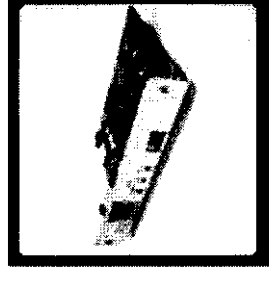
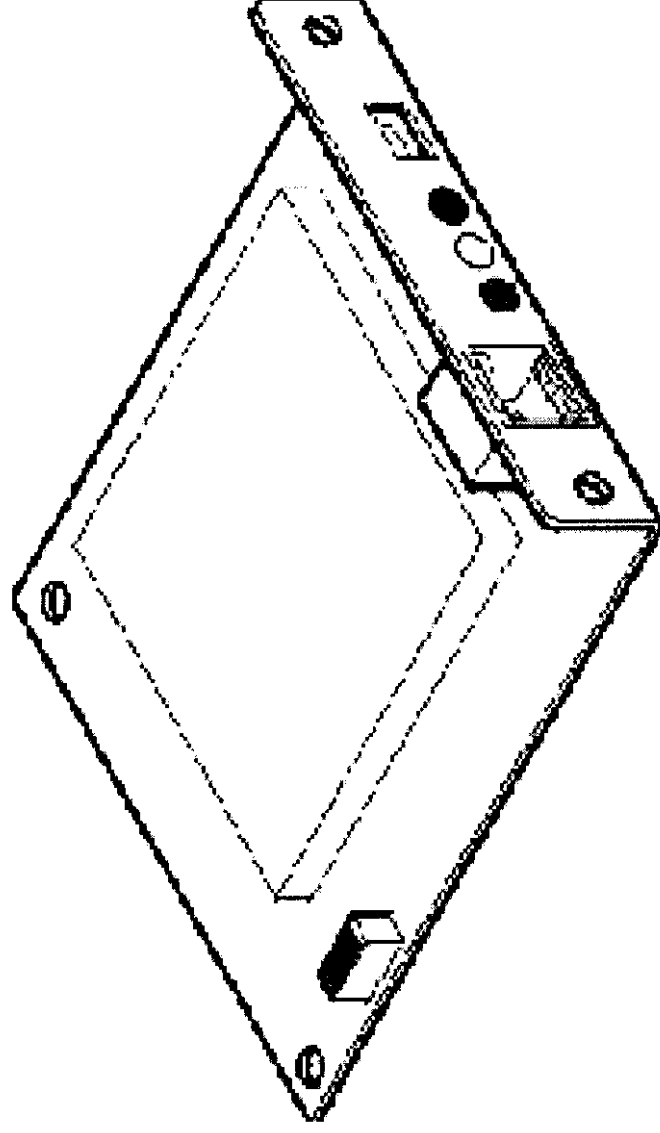


Ethernet Board 7100e Plus



User Manual

To start

Thank you for purchasing the EtherNet Board. This manual explains how to set up the EtherNet Board and connect it to the computer. Please use in conjunction with the User Manual. Voluntary control on interference to radio communications



This equipment is a Class A information technology equipment, which complies with the standards of VCCI. Interference to radio communications may occur if this equipment is used in a residential environment. If this is the case, the user is encouraged to use the appropriate measures [to correct the interference].

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

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3. The contents of this manual are supposed to be free of errors. In the unlikely event that questionable points, errors, omissions or the like are found in the manual, please contact your dealer.
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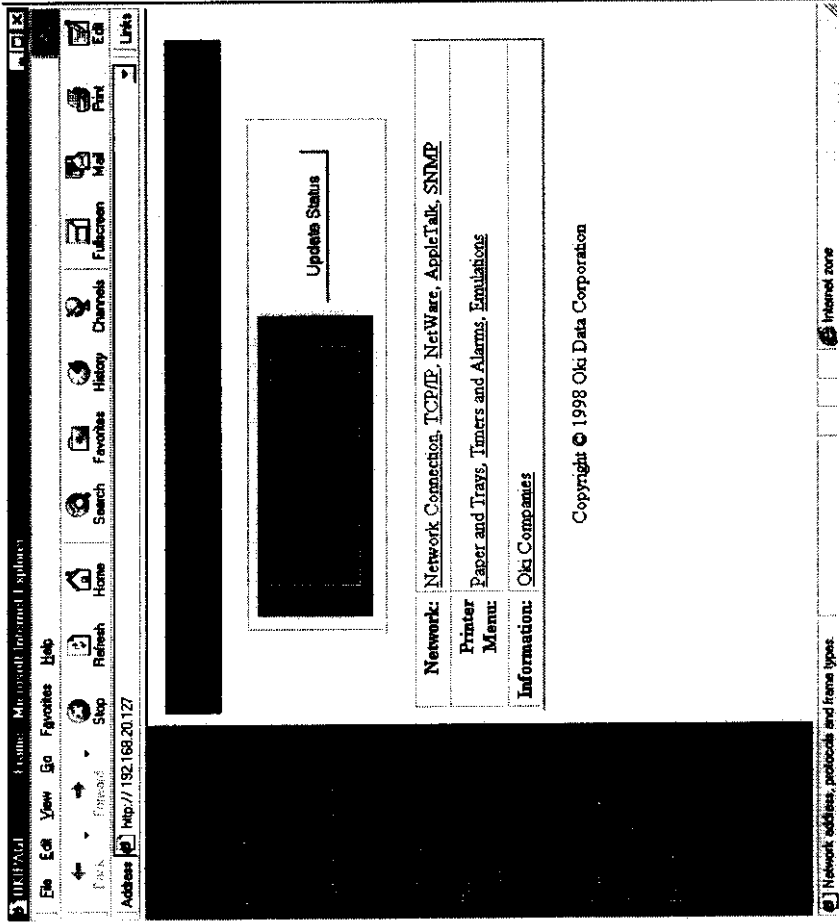
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- Click on the items you want to change in the left frame. The details screen of each item is displayed. For the details, see “Configuration Items” (Page 97).



Note ✓

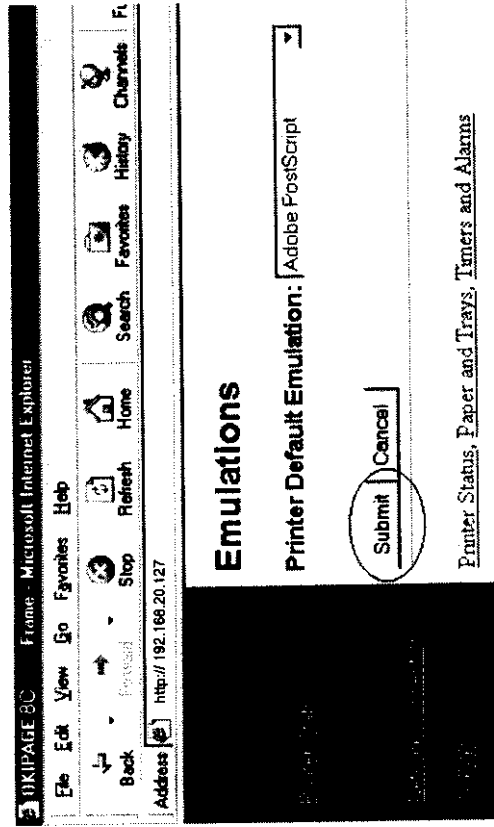
If Microsoft Internet Explorer is used

- In order to validate the “Status renewal” button of the “Printer status” screen, select “Internet Options” under the “View” menu of Microsoft Internet Explorer, click on “Settings” under the “Temporary Internet files” on the “General” tab, and select “Every visit to the page” under “Check for newer versions of stored programs”. Configure the same settings in the Web Browser used.*

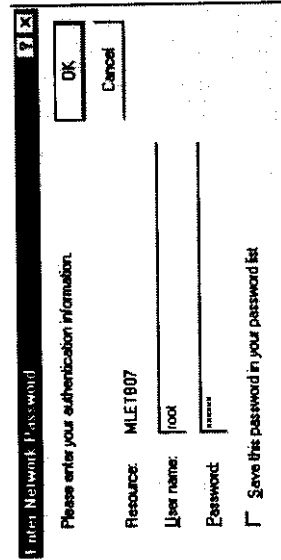
If Netscape Navigator is used

- In order to validate the “Status renewal” button of the “Printer status” screen, select “Settings” of the “Edit” menu of Netscape Communicator 4.04J, click on “Cache” under “Details” and set “Once per session” under “Document in cache is compared to document on network. Configure the same settings in the Web Browser used.*
- If the size of the Web Browser is changed immediately after changing the configuration, the dialog “Security information” may be displayed. In such a case, uncheck the “Display this message next time” in the dialog. Configure the same settings in the Web Browser used.*

4. After making the necessary changes, click on "Submit".



5. Type "root" in "User name" and the last 6 digits of the EtherNet address in "Password", and click on "OK".

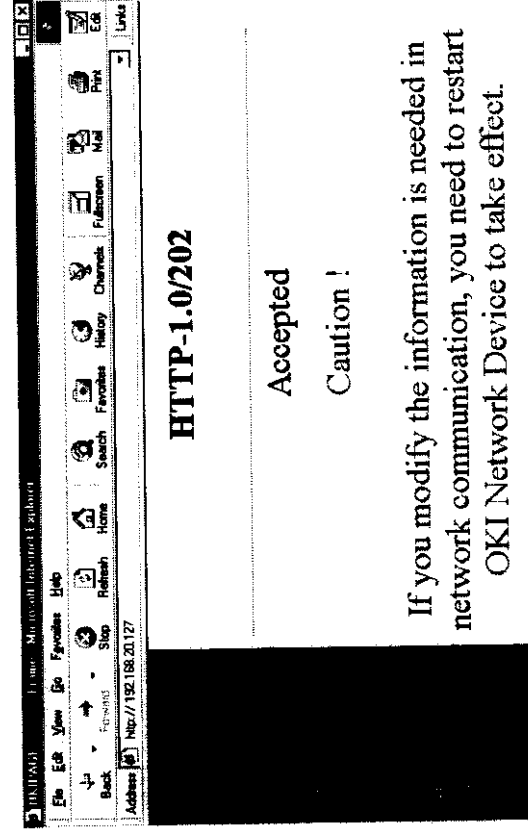


Note If the EtherNet address is "00:80:92:01:00:D2", type in "0100D2" as the password. On the screen, ***** will be displayed.



