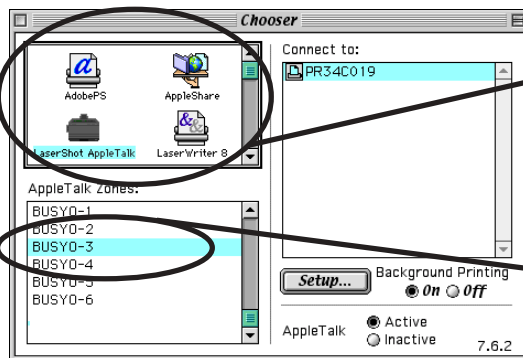
Once AppleTalk directory has been selected and close the dialog, configuration confirmation



Click **Save**.

Printing

1. Select Apple menu, then Chooser.
2. Select the driver for the printer connected to PRICOM. If zone is found, select the zone to which PRICOM belongs. PRICOM name will appear.



Select **printer driver**.

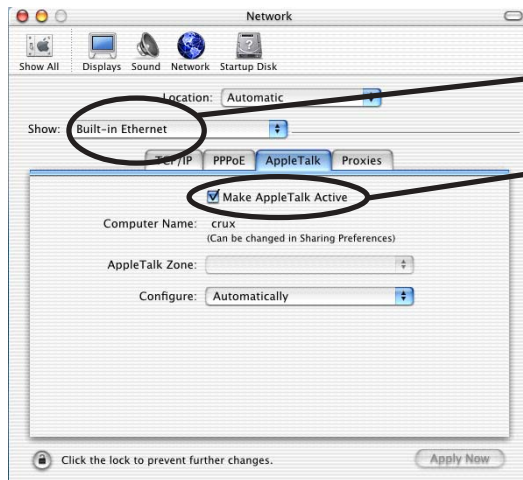
Select **zone name**

3. Now, PRICOM can print on the network from Macintosh environment. Make sure that printing can be executed properly using application such as SimpleText.

Mac OS X

Configure AppleTalk Service

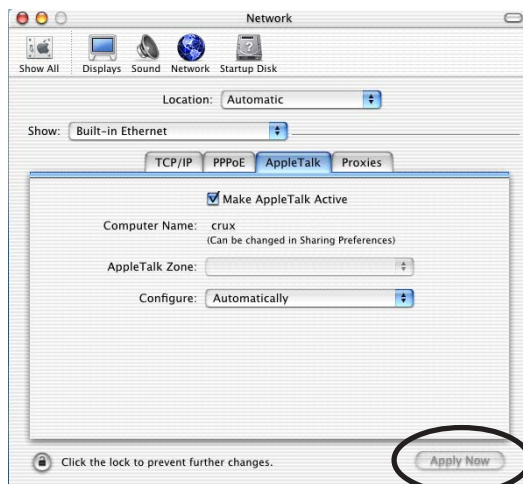
1. Click **Apple menu**, then **System Preferences**, then **Network**.



Select the network port to be used.

Check in **Make AppleTalk Active**.

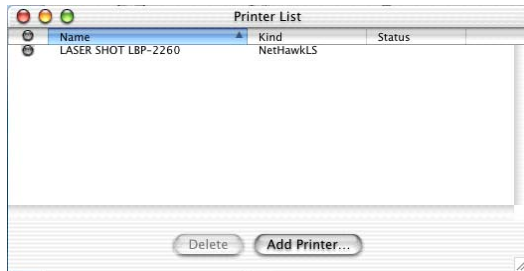
2. AppleTalk Service configuration is complete.



Click **Apply Now**.

Printing

1. Click **Go**, then **Applications**, then **Print Center**, then **Printer List** after selecting Finder to select the printer connected to PRICOM.



NOTE

-If the printers connected to PRICOM are not displayed, click Add printer and add printer as following the steps.

2. Now, PRICOM can print on the network from Macintosh environment. Make sure that printing can be executed properly using application such as SimpleText.

AdminManager (Macintosh)

When setting PRICOM in Macintosh environment, use AdminManager (Macintosh).



TIP

-If OpenTransport 1.1.2 or later version is not installed on the Macintosh PC, AdminManager (Macintosh) cannot run. Download the OpenTransport 1.1.2 or higher version from Apple Web site and install it on your PC.

-AdminManager (Macintosh) bundled with PRICOM uses TCP/IP protocol. TCP/IP and MacTCP must be configured.

TCP/IP (MacTCP) Configuration

This section explains how to configure TCP/IP (MacTCP) to your PC.



TIP

-The below description is for Mac OS 7/8/9. If you use Mac OS X, the displayed screen may vary.

1. Click **Apple menu**, then **Control Panel**, then **TCP/IP (MacTCP)**.
2. Assign an IP address.

When assigning IP address manually.

Select **Manually**.

Enter the IP address.

When assigning IP address using DHCP/BOOTP/RARP server.

Select either **Using DHCP Server**, **Using BOOTP Server** or **Using RARP Server**.



NOTE

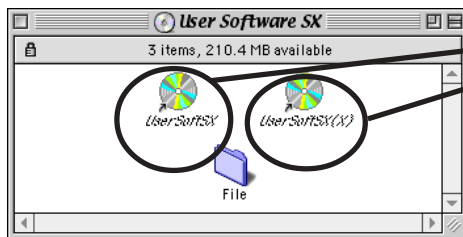
-For detail configuration of DHCP BOOTP/RARP server contact network administrator.