The EtherNet address (MAC address) will be displayed in the print menu of the printer.

Once the new values set are transmitted to the EtherNet Board, the following screen is displayed. If a different message is displayed, reconfirm if the values set are appropriate.



6. In order to validate the new values set, turn the printer off and then on again.

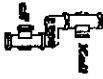
Note If the printer is not turned off and then on again, the EtherNet Board will continue to use the pre-transmission setting values. Make sure to turn the printer off and then on again.

Configuration items

For the details of each item, refer to “Contents of the EtherNet Board settings” (Page 131).



The configurable items may vary from one printer to another.

Network Connection		Configuration of the Network Basics	
 Network Connection Version : 1.0.0 MAC Address : 00:80:92:01:00:02	Protocol Option TCP/IP : ☐ ENABLE ☐ DISABLE NetWare : ☐ ENABLE ☐ DISABLE NetBEUI : ☐ ENABLE ☐ DISABLE EtherTalk : ☐ ENABLE ☐ DISABLE	Protocol Option Set “Enable” or “Disable” for each protocol.	Frame Options Set the frame type of the network.
Frame Options Frame Type : 802.2 ☐			

TCP/IP Settings Configuration of the TCP/IP protocol



TCP/IP Settings

DHCP/BOOTP (Obtain IP address automatically)	
DISABLE ☐	
RARP	
DISABLE ☐	
IP Address	192.168.20.127
Subnet Mask	255.0.0.0
Default GateWay	255.0.0.0

DHCP/BOOTP

If the IP address is automatically obtained using a DHCP/BOOTP server, set “Enable”. If a direct IP address is typed in, set “Disable”.

RARP

If the IP address is automatically obtained using a RARP server, set “Enable”. If a direct IP address is typed in, set “Disable”.

IP Address, Subnet Mask, Default GateWay

Type in the IP address, subnet mask and gateway allocated to the EtherNet Board, with 10 digits each “****.***.***.***”. If a DHCP/BOOTP server or RARP server is used, there is no need to configure the settings.

NetWare Settings		Configuration of the NetWare protocol					
NOVELL® NetWare Settings		NetWare Mode					
NetWare Mode: PSERVER		Determine if the operation mode of the EtherNet Board is a print server mode (PSERVER) or a remote printer mode (RPRINTER).					
Print Server Mode		Configuration when the EtherNet Board is used in the print server mode					
Print Server Mode NetWare Print Server Name: KL010002 (1-31 characters) Password: (1-31 characters) Job Polling Rate: 2 (2-255 seconds) Maximum Number of File Servers: 8 Bindery Mode: ENABLE NDS Tree Name: F (1-3) Context: F (1-7) File Servers for PServer Mode: <table><thead><tr><th>No.</th><th>File Server Name (1-31 characters)</th></tr></thead><tbody><tr><td>1</td><td>F</td></tr></tbody></table>		No.	File Server Name (1-31 characters)	1	F	Bindery Mode In the print server mode, if used from the NW4.1J bindery or NW3.12J, make sure that "Enable" is selected [for the bindery mode]. Select "Disable" only when using the NW4.1J NDS. Tree Name In the print server mode, type in the "Tree name" which is in the file server. The tree name can be up to 31 alphanumeric characters long. Context In the print server mode, type in the "Context name" which created the print server. The context name can be up to 31 alphanumeric characters long. File Server Name In the print server mode, type in the "File server name" which manages which manages the printer. Up to 8 file servers can be set. The file server names can be up to 31 alphanumeric characters long.	
No.	File Server Name (1-31 characters)						
1	F						

Remote Printer Mode

Configuring for the remote printer mode

Remote Printer Mode

Printer Name for R-Printer Mode (1-31 character)

Job Timeout (4-255 seconds)

Maximum Number of Print Servers: 8

No.	PrintServer Name (1-31 character)
1	f

Job Timeout

In the remote printer mode, the time period which lapses between the reception of the last printing until the job is completed and the port of the EtherNet Board released. If the value set is too short, if the packet is transmitted late printing may be disrupted. If the value is too high, it affects jobs of other protocols. Normally use the default. The value set is between 4 and 255 seconds.

PrintServer Name

In the remote printer mode, type in the "Print server name" which manages the printer. Up to 8 print servers can be set. The print server name can be up to 31 alphanumeric characters long.

Printer Name for R-Printer Mode

In the remote printer mode, type in the "Printer name" recorded in print server. Make sure that it is consistent with the printer name recorded in the print server. The printer name can be up to 31 alphanumeric characters long.

NetBEUI Settings

Configuring the NetBEUI protocol



NetBEUI Settings

Computer Name (1-15 characters)
Workgroup Name (1-15 characters)
Comment (1-48 characters)

Computer Name

Type in the computer name of the EtherNet Board. The computer name can be up to 15 alphanumeric characters long.

Workgroup Name

Type in the work group name. The work group name can be up to 15 alphanumeric characters long.

Comment

For comments. The comment can be up to 1485 alphanumeric characters long.

**EtherTalk Settings**

EtherTalk Zone Name: (1-32 characters)
EtherTalk Printer Name: (1-32 characters)
EtherTalk Printer Type: "LaserWriter"

EtherTalk Zone Name

In order to change the zone in which the printer resides, type in the new zone name. The zone name can be up to 32 alphanumeric characters long.

EtherTalk Printer Name

In order to change the printer name shown in the Selector, type in the new printer name. The printer name can be up to 32 alphanumeric characters long.

SNMP Settings



SNMP Settings

MIB-II Category

Authentic community (1-15 characters)
Trap community (1-15 characters)
Trap IP Address
SysContact (1-78 characters)
SysName (1-78 characters)
SysLocation (1-78 characters)
DefaultTTL (0-255)
Enable AuthenTrap

Printer Trap Category

Printer Trap Community Name (1-31 charac

Protocol/Address

TCP #1
TCP #2
TCP #3
TCP #4
TCP #5
IPX

Trap Type	TCP #1	TCP #2	TCP #3	TCP #4	TCP #5
Trap Enable	DISABLE	DISABLE	DISABLE	DISABLE	DISABLE
Online	DISABLE	DISABLE	DISABLE	DISABLE	DISABLE

MIB-II category

Authentic community

Set the authentic community name. The authentic community name can be up to 15 alphanumeric characters long.

Configuring the SNMP

Trap community

Type in the trap community name. The trap community name can be up to 15 alphanumeric characters long.

Trap IP Address

Type in the trap IP address. If the IP address is 0.0.0.0, a trap will not be issued.

SysContact

Set the MIB-II SysContact (manager name). The manager name can be up to 78 alphanumeric characters long.

SysName

Set the MIB-II SysName (product name). The product name can be up to 78 alphanumeric characters long.

SysLocation

Set the MIB-II SysLocation (installation location). The installation location can be up to 78 alphanumeric characters long.

Default TTL

Set the IP packet lifetime (TTL value). The value set should be between 0 and 255 seconds.

Enable AuthenTrap

Determine whether to enable or disable the authentication violation trap.
To enable set "Enable" and to disable set "Disable".

Printer Trap Category

Printer Trap Community Name

Set with up to 71 alphanumeric characters long.

Protocol Address

TCP #n

Type in the trap IP address in the case of TCP/IP. Up to 5 addresses can be set. If the value typed is "0.0.0.0", a trap will not be issued.

IPX

Type in HEX as the trap IP address in the case of IPX. Only 1 address can be set. If you type in "00000000:000000000000", a trap will not be issued.

Trap Type

Determine if each of the Trap Enable, Online, Offline, Paper Out, Paper Jam, Cover Open and Printer Error will be used or not.

Change the configuration of the printer menu.

Note The configurable items may vary from one printer to another.

Paper and Trays

Paper feed and paper size

Paper and Trays

Set the paper size, the paper thickness, etc., of each tray.

Paper Source	Paper Size	Paper Thickness
Tray 1	A4	Medium Light
Tray 2	A5	Medium Light
Tray 3	Not Supported	Light
Front Tray/Manual Feed	A4	Medium Light
Multi Feeder	Not Supported	Light

Default Tray: Tray 1

Emulation: Ghostscript

Emulation: Enable

Paper Size Checking: Off

Automatically Switch to Other Paper Source: Off

Manual Feed Source: Off

Duplex Mode: None

Stitching Mode: None

Priority Tray Mode: None

Timers and Alarms

Timers and Alarms

Timers and Alarms

Set the Auto Page Eject Time, Power Save Time, etc.

Auto Page Eject Time: 60 seconds

Manual Feed Request Time: 60 seconds

Power Save Time: 0 sec

Quiet Mode: On

Toner Low Warning Response: Continue printing

Display Clearable Warnings: Until Recovery key is pressed

Emulations

Emulations

Emulations

Printer Default Emulation: Adobe PostScript

The settings vary depending on your device.

Set the printer emulations.

Using TELNET

The EtherNet Board can be configured using the TELNET related to the workstation.



In order to change the EtherNet Board configuration, the user must login as "root".

The factory setting of the password of the "root" user is "None".

If you type in a wrong IP address the network may go down or other severe damage may occur. Set the configuration only after consulting your network manager.

In the following explanation, SunSolaris2.4 is used as an example. The method of configuring each command may differ from one workstation to another. Refer to your workstation's manual.

1. Log in as root on the workstation.



If it is not possible to log in with super-user authorization, leave the configuration to the network manager.

2. Using the APR command, set a temporary IP address on the EtherNet Board.

Example: If the IP address is "192.168.20.127" and the EtherNet Board address is "00:80:92:01:00:D2" [then enter]

```
# arp -s 192.168.20.127 00:80:92:01:00:D2 temp
```



The EtherNet address (MAC Address) is displayed in the print menu of the printer. If an IP address was already set in the EtherNet Board, there is no need to set a temporary address using the ARP command.

- 3 Use the ping command to confirm the connection with the EtherNet Board.

Example: If the IP address is "192.168.20.127", [type]

```
#ping 192.168.20.127
```



If there is no reply, then there is a problem with the IP address configured under Step 2 or with the condition of the network. Consult your network manager.

4 Log into the EtherNet Board using TELNET.

Example: Logging in the EtherNet Board when the IP address is "192.168.20.127"

```
telnet 192.168.20.127
Trying 192.168.20.127
Connected to 192.168.20.127
Escape character is '^]'.
Ethernet Board 7100e Plus Ver 1.0.0. TELNET
server.
Copyright 1999 (c) Oki Data Corporation
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login: root
'root' user needs password to login.
password:
User 'root' logged in.
```

No.	Message	Value	(level .1)
1	: Setup TCP/IP		
2	: Setup SNMP		
3	: Setup NetWare		
4	: Setup EtherTalk		
5	: Setup NetBEUI		
6	: Setup printer port		
7	: Display Status		
8	: Setup printer trap		
97	: Reset to factory set		
98	: Quit setup		
99	: Exit setup		
Please select (1-99)?			

5. Type in the number of the items changed. The details screen of each item is displayed.

6. Login from the EtherNet Board.

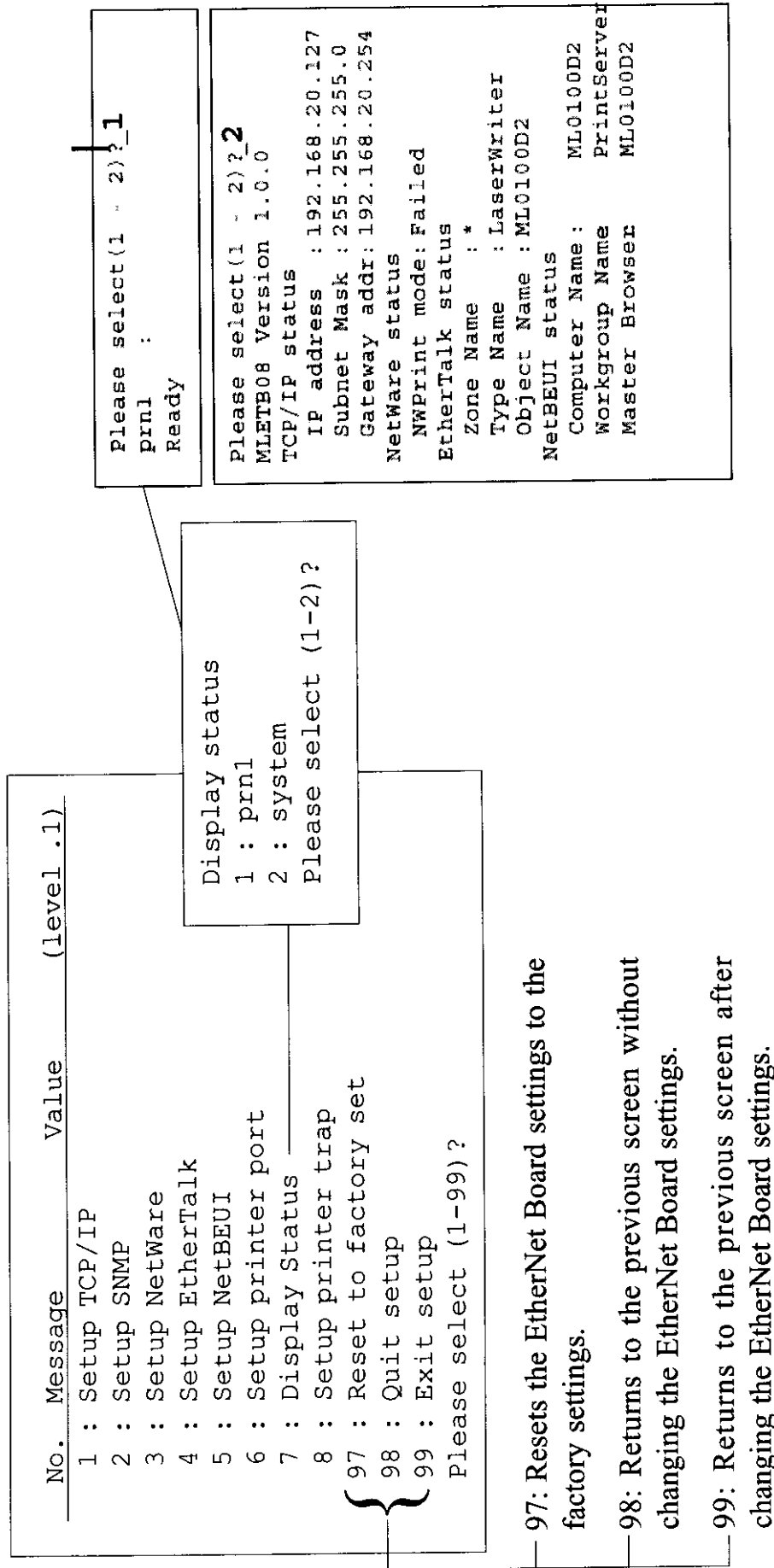
In order to enable new settings, turn the printer off and then on again.

Note *If the printer is not turned off and then on again, the EtherNet Board will continue to use the pre-transmission setting values. Make sure to turn the printer off and then on again.*

Configuration items

See “Contents of the EtherNet Board settings” (Page 131) for the details of each item.

Main screen



TCP/IP configuration screen

Please select (1-99)? 1		
No.	Message	Value
1	TCP/IP protocol	: ENABLE
2	IP address	: 192.168.20.127
3	Subnet mask	: 255.255.255.0
4	Gateway address	: 192.168.20.254
5	RARP protocol	: DISABLE
6	DHCP/BOOTP protocol	: DISABLE
7	root password	: "
99	Back to prior menu	
Please select (1 - 99)?_		

Displayed if [1] is selected in the main screen. Configure if TCP/IP is used.

NetWare configuration screen

Please select (1-99)? 3		
No.	Message	Value
1	NetWare protocol	: ENABLE
2	Packet type	: 802.2
3	NetWare mode	: PSERVER
4	Setup PSERVER mode	
5	Setup RPRINTER mode	
99	Back to prior menu	
Please select (1 - 99)?_		

Displayed if [3] is selected in the main screen. Configure if NetWare is used.

SNMP configuration screen

Please select (1-99)? 2		
No.	Message	Value
1	Authentic community	: "*****"
2	Trap community	: "public"
3	Trap address	: 0.0.0.0
4	SysContact	: "
5	SysName	: "
6	SysLocation	: "
7	DefaultTTL	: 255
8	EnableAuthenTrap	: 2
99	Back to prior menu	
Please select (1 - 99)?_		

Displayed if [2] is selected in the main screen. Configure if SNMP is used.

Note In EnableAuthenTrap, 1 is Enable and 2 is Disable.

NetWare print server mode configuration screen

Displayed if [4] is selected in the NetWare configuration screen.
Configure if the NetWare print server mode is used.

Please select (1-99)? <u>4</u>		
No.	Message	Value
1	: FSERVER name 1	: "
2	: FSERVER name 2	: "
3	: FSERVER name 3	: "
4	: FSERVER name 4	: "
5	: FSERVER name 5	: "
6	: FSERVER name 6	: "
7	: FSERVER name 7	: "
8	: FSERVER name 8	: "
9	: Machine name	: "ML0100D2"
10	: Password	: "
11	: Job polling interval: 4	
12	: Bindery mode	: ENABLE
13	: NDS tree	: "
14	: NDS context	: "
99	: Back to prior menu	
Please select (1 - 99)? _		

NetWare remote printer mode configuration screen

Displayed if [5] is selected in the NetWare configuration screen.
Configure if the NetWare remote printer mode is used.

Please select (1-99)? <u>5</u>		
No.	Message	Value
1	: PSERVER name 1	: "
2	: PSERVER name 2	: "
3	: PSERVER name 3	: "
4	: PSERVER name 4	: "
5	: PSERVER name 5	: "
6	: PSERVER name 6	: "
7	: PSERVER name 7	: "
8	: PSERVER name 8	: "
9	: Job timeout	: 10
99	: Back to prior menu	
Please select (1 - 99)? _		

EtherTalk configuration screen

Displayed if [4] is selected in the main screen. Configure if EtherTalk is used.

Please select (1-99)? 4		
No.	Message	Value

1	EtherTalk protocol	: ENABLE
2	Zone Name	: "*"
99	Back to prior menu	
Please select (1 - 99)?		

NetBEUI configuration screen

Displayed if [5] is selected in the main screen. Configure if NetBEUI is used.

Please select (1-99)? 5		
No.	Message	Value

1	NetBEUI protocol	: ENABLE
2	Computer name	: "ML0100D2"
3	Workgroup name	: "PrintServer"
4	Comment	: "EthernetBoard MLETB08"
99	Back to prior menu	
Please select (1 - 99)?		

Printer port configuration screen

Displayed if [6] is selected in the main screen. Configure the printer port.

Note Numbers 5 through 11 function only if a postscript printer is used. Do not use them for other printers.

```
Please select (1-99)? 6

No. Message      Value
-----
1: NetWare port name : "ML0100D2-prn1"
2: EtherTalk port name : "ML0100D2"
3: BOJ string      : ""
4: EOJ string      : ""
5: BOJ string(euc/sjis): ""
6: EOJ string(euc/sjis): "\x04"
7: Printer type    : PS
8: TAB size (char.) : 8
9: Page width (char.) : 78
10: Page length(line) : 66
11: lpr/ftp banner : NO
99: Back to prior menu
Please select (1 - 99)?_
```

Printer trap configuration screen

Displayed if [8] is selected in the main screen. Configure the printer trap.

```
Please select (1-99)? 8

No. Message      Value
-----
1: Prn-Trap community: "public"
2: Setup TCP#1 trap
3: Setup TCP#2 trap
4: Setup TCP#3 trap
5: Setup TCP#4 trap
6: Setup TCP#5 trap
7: Setup IPX trap
99: Back to prior menu
Please select (1 - 99)?_
```

TCP Trap configuration screen

Displayed if [2] to [6] are selected in the printer trap configuration screen. Configure the printer trap when using TCP/IP.