3. Configuration of TCP/IP (MacTCP) is complete.

Installing AdminManager

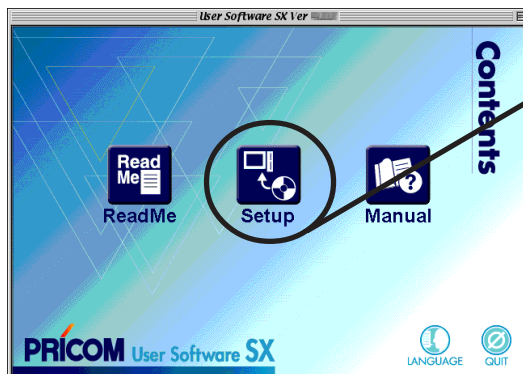
This section explains how to install AdminManager to your Macintosh.

1. Insert the User Software SX in the CD-ROM drive of your Macintosh PC. The main menu screen will be displayed.
2. Select UserSoftSX.



Double-click either of the icons corresponding to your OS version.
 UserSoftSX (X): Mac OS X
 UserSoftSX : Mac OS 7/8/9

3. The below screen will be displayed.

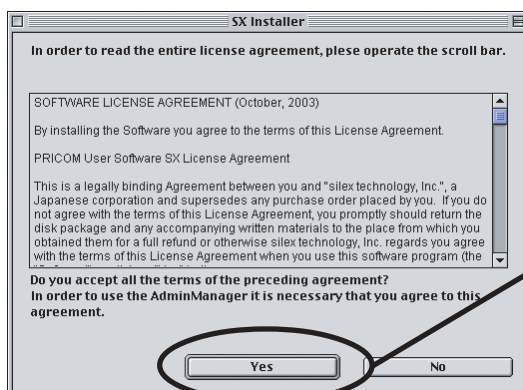


Click **Setup**.



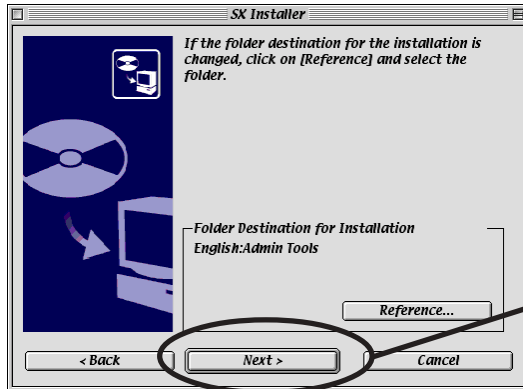
-If you select the language you want to use in the **Language** of Mac OS X, menu screen will be displayed.

4. Confirm the Software License Agreement.



Read the agreement and click **Yes** if you accept it.

5. Select the folder destination for installation.



Click **Next**.



NOTE

-If you want to change the folder destination, click **Reference**, then specify the folder destination for installation.

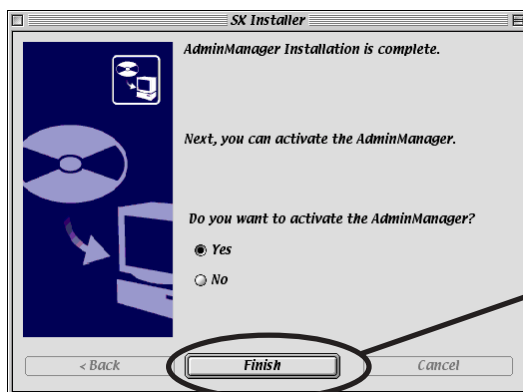


TIP

-You can install AdminManager only to the authorized folder in Mac OS X.

6. Installation is complete.

You can activate AdminManager following the installation.

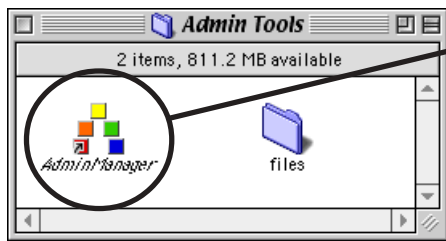


Click **Finish**.

Assigning the IP Address to PRICOM

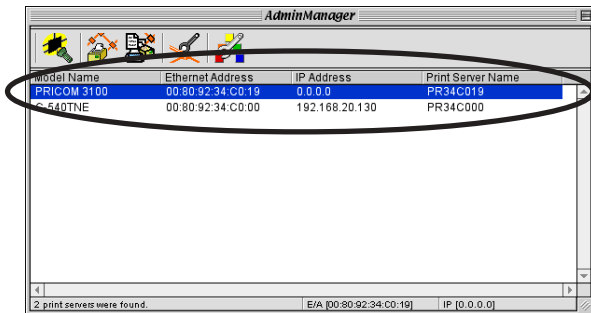
You need to assign the IP address to PRICOM if you want to configure PRICOM using AdminManager.

1. Open the folder containing the AdminManager and then double-click the AdminManager.



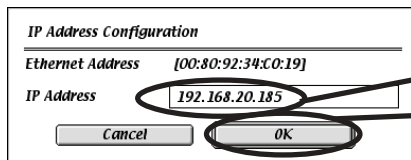
Double click **AdminManager**

2. When AdminManager starts, products in the network are automatically searched and the list will be displayed.



Select PRICOM to be configured and double-click it.

3. Assign the IP address.



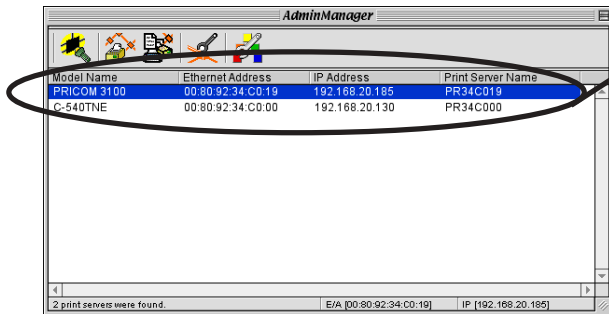
Type the IP address.

Click **OK**.

4. Restart PRICOM.

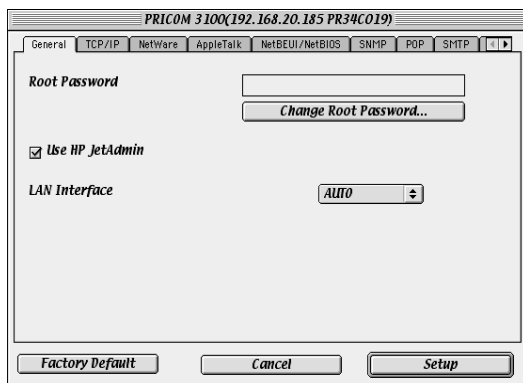
5. Click **File**, then **Search** and research PRICOM.

6. Select PRICOM from the list.



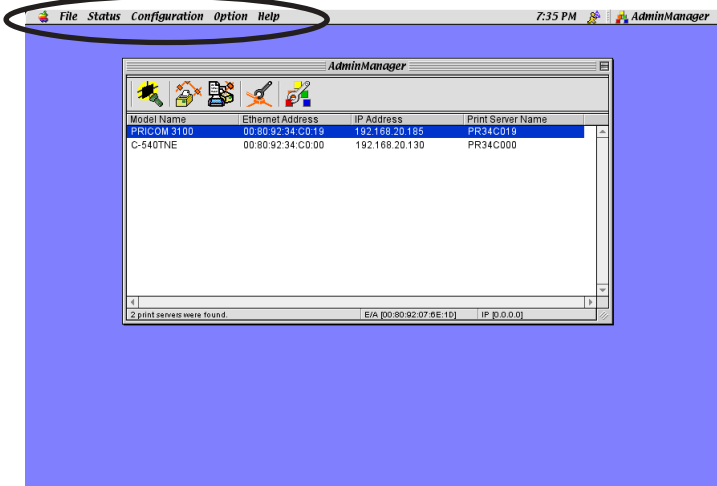
Select PRICOM to be configured and double click it.

7. AdminManager configuration screen will appear.



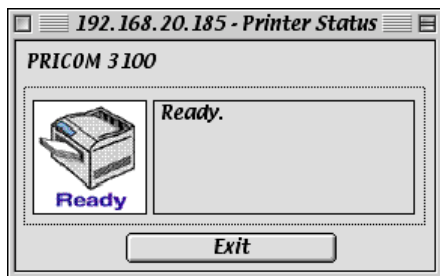
Structure of Menu Bar

<Menu screen>

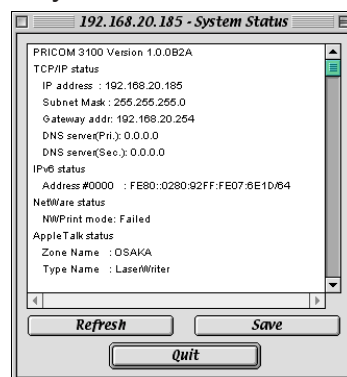


	Item	Description
Apple Menu	About	Displays AdminManager version
File	Search	Searches PRICOM in the network
	Exit	Quit the AdminManager
Status	Printer Status	Displays printer status monitor
	System Status	Displays system status monitor
Configuration	Print Server Configuration	Configure various option of PRICOM
	Restart	Reboots PRICOM
	Diagnostic Status Page	Performs self-diagnostic print of PRICOM
	Set IP address	Manual configuration of IP address
Option	Search using TCP/IP Protocol	Search PRICOM using TCP/IP
	Search using AppleTalk Protocol	Search PRICOM using AppleTalk
	Environment Setting	Configure AdminManager environment
Help	About Balloon Help	Displays information about using the items in the Help menu.
	Show balloons	Displays description of balloon help (Mac OS 7/8/9 only)

<Printer status>

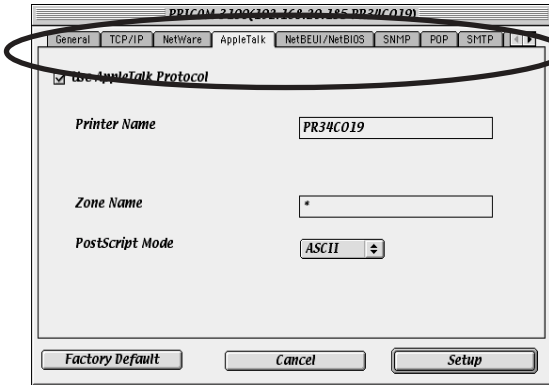


<System status>



Menu

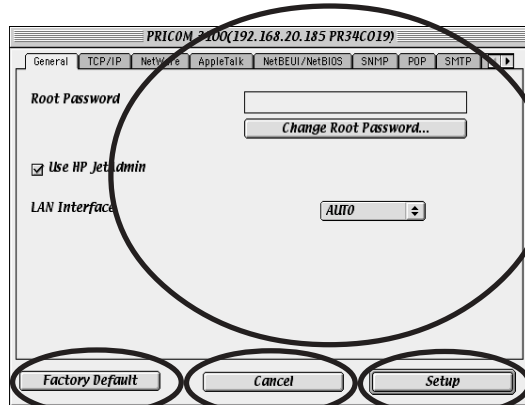
This section explains about menu.