Please select (1-99)? 2

No. Message	Value
1 : TCP#1 Trap enable	: DISABLE
2 : On-line trap	: DISABLE
3 : Off- line trap	: DISABLE
4 : Paper Out trap	: DISABLE
5 : Paper Jam trap	: DISABLE
6 : Cover Open trap	: DISABLE
7 : Printer Error trap	: DISABLE
8 : TCP#1 Trap address	: 0.0.0.0
99:Back to prior menu	

Please select(1 - 99)?_

IPX Trap configuration screen

Displayed if [7] is selected in the printer trap configuration screen. Configure the printer trap. Configure the printer trap when using IPX.

Note

Type in the IPX Trap address and IPX Trap net using HEX.

Please select (1-99)? 7

No. Message	Value
1 : IPX Trap enable	: DISABLE
2 : On-line trap	: DISABLE
3 : Off- line trap	: DISABLE
4 : Paper Out trap	: DISABLE
5 : Paper Jam trap	: DISABLE
6 : Cover Open trap	: DISABLE
7 : Printer Error trap	: DISABLE
8 : IPX Trap address	: "000000000000"
9 : IPX Trap net	: "000000000"
99:Back to prior menu	

Please select(1 - 99)?_

Using standard setup utility (Windows)

It is possible to set up the Ethernet board from a PC running TCP/IP or IPX/SPX using the Standard Setup Utility for Windows supplied with the Ethernet board.

Operating environment

A PC with Windows 98/95 or Windows NT Server4.0/Workstation4.0, running TCP/IP or IPX/SPX (NetWare).

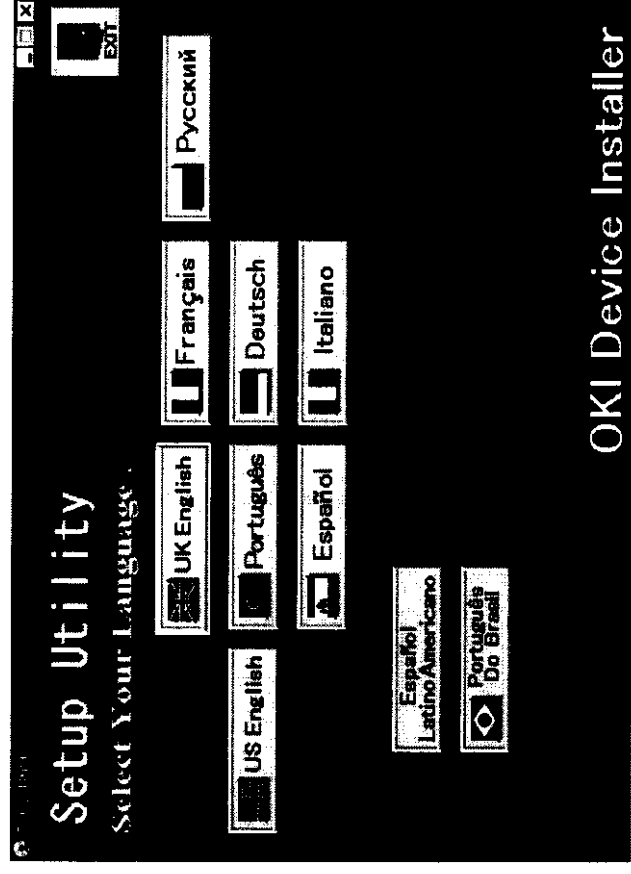
Note

- Operation on any system other than the above cannot be guaranteed.
- This utility cannot be used on a PC which cannot be connected to the network with TCP/IP or IPX/SPX.
- This utility must be used on a PC which is located on the same segment as the printer.

Setting up and using the utility

The following procedure uses Windows98 as an example. Please have the "Ethernet board CD-ROM" ready.

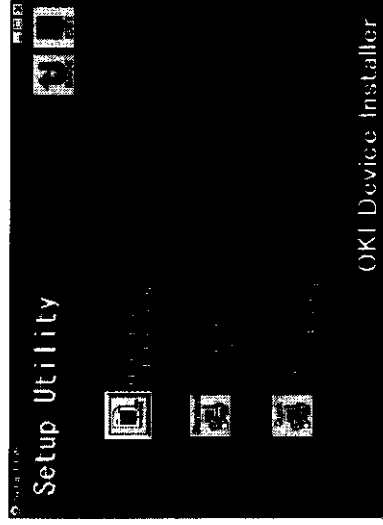
- 1 Insert the "Ethernet board CDROM" into the PC's CD-ROM drive. The Setup Utility starts automatically.



Note

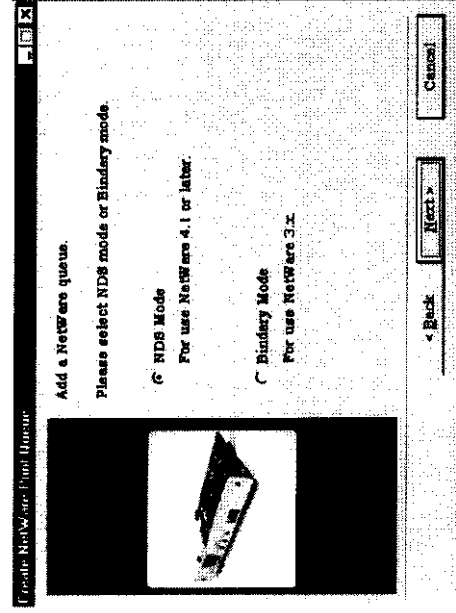
If it does not start automatically, double-click [AUTO RUN.EXE] in the [WINDOWS] folder on the CD-ROM.

- 2 Click [UK English]. The [Setup Utility] screen will be displayed.

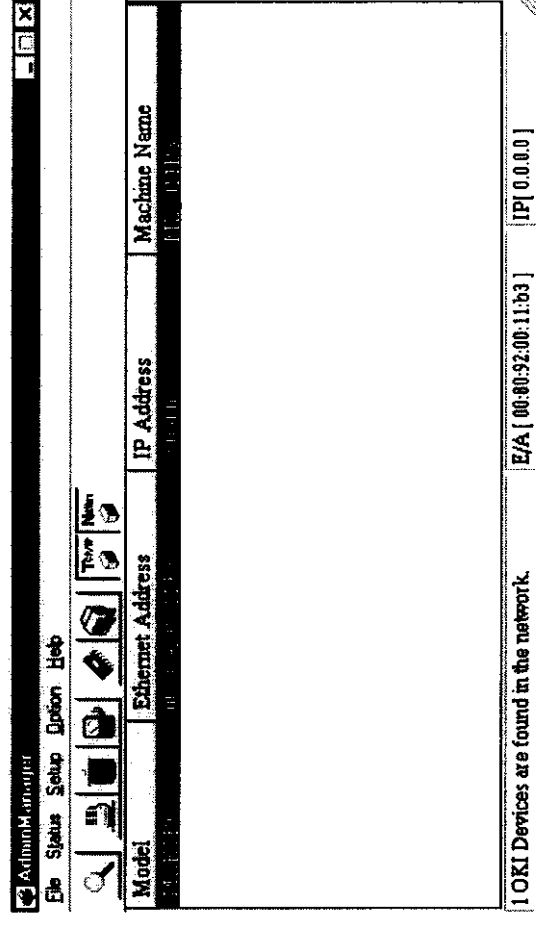


Note *Selecting any language other than [UK English] may affect the system.*

- 3 Click [OKI Device Standard Setup].
- 4 Select [Execute from CD-ROM] or [Start after Installing].

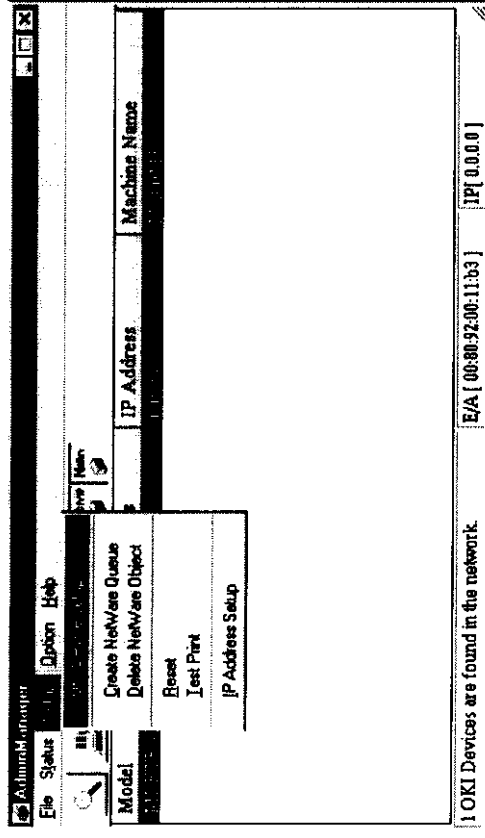


- 5 [AdminManager] will start up.



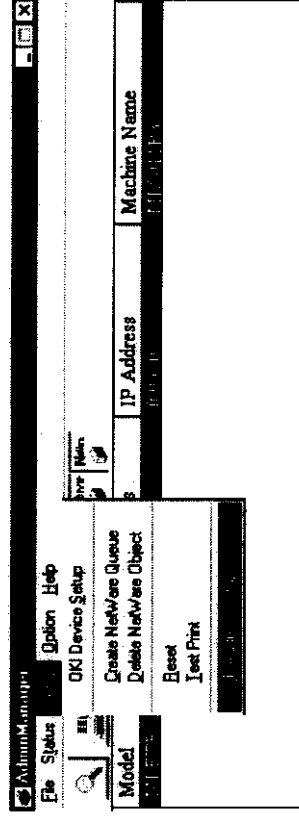
Note *If you select [Start after Installing], follow the instructions on the screen to continue setup. Select [Start] - [Program] - [OKI Setup Utility] - [AdminManager]. To delete the utility, select [Uninstall].*

- 6 Select the Ethernet board to set up from the Ethernet address list. Then select [OKI Device Setup] from the [Setup] menu.