Select the item to be configured.



-Use the scroll bar in case the item to be configured does not appear.



Detail configuration for each configured items will be displayed. Configure corresponding to your need.

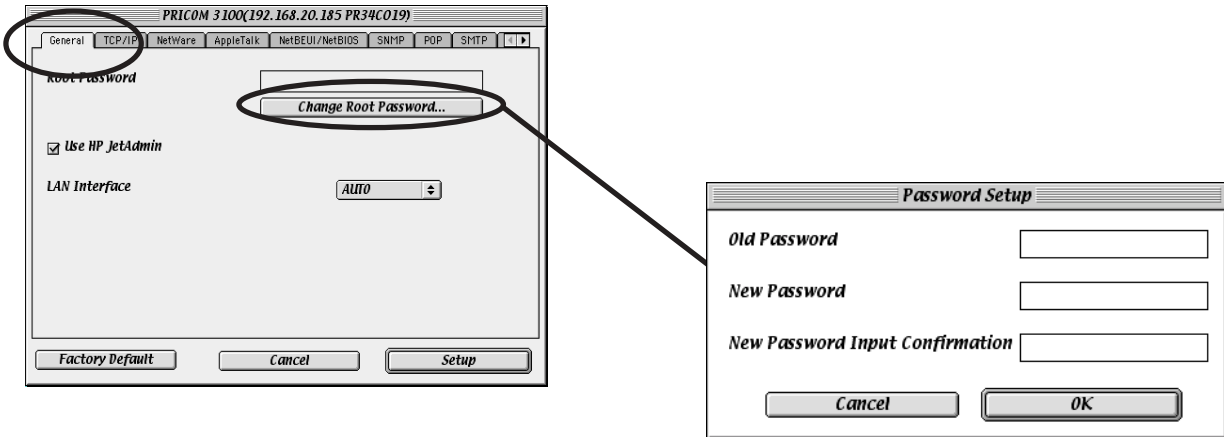
Factory Default
Reset PRICOM to factory default.

Cancel
Quit the process without saving the configuration.

Setup
Quit the process after saving the configuration.

General Configuration

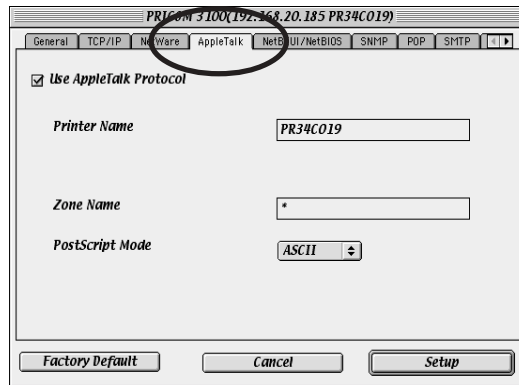
If you click **General** on **PRICOM** configuration screen, the below screens will be displayed.



Tab	Item	Description	Factory Default
General	Root Password	Please enter the password.(in ASCII TEXT) This password will be used for configuration changes via Telnet, Web page and Setup Tools.	-
	Change Root Password	The input screen for root password opens.	-
	Use HP JetAdmin	Please select whether you want to use HEWLETT PACKARD's JetAdmin/WebJetAdmin.	DISABLE
	LAN Interface	Please select the network speed. It is recommended to select "AUTO". If you select "AUTO", the network speed will be detected automatically. If the HUB did not link when you switched on your print server (you can check the HUB's LINK LED), please try a different network speed manually.	AUTO

AppleTalk Configuration

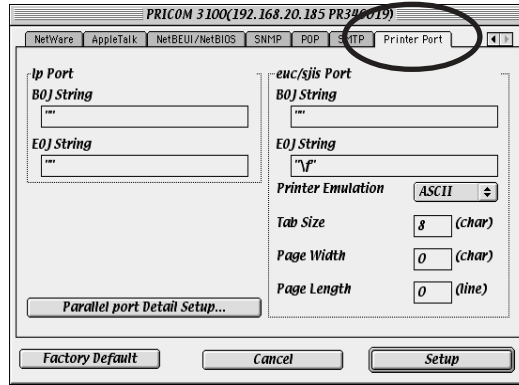
If you click **AppleTalk** on PRICOM configuration screen, the below screen will be displayed.



Tab	Item	Description	Factory Default
AppleTalk	Use AppleTalk Protocol	Enable/ Disable AppleTalk Protocol operations.	ENABLE
	Printer Name	Set the AppleTalk printer name. The name set here can be seen in the Chooser. The special symbols in AppleTalk protocol ("=", ":", "@ and "*") must be excluded from the string.	PRxxxxxx (The last 6 digits of Ethernet address)
	PostScript Mode	When the PostScript printer supports binary mode, PostScript data can be sent in binary. Select BCP or TBCP in accordance with the mode of your printer. Use TBCP when PS binary data is printed by a particular printer. Select ASCII (default) when a printer other than a PostScript one is connected.	ASCII
	Zone Name	The print server sets the zone name where it belongs. If the value is blank, this product will belong to the default zone, set in the AppleTalk Router within the network.	*

Printer Port Configuration

If you click **Printer Port** on PRICOM configuration screen, the below screen will be displayed.



Tab	Item	Description	Factory Default	
Printer Port	lp Port	BOJ String	Specify the string to be transmitted to the printer before output to the direct output port (lp port). Specify the string when a control code, etc. needs to be sent before printing.	-
		EOJ String	Specify the string to be transmitted to the printer after output to the direct output port (lp port). Specify the string when a control code, etc. needs to be sent after printing.	-
	euc/sjis Port	BOJ String	Specify the string to be transmitted to the printer before output to the port via a Kanji filter (sjis/euc). Specify the string when a control code, etc. needs to be sent before printing. (Kanji - double sized character for Japanese)	-
		EOJ String	Specify the string to be transmitted to the printer after output to the port via a Kanji filter (sjis/euc). Specify the string when a control code, etc. needs to be sent after printing. (Kanji - double sized character for Japanese)	\f
		Printer Emulation	Configure to correspond with the PDL(Printer Description Language). The printing data will be converted to a code that corresponds to the printer emulation in outputting to the output port via Kanji filter (sjis/euc). (Kanji - double sized character for Japanese)	ASCII
	Tab Size	Specify the number of characters to convert the tab code (0x09) to half size (single-byte) space (0x20) in outputting via a Kanji filter. When the value is 0, the tab is not converted. The value is from 0 to 16. (Kanji - double sized character for Japanese)	8	

Tab	Item	Description	Factory Default	
Printer Port	euc/sjis Port	Page Width	Specify the number of characters in a line when outputting via Kanji filter. The value is from 0 to 255. (Kanji - double sized character for Japanese)	0
		Page Length	Specify the number of lines on a page when outputting via Kanji filter. The value is from 0 to 255. (Kanji - double sized character for Japanese)	0
	parallel port Detail Setup	Bi-directional Mode	Specify the operation mode of the parallel port. You can obtain printer status from a printer that supports bi-directional transmission by setting the bi-directional mode.	NONE
		Parallel Port I/F Timing	Specify the transfer speed of data for the parallel port. Specify the appropriate mode because processing depends on the capacity of the printer connected.	Standard

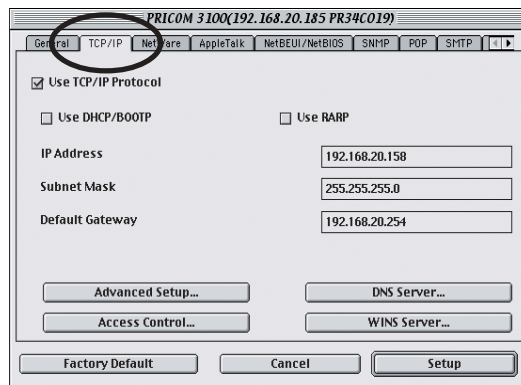
Configuring Other Protocols

You can configure other protocols using AdminManager.

When using PRICOM only in Macintosh environment, the following configuration is not required.

TCP/IP Configuration

If you click **TCP/IP** on PRICOM configuration screen, the below screen will be displayed.



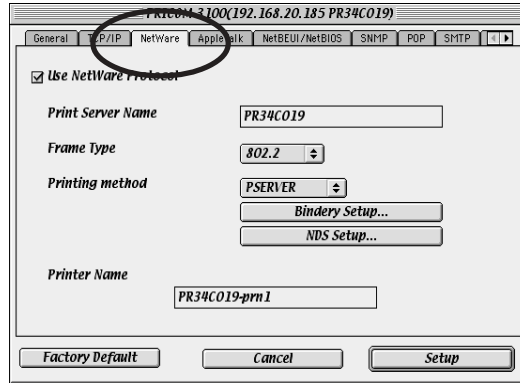
Tab	Item	Description	Factory Default
TCP/IP	Use TCP/IP Protocol	Enable/Disable TCP/IP protocol operations. This has influence on the configuration of Setup Tools, LPR, FTP, TELNET, SNMP, HTTP and other protocols over TCP/IP.	ENABLE
	Use DHCP/BOOTP	Enable/Disable DHCP/BOOTP protocol operations. DHCP/BOOTP is a protocol, via which IP address gets assigned by the BOOTP server or DHCP server. If you use DHCP/BOOTP server, the DHCP/BOOTP server must be in the same segment as the print server. This print server detects DHCP and BOOTP automatically. If more than 1 address get returned, the IP address which is returned first will be used.	ENABLE
	Use RARP	Enable/Disable RARP protocol operations. RARP is a protocol, via which IP address gets assigned by the RARP server. If you use RARP server, the RARP server must be in the same segment as the print server.	ENABLE
	IP Address	Setting the Print Server IP address. The IP address must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0

Tab	Item	Description	Factory Default	
TCP/IP	Subnet Mask	Setting the print server subnet mask. The subnet mask must be 4 numbers, each between 0-255 (eg. 255.255.255.0). However, entering 0.0.0.0 would not be valid, and the subnet mask corresponding to the IP address would be used automatically.	0.0.0.0	
	Default Gateway	Setting the default gateway address. The default gateway address must be 4 numbers, each between 0-255 (eg. 192.168.100.240). If you use a gateway, the gateway must be in the same segment as the print server. However, entering 0.0.0.0 would not be valid.	0.0.0.0	
	Use FTP/LPD Banner	You can select to use a banner page when printing with LPR and FTP. (A banner page is print cover page with print job explanations.)	DISABLE	
	DNS Server	Primary Server	Setting the DNS server (primary) address. When POP/SMTP server name is configured directly at IP address, the DNS server's setting is not necessary. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
		Secondary Server	Setting the DNS server (secondary) address. When POP/SMTP server name is configured directly at IP address, the DNS server's setting is not necessary. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
	WINS Server	Primary Server	Setting the WINS server (primary) address. WINS server will resolve the IP address from the host name. Therefore you can use a hostname instead of the IP address when printing. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
		Secondary Server	Setting the WINS server (secondary) address. WINS server will resolve the IP address from the host name. Therefore you can use a hostname instead of the IP address when printing. The values must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
		Scope ID	The scope ID defines the computer group that recognized the registered host name.	-