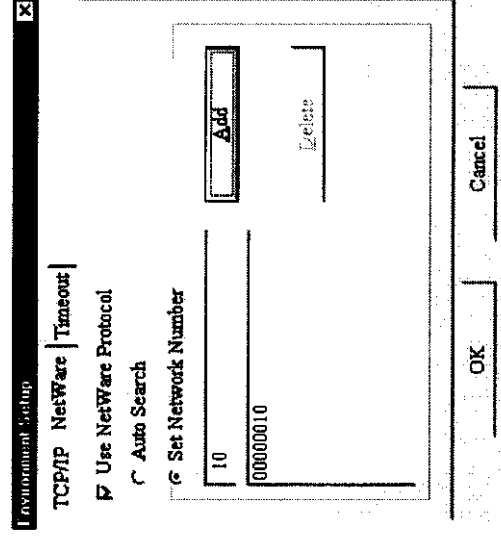


Note

- The Ethernet address is displayed in the Ethernet board self-diagnostics test print.
- If you are using TCP/IP protocol, the Ethernet board may not be listed if its IP Address has never been configured. In this case, select [IP Address Setup] from the [Settings] menu and set the IP Address. Then search for the address again.



- If you are using IPX/SPX protocol, the Ethernet board may not be listed if there are many NetWare file servers. In this case, select [Environment Setup] from the [Options] menu, then [NetWare] tab to register the IPX network address where the Ethernet board is located. Then search for the address again.



- 7 Enter the required items and click [Setup].

OKI Device Setup

TCP/IP | NetWare | EtherTalk | SNMP | pm1 |

☒ Use TCP/IP Protocol

IP Address 192 168 20 127

☐ Get IP Address by RARP

☐ Get IP Address by DHCP/BOOTP

Subnet Mask 255 255 255 0

Gateway Address 192 168 202 54

ROOT Password

Initialize Setup Cancel

- 8 If the settings are correct, click [Yes]. The new settings will be transmitted to the Ethernet board.

AdminManager

Do you wish to send the setting to OKI Device?

Note At this point, the Ethernet board is still operating with the previous settings.

- 9 Click [Yes] to make the new settings take effect. For details of each item, see "Ethernet Board Settings" at the end of this chapter.

AdminManager

Update is completed.
Do you wish to reset OKI Device?

Note If you select [No], the new settings will take effect when you turn the printer off and then back on again.

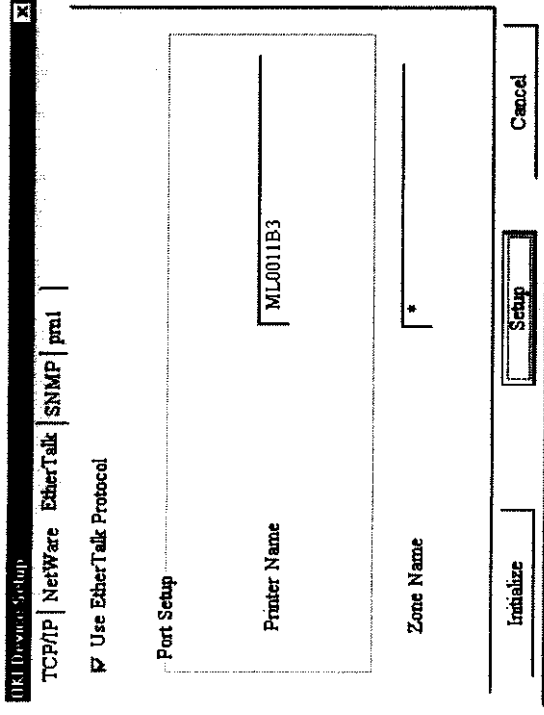
TCP/IP setup screen

- 1 Set whether TCP/IP is used.
- 2 Enter the IP Address in the format: "###.###.###.###".
- 3 Check the boxes if the address is to be acquired from RARP or DHCP/BOOTP.
- 4 Enter the subnet mask in the format: "###.###.###.###".
- 5 Enter the gateway address in the format: "###.###.###.###". If you do not use a router or gateway, enter "0.0.0.0".
- 6 Enter the ROOT Password.

NetWare setup screen

Enter the printer name, frame type, operating mode, NetWare port name, etc.

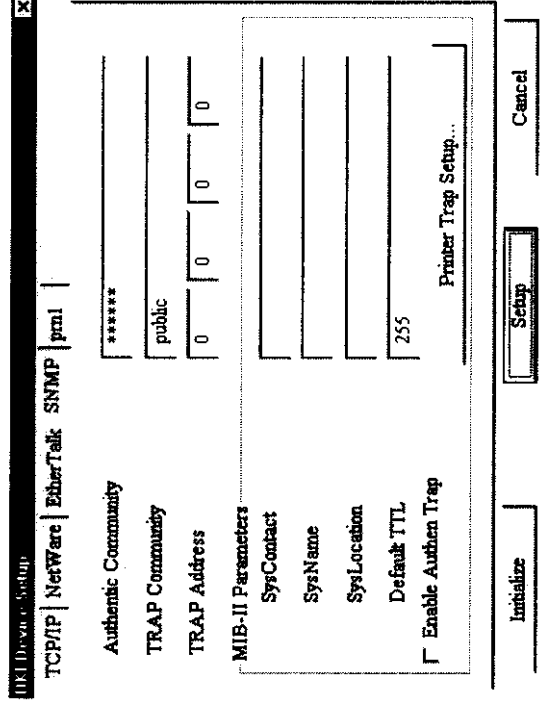
EtherTalk setup screen



The screenshot shows the 'EtherTalk Setup' window. At the top, there are tabs for 'TCP/IP', 'NetWare', 'EtherTalk', 'SNMP', and 'prn1'. The 'EtherTalk' tab is selected. Below the tabs, there is a checkbox labeled 'Use EtherTalk Protocol' which is checked. The main area is titled 'Port Setup' and contains three input fields: 'Printer Name' with the value 'ML0011B3', and 'Zone Name' with the value '*'. At the bottom, there are 'Initialize' and 'Setup' buttons, and a 'Cancel' button on the right.

- 1 Set whether EtherTalk is used.
- 2 Enter the new printer name if you change the printer name used by Chooser.
- 3 Enter the new zone name if you want to move your printer to a different zone.

SNMP setup screen



The screenshot shows the 'SNMP Setup' window. At the top, there are tabs for 'TCP/IP', 'NetWare', 'EtherTalk', 'SNMP', and 'prn1'. The 'SNMP' tab is selected. Below the tabs, there are several input fields: 'Authentic Community' with the value '*****', 'TRAP Community' with the value 'public', and 'TRAP Address' with the value '0'. Below these, there is a section titled 'MIB-II Parameters' with fields for 'SysContact', 'SysName', 'SysLocation', and 'Default TTL' with the value '255'. There is also a checkbox labeled 'Enable Authen Trap' and a button labeled 'Printer Trap Setup...'. At the bottom, there are 'Initialize' and 'Setup' buttons, and a 'Cancel' button on the right.

- 1 Enter the authentic community name and trap community name.
- 2 Enter the IP address for trap notice as "####.###.###.###". If you do not use traps, enter "0.0.0.0".
- 3 Enter SysContact, SysName and SysLocation.
- 4 This is the IP packet TTL value. This should not normally be changed.
- 5 Check box if a trap should be issued when an authorization error occurs.

Printer trap setup screen

- 1 Set whether Printer Trap is used.
- 2 Choose trap type from Local, UDP or IPX.
- 3 Enter the trap notice address for each type. If the entered value is "0.0.0.0" or "00000000 : 000000000000", traps will not be issued.

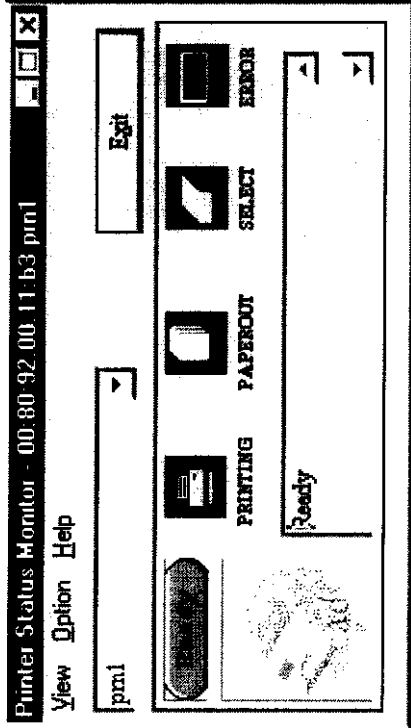
Printer port setup screen

- 1 The character string transmitted to the printer before and after sending print data to the direct output port (lp).
- 2 The character string transmitted to the printer before and after sending print data to the output port via a Kanji filter (sjis or euc).
- 3 Fixed as PS
- 4 Enter the tab size, page width and page length of the output port via a Kanji filter (sjis or euc).

Note [Kanji Conversion Output Settings] are available only for postscript printers.

- 5 Set whether a banner page is printed. This item is valid only for TCP/IP protocol.

Printer status

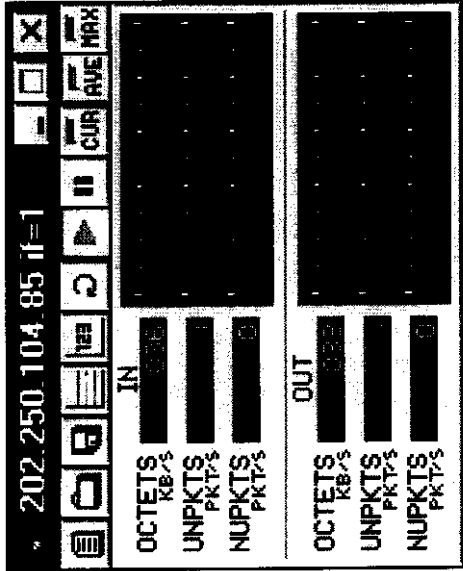


Select [Printer Status] from the [Status] menu. The current printer status will be displayed.

System status



Select [System Status] from the [Status] menu. The current Ethernet board settings will be displayed. This information can also be stored as a log file.