Tab	Item	Description	Factory Default	
TCP/IP	Advanced Setup	Use IPv6 Function	Enable IPv6 if you use IPv6.	DISABLE
		Use NetworkPnP	Enable NetworkPnP if you use NetworkPnP.	ENABLE
		Use Rendezvous	Enable Rendezvous if you use Rendezvous.	ENABLE
		Rendezvous Name	Specify a Rendezvous name.	"RDVxxxxxx" (xxxxxx is the last 6 figures of the Ethernet address)
		Use ThinPrint	Enable/Disable ThinPrint operations. (Only TCP/IP model)	ENABLE
		ThinPrint Port Number	Configure the port number to use ThinPrint. (Only TCP/IP model)	4000
	Access Control	Set IP filter	Setting of IP filter operations. Available options are "ALLOW" and "DENY". If you select "ALLOW", only the data from the set IP address range are accepted. If you select "DENY", the data from the set IP address range can not be received.	DENY
		IP Address range	Setting IP filter range. IP addresses to be filtered can be set to maximum 4 address ranges. If address range setting is not required, please enter the address range from "0.0.0.0" to "0.0.0.0".	0.0.0.0

Netware Configuration

If you click **Netware** on PRICOM configuration screen, the below screen will be displayed.

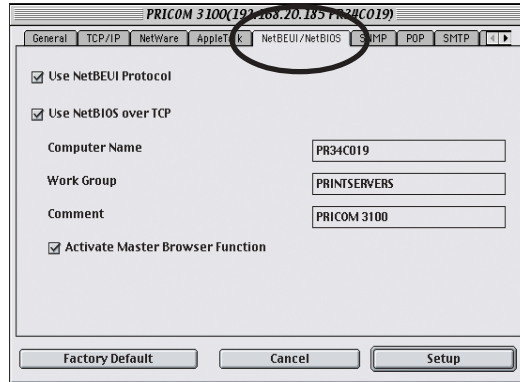


Tab	Item	Description	Factory Default
NetWare	Use NetWare Protocol	Enable/Disable NetWare protocol.	ENABLE
	Print Server Name	Specify the print server name for the print server when starting in PSERVER mode. Because this configuration is used as the identifier on the network in the NetWare protocol, the print server name set must be different from other names in the NetWare environment. It is used as a login name in connecting to the NetWare server.	PRxxxxxx (The last 6 digits of Ethernet address)
	Frame Type	Select the default frame type of the print server. If the set frame type does not work, it will be changed to a different frame type automatically.	802.2
	Printing method	Select the primary operation mode (PSERVER mode / RPRINTER mode) of the print server. If the set mode does not work, the print server starts in a different mode.	PSERVER
	PSERVER	Send the job via NetWare.	
	Bindery Setup	NetWare File Server to be connected	Set the name of the file server primarily connected to. The print server logs into the file server set here when operating in PSERVER mode. The print server searches the file server automatically and logs in if the value is blank.

Tab	Item	Description		Factory Default		
NetWare	Printing method	PSERVER	Bindery Setup	Login Password Set the password that is authenticated when the print server logs into the file server as a PSERVER mode. When the password is set for the print server, the same password must be set to the corresponding file server. If the print server is connected to two or more file servers, the same password must be set to	-	
			Job Polling Interval	Set the interval for the print server to query the file server for jobs in units of seconds. Usually the value should be the	4	
			NDS Setup	NDS Tree Name Specify the name of the NDS tree connected to. Because the tree name is obtained automatically, it is usually unnecessary to specify it here. When there are two or more trees on the same network it is necessary to specify the	-	
			NDS Context	Specify the NDS context connected to in PSERVER mode. The context which created the print server on the file server should be specified here.	-	
		Job management can be performed via NetWare server.				
		RPRINTER	RPRINTER Setup	NetWare Print Server to be connected Set the name of the print server primarily connected to. This product connects to the print server set here when operating in RPRINTER mode. This product searches print server automatically and connects if the value is blank.	-	
			Job Timeout	Set the timeout value (in units of seconds) for the print server to determine the end of the job when operating in RPRINTER mode. Usually the value should be the	10	
			Printer Name	Set the printer name under print server information within the NetWare server. It must be the same as the "Printer Name" registered in the NetWare server.	PRxxxxx-Prn1 (The last 6 digits are Ethernet address)	

NetBEUI/NetBIOS Configuration

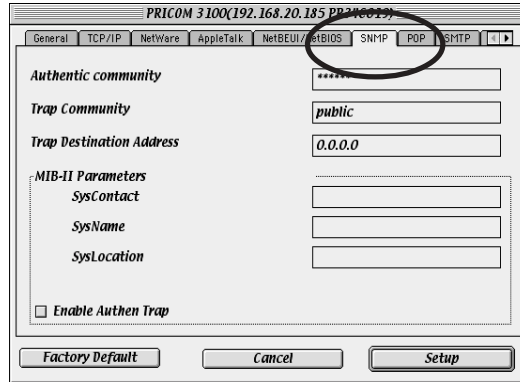
If you click **NetBEUI/NetBIOS** on PRICOM configuration screen, the below screen will be displayed.



Tab	Item	Description	Factory Default
NetBEUI/NetBIOS	Use NetBEUI Protocol	Enable/ Disable NetBEUI protocol operations.	ENABLE
	Use NetBIOS over TCP	Enable/ Disable NetBIOS over TCP operations.	ENABLE
	Computer Name	Specify a computer name. The name set here is shown as a computer in Windows Explorer. The name must be different from those of other computers.	PRxxxxxx (The last 6 digits are Ethernet address)
	Work Group	Specify the workgroup that this print server belongs to. Enter the default workgroup name or an existing workgroup name. A new workgroup name that does not exist in the network is not shown as Workgroup.	PRINTSERVERS
	Comment	Set the description of the print server. The information set here is shown as the description (comments) of the print server in Windows Explorer.	PRICOM XXXXX
	Activate Master Browser Function	In NetBEUI or NetBIOS over TCP, you can specify whether to activate the master browser function.	ENABLE

SNMP Configuration

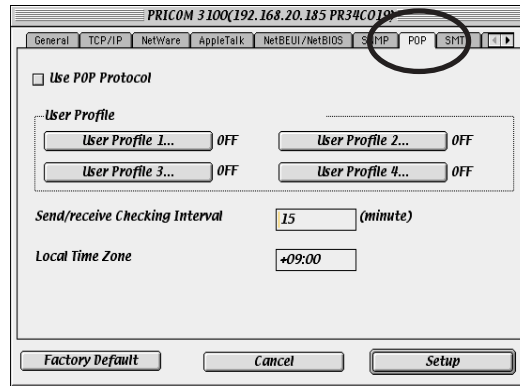
If you click **SNMP** on PRICOM configuration screen, the below screen will be displayed.



Tab	Item	Description	Factory Default	
SNMP	Authentic community	Specify the authentication community name of SNMP. This community name is authenticated when an SNMP set request is received.	public	
	Trap Community	Specify the trap community of SNMP. This community name is used when the print server send a trap.	public	
	Trap Destination Address	Specify the destination IP address of the SNMP trap. The value is a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx.xxx". When the value is "0.0.0.0"(default), this item is disabled and a trap will not be generated in any case.	0.0.0.0	
	MIB-II Parameters	SysContact	Specify the SysContact of the MIB-II object. The e-mail address of the network administrator is used.	-
		SysName	Specify the SysName of the MIB-II object. The host name or domain name of the print server is used.	-
		SysLocation	Specify the SysLocation of the MIB-II object. The location of the print server is used.	-
		Enable Authen Trap	Select whether to allow or disallow the "EnableAuthenTrap" of the MIB-II object. If a violation of the community occurs "allow" is the setting, the SNMP trap is sent to the IP address specified in "TRAP Address".	DISABLE

Mail Receiving Function (POP) Configuration

If you click **POP** on PRICOM configuration screen, the below screen will be displayed.

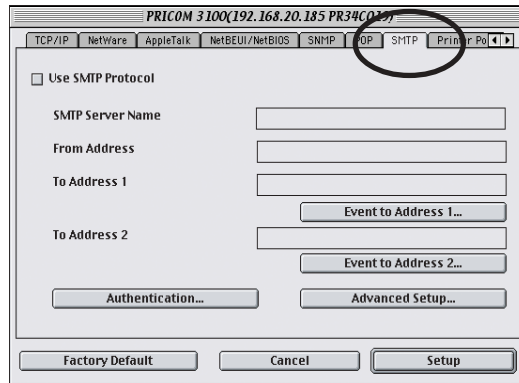


Tab	Item	Description	Factory Default	
POP	Use POP Protocol	Enable/Disable POP protocol operations. If operation is disabled, the e-mail RECEIVE function will be not available.	DISABLE	
	User Profile (1-4)	Use Ures Setup		ENABLE
		POP Server Name	Setting the hostname or the IP address of the e-mail server. If you use a domain name, you need a DNS server setup.	-
		POP User Name	Setting of Login name (User name) for e-mail account.	-
		POP Password	Enter password for e-mail server connection.	-
		POP Port Number	Setting POP port number. It is recommended to use the default port number (110).	110
	Advanced Setup	Use APOP	Enable/ Disable APOP setting at server. In order to use APOP, it is necessary that the e-mail server supports APOP.	DISABLE
		Delete Mail after Retrieval	The excluded E-mail is not deleted even if the item of "Delete Mail after Retrieval" is checked.	DISABLE
		Return a read receipt	The transmitting propriety of a notice that a POP e-mail has been received and is printing is setup. This notice e-mail will transmit based on the SMTP setup.	DISABLE
		Mail Retrieval Limit	E-mails with a size lager than specified are excluded from being processed.If you set "0", the size is not limited.	0
Filter Setting		With filter configuration, it is possible that only specific e-mails are printed. When null (empty string: default) is set, all e-mail is printed. You can configure filters by means of strings connected by "OR"(" ") or "AND"("&") and featuring four kinds of the items: "Subject"("S:string"), "To Address"("T:string"), "Carbon Copy"("C:string") and "From Address"("F:string").	-	

Tab	Item	Description	Factory Default
POP	Send/receive Checking Interval	Mail retrieval interval to the mail server is set in minutes.	15
	Local Time Zone	Setting the time zone. For use in Japan, please enter "+09:00".	+9:00

Mail Transmitting Function (SMTP) Configuration

If you click **SMTP** on PRICOM configuration screen, the below screen will be displayed.