Select [NetMeter] from the [Status] menu. The real-time network load status will be displayed. For details such as the setting method, see “Help” on each NetMeter screen. When starting it from the CD-ROM, “Help” screens will be in English.

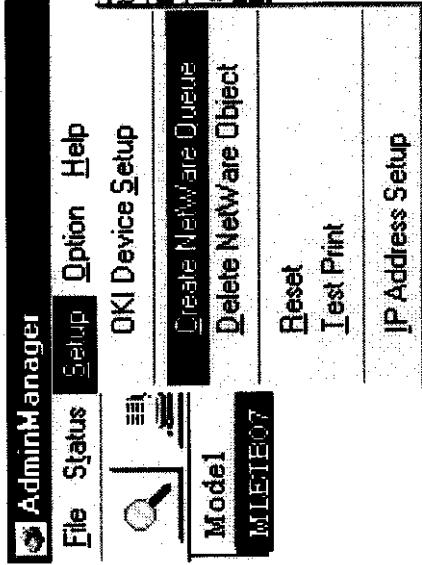
Note *NetMeter is free software, and its operation cannot be guaranteed.*

Creating NetWare queues

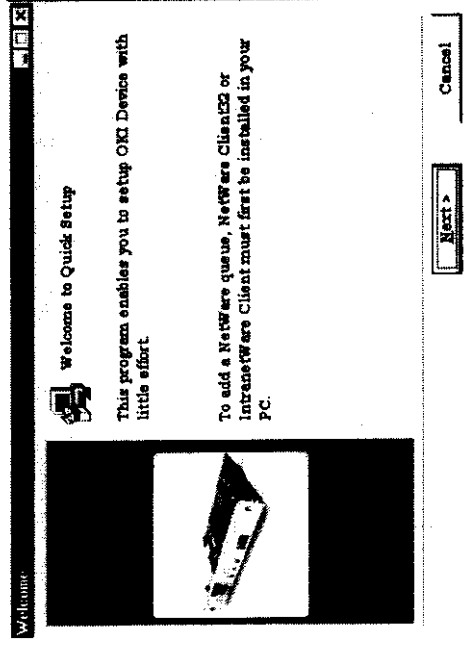
NetWare print queues can be created on a NetWare Server.

Note

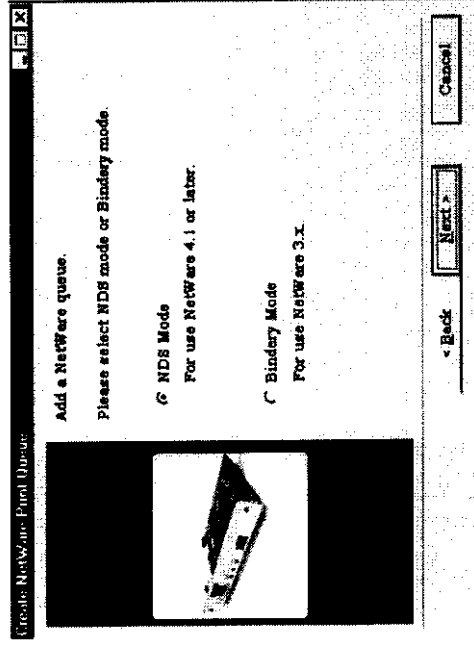
- *NetWare Client32 or IntranetWare Client should be on the same PC as the Standard Setup Utility is used. Once installed you will be able to log in to the NetWare NDS network and bindery network.*
 - *You should log in to each server as a user who has the authority to create objects.*
 - *In NetWare 4.1 remote printer mode, queues must be created in NDS mode. It is not possible in bindery mode.*
- 1 Select an Ethernet board, then go to [Create NetWare Queue] in the [Settings] menu.



- 2 Click [Next].

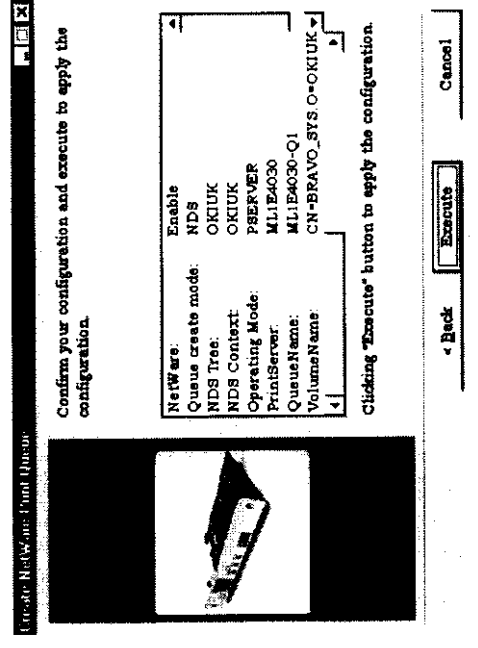


- 3 Select [NDS Mode] or [Bindery Mode] depending on the network environment.



- 4 Follow the screen instructions to create a NetWare queue.

- 5 Check the setting details. If they are correct, click [Run]. The settings will be transmitted to the NetWare Server.



- 6 Click [End].
- 7 Select [OKI Device Settings] to continue the Ethernet board setup.

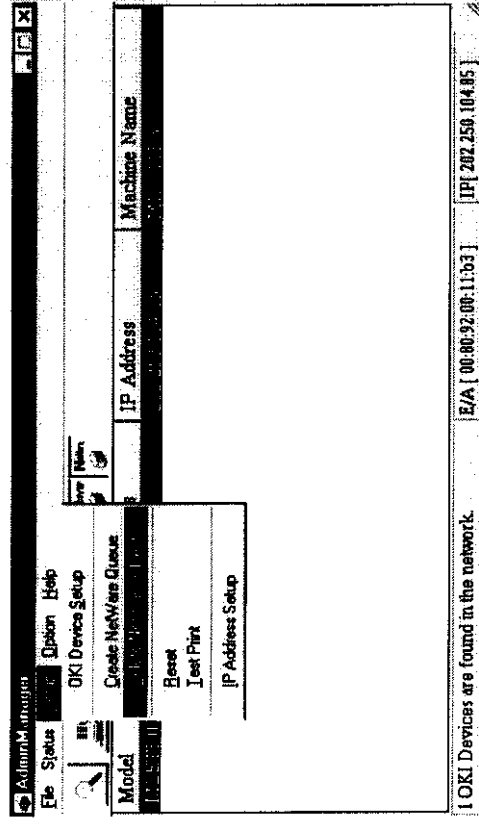
Deleting NetWare objects

Print servers, print queues and printers created on the NetWare server can be deleted.

Note

- *NetWare Client32 or Intranet Ware Client should be added to a PC where the Standard Setup Utility is used, which allows you to log in to the NetWare NDS network and bindery network.*
- *You should log in to each server as a user who has the authority to delete objects.*

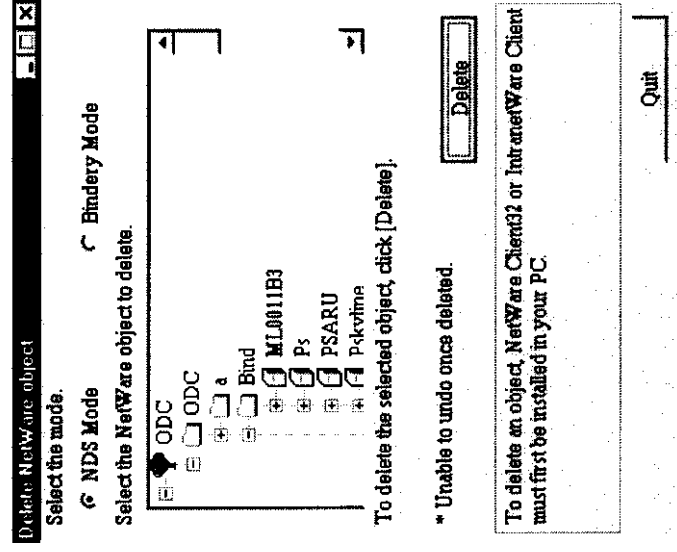
- 1 Select an Ethernet board and select [Delete NetWare Object] from the [Setup] menu.



- 2 Select [NDS Mode] or [Bindery Mode], then the object to be deleted. If the object may be deleted, click [Delete].

Note

Once an object is deleted, you cannot restore it. Take care when selecting the object.



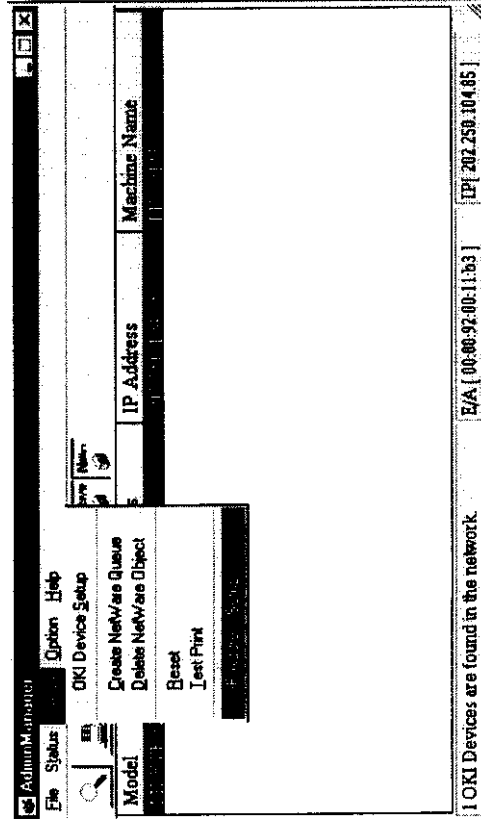
- 3 Click [End].