Tab	Item	Description	Factory Default	
SMTP	Use SMTP Protocol	Enable/Disable SMTP protocol operations. If "Disable" is selected, e-mail "send" function is not available.	DISABLE	
	SMTP Server Name	Setting SMTP server host name. Entering domain name or IP address as host name. If a domain name is used, it is necessary to configure the DNS server.	-	
	From Address	Setting the sender address (From Address). Usually the e-mail address of the network administrator is set.	-	
	To Address (1-2)	Setting e-mail destination address (To Address).	-	
	Event to Address (1-2)	Offline	E-mail is sent while the printer is off line.	OFF
		Paper Empty	E-mail is sent when the printer is out of paper.	OFF
		Printer Error	E-mail is sent when abnormal conditions are encountered in the printer.	OFF
		Check Interval	In regular intervals the existence of events is checked. This interval is defined in minutes. If more than one event occurs within this interval, a bundled report is sent.	10
	Advanced Setup	SMTP Port Number	Setting the SMTP port number. It is recommended to use the default value (=25).	25
		Signature	Specify the signature string to be added at the end of an e-mail.	----- PRICOM XXXXX [00:80:92:XX:XX:XX] ----- (The last 6 digits of Ethernet address)
	Authentication	Use SMTP Authentication	Enable or disable SMTP authentication.	DISABLE
		User Name	Specify a SMTP user name.	-
		Password	Specify a SMTP password.	-

Printing Using Rendezvous

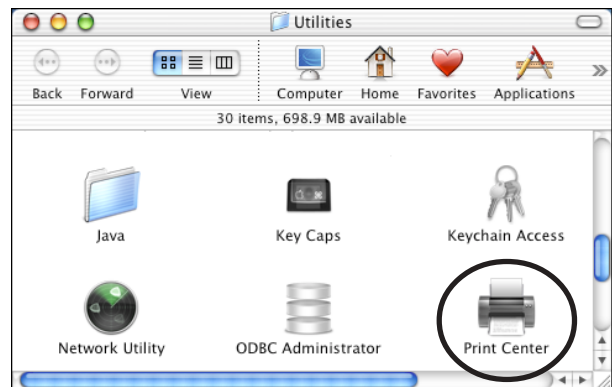
It is possible to print from a Macintosh using Rendezvous. Rendezvous is supported in MacOS X Ver10.2.3 and newer.



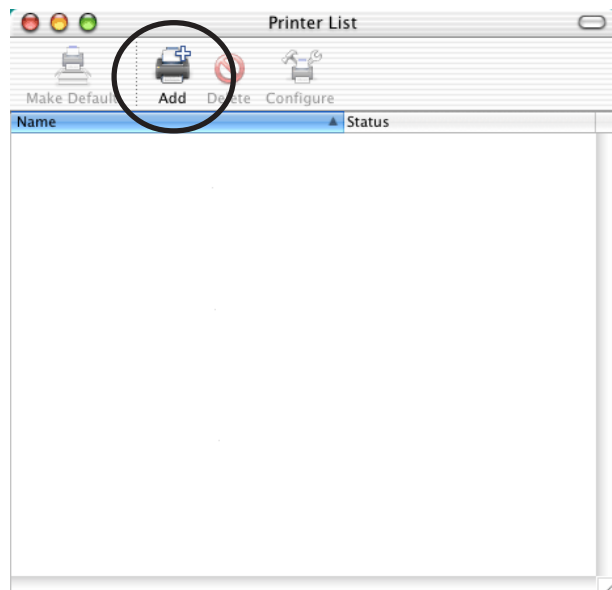
-In order to print from a MAC, the printer must support postscript printing.

TIP

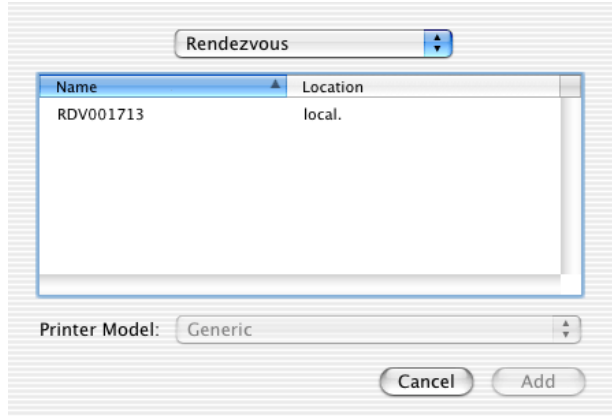
1. From **HDD** of the Macintosh, select - **Utility** - and then select **Print Center**.



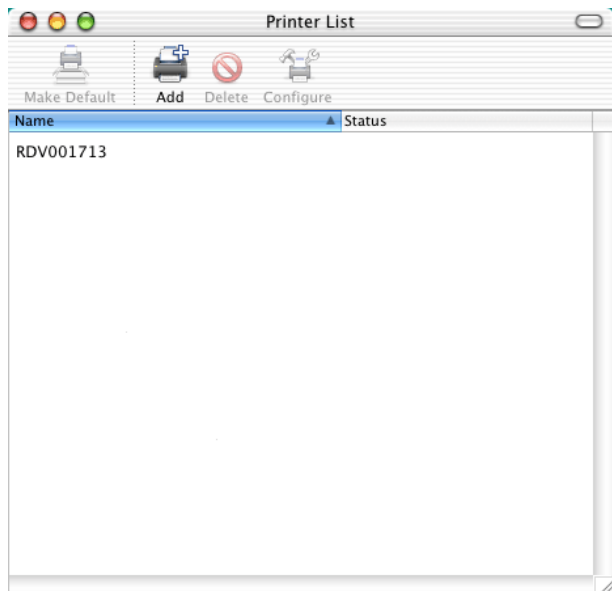
2. Click **Add**.



3. Change the protocol to Rendezvous.
After a while, a port list with this product will be displayed.



4. Choose the port with the printer connected to this product to complete the printing setup.



The printing setup is complete. Verify it works correctly by sending a test document (for example from Apple Text).