Configuring IP addresses

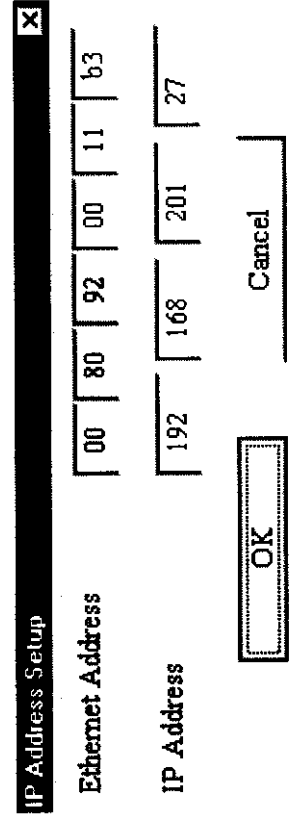
If a PC running the Standard Setup Utility uses only TCP/IP protocol, the Ethernet board may not be listed on the main screen if its IP address has never been configured. Use the following procedure to set the IP address.

Note *Please make a note of the Ethernet Address before proceeding with this setup. The Ethernet Address will be displayed on the Ethernet Board Self-diagnostic Test.*

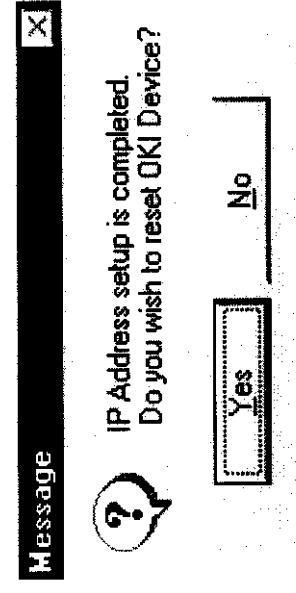
- 1 Select [Set IP Address] from the [Setup] menu.



- 2 Enter the Ethernet board's "Ethernet Address" and "IP Address", then click [OK]. The settings will be transmitted to the Ethernet board.



- 3 To enable the IP Address, click [Yes].



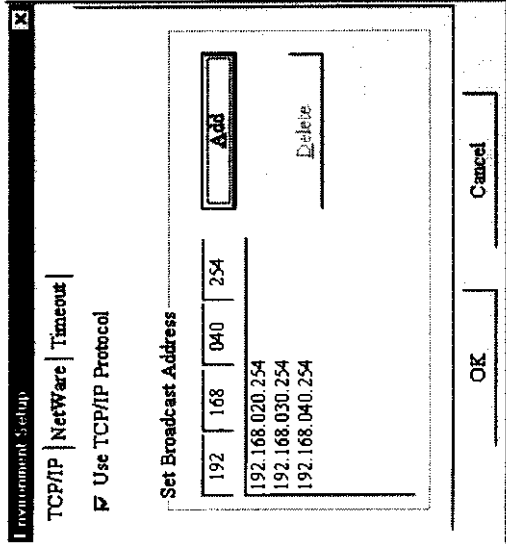
Note *If you select [No], the new setting will take effect when you turn the printer off and then back on again.*

Environment setup

Select [Environment Setup] from the [Options] menu.

TCP/IP

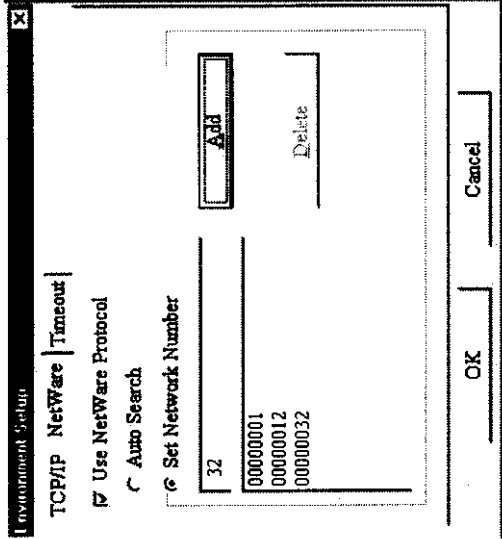
Set the broadcast address for searching the Ethernet board with TCP/IP.



Note If you uncheck [Use TCP/IP Protocol], the search will not be conducted with TCP/IP.

NetWare

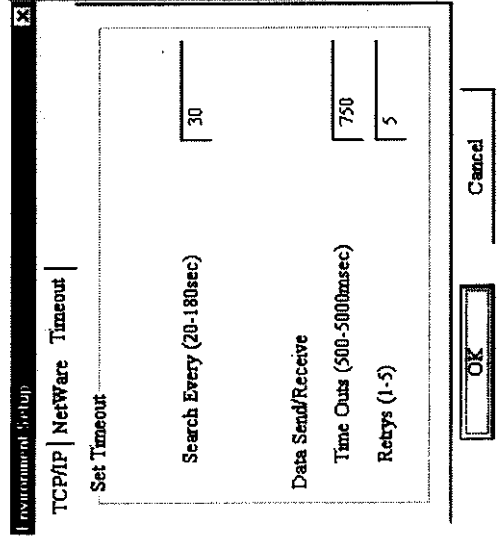
Set the NetWare network number for searching the Ethernet Board with NetWare. If there are many NetWare file servers, specify the number of the network where the Ethernet board is located.



Note If you uncheck [Use NetWare Protocol], the search will not be conducted with NetWare. If [Auto Search for Network] is selected, only the networks which are available will be searched.

Timeout

Polling Time - Set the time for polling the response from the Ethernet board (in seconds).



Timeout - Set the timeout for data transmission between AdminManager and the Ethernet board (in seconds).

Retry Time - Set the number of times to retry data transmission between Admin Manager and the Ethernet board.

Using quick setup utility (Windows)

It is possible to set up the Ethernet board from a PC running TCP/IP or IPX/SPX using the Quick Setup Utility for Windows supplied with the Ethernet board.

Operating environment

A PC with Windows98/95 or Windows NT Server 4.0/Workstation4.0, running TCP/IP or IPX/SPX (NetWare).

Note

- Operation on any system other than the above cannot be guaranteed.
- This utility cannot be used on a PC which cannot be connected to the network with TCP/IP or IPX/SPX.
- This utility must be used on a PC which is located on the same segment as the printer.

Setting up and using the utility

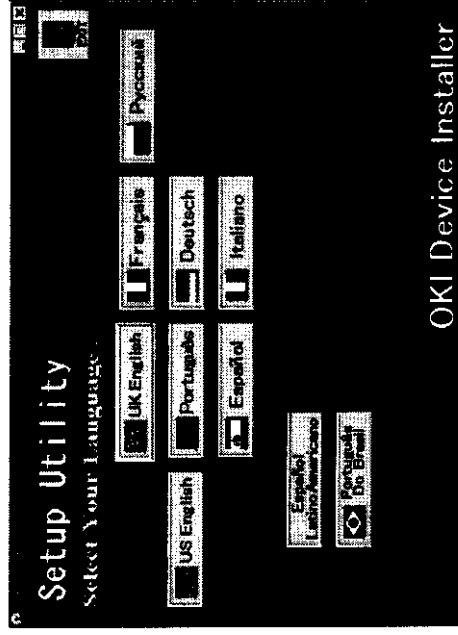
The following procedure uses Windows 98 as an example. Please have the “Ethernet board CD-ROM” ready.

- 1 Insert the “Ethernet board CDROM” into the PC’s CD-ROM drive. The Setup Utility starts automatically.

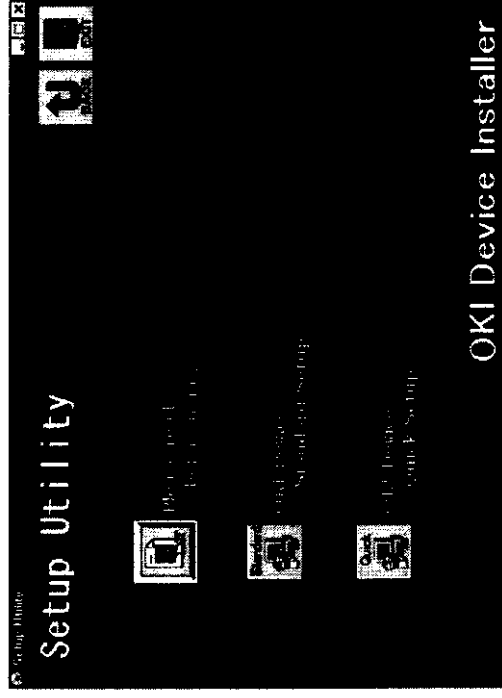
[Note] *If it does not start automatically, double-click [AUTO RUN.EXE] in the [WINDOWS] folder on the CD-ROM.*

- 2 Click [UK English].

[Note] *Selecting any language other than [UK English] may affect the system.*

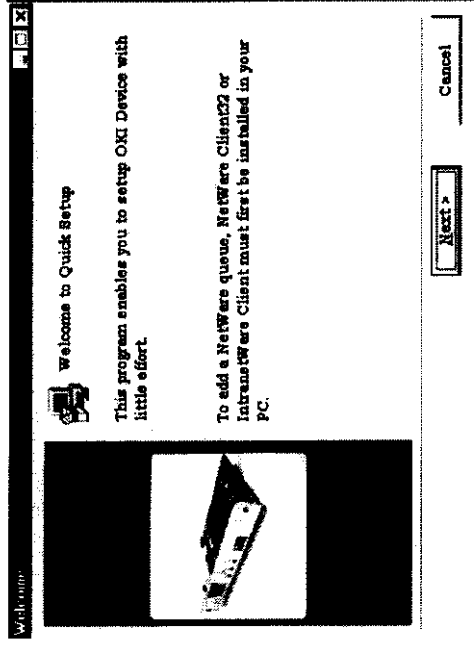


- 3 The [Setup Utility] screen will be displayed.

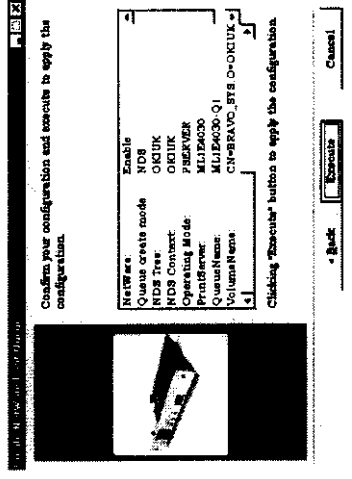


- 4 Click [OKI Device Quick Setup].

- 5 Follow the instructions on the screen to configure the Ethernet board.

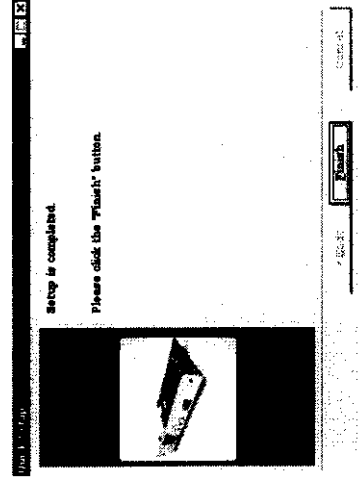


- 6 Check the setting details. If the settings are correct, click [Run]. The new settings will be transmitted to the Ethernet board.



Note At this point, the Ethernet board is still operating with the previous settings.

- 7 Click [End] to make the new settings take effect.



Note You may need to switch the printer, depending on the model, off and then back on again.

Note For creating NetWare queues and so on, it is necessary to add NetWare Client32 or IntranetWare Client to the PC.

Using setup utility (Macintosh)

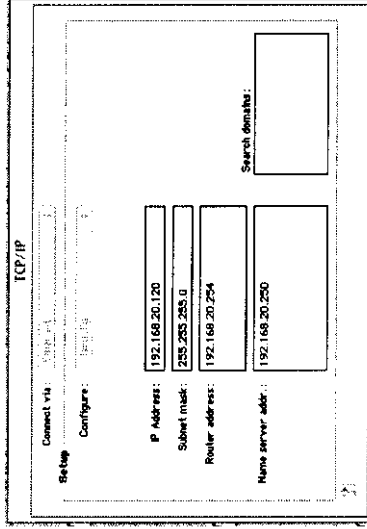
It is possible to set up the Ethernet board from a Macintosh running TCP/IP, using the Setup Utility for Macintosh that comes with the Ethernet board.

Operating environment

A Macintosh using System 7.1.2 or later, running TCP/IP.



- This Setup Utility does not operate on a Macintosh with an operating system earlier than System 7.1.2.
- TCP/IP is required also for Macintosh. Select [TCP/IP] in Control Panels to set each address. Instead of [TCP/IP], there may be [MacTCP] in Control Panels, depending on the OS version. For details, see your Macintosh manual.



Setting up and using the utility

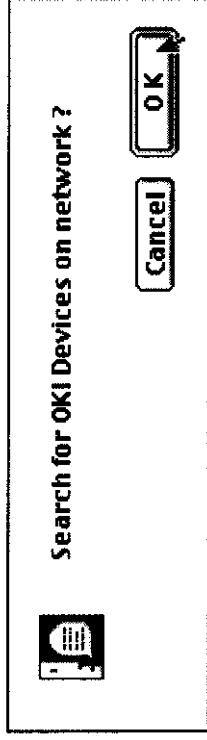
Please have the “Ethernet board CD-ROM” ready. The following procedure uses MacOS8.5 as an example.

- 1 Insert the “Ethernet board CDRom” into the Macintosh. Double-click [Setup Utility] in [Mac] - [ENGLISH] folder.

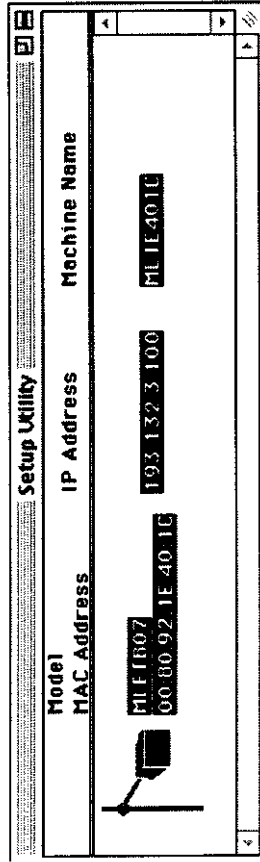


It may also be copied onto the Macintosh hard disk and double-clicking to start it up.

- 2 Click [OK]. After searching for Ethernet boards, a result list will be displayed.

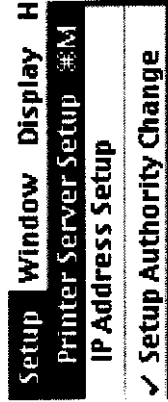


- 3 Select the Ethernet board you wish to set up from the address list.

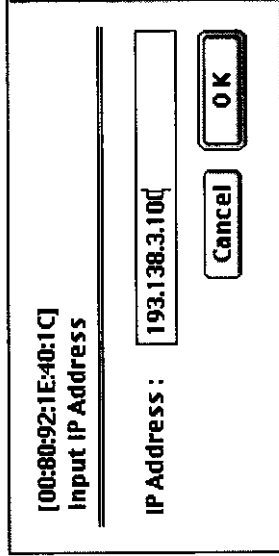
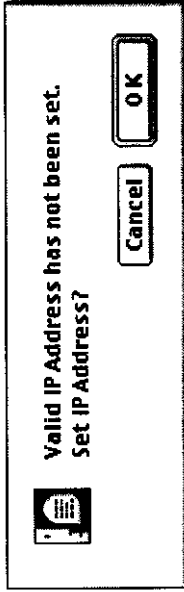


Note The Ethernet address is displayed in the Ethernet board self-diagnostics test print.

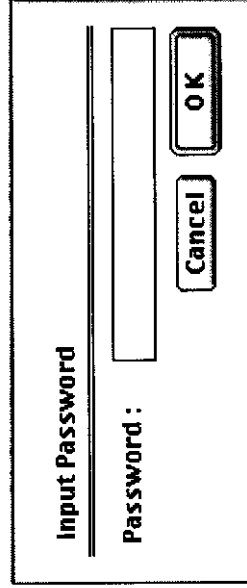
- 4 Select [Set Print Server] from the [Setup] menu.



Note If you have never configure the IP address on the Ethernet board, the screen below will be displayed. Give a temporary address to set a print server. This address will be cancelled when the printer is turned off.



- 5 Enter the [ROOT] user password and click [OK]. The default value should be "None".



- 6 Enter the required items, and click [End Setup].

MLETB07(193.132.3.100 ML1E401C)

TCP/IP Setup

☒ Use TCP/IP Protocol

IP Address: 193.132.3.100

☐ Get Address by RARP
☐ Get Address by BOOTP

Subnet Mask: 255.255.255.0

Gateway: 0.0.0.0

ROOT Password:

Buttons: Default, Cancel Changes, Cancel Setup, End Setup

Options: SHMP Setup, NetWare Setup, EtherTalk Setup

- 7 If the settings are correct, click [OK]. The new settings will be transmitted to the Ethernet board.

Reflect changes upon device and end operation?

Buttons: Cancel, OK, End Setup

Note At this point, the Ethernet board still operates with the previous settings.

- 8 To enable the new settings, click [OK] and turn power cycle the printer. For details of each setting, see "Ethernet Board Settings".

Setting information is loaded.
To renew the setting please restart the printer.

OK

TCP/IP setup screen

MLETB07(193.132.3.100 MLE401C)

TCP/IP Setup

☒ Use TCP/IP Protocol

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway: 0.0.0.0

ROOT Password:

☐ Get Address by RARP
☐ Get Address by BOOTP

Default Cancel Changes Cancel Setup End Setup

- 1 Set whether TCP/IP is used.
- 2 Enter the IP address in the format: "###.###.###.###".
- 3 Check here if IP address is to be acquired from RARP or DHCP/BOOTP.
- 4 Enter the subnet mask in the format: "###.###.###.###".
- 5 Enter the gateway address in the format: "###.###.###.###". If you do not use a router or gateway, enter "0.0.0.0".
- 6 Enter the ROOT password.

SNMP setup screen

MLETB07(193.132.3.100 MLE401C)

SNMP Setup

Community name: public

TRAP Community name: public

TRAP Address: 0.0.0.0

Table of MIB-II setting

SysContact:

SysName:

SysLocation:

Default TTL: 255

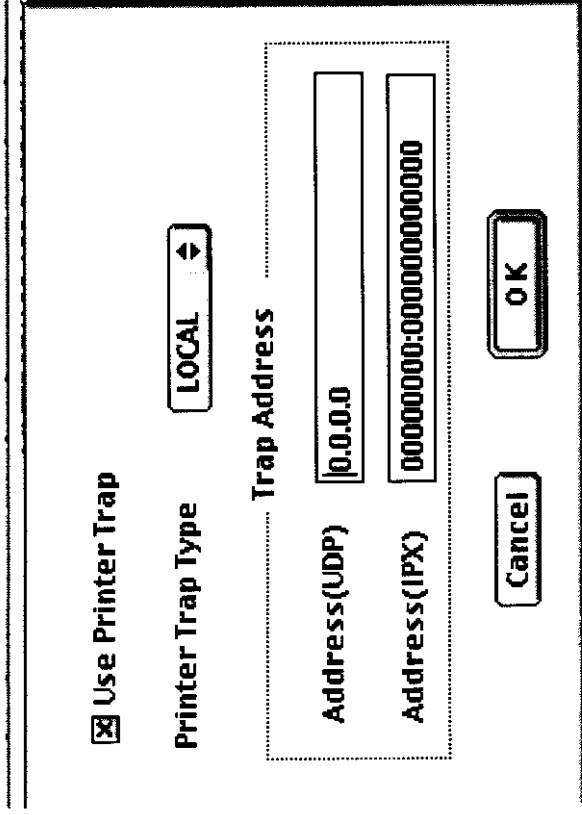
☐ Enable AuthenTrap

Printer Trap Setup...

Default Cancel Changes Cancel Setup End Setup

- 1 Enter the authentic community name and trap community name.
- 2 Enter IP address for trap notice as "###.###.###.###". If you do not use traps, enter "0.0.0.0".
- 3 Enter SysContact, SysName and SysLocation.
- 4 This is the IP packet TTL value. This should not normally be changed.
- 5 Check this option if a trap is to be issued in cases of authorisation error.

Printer trap setup screen



☒ Use Printer Trap

Printer Trap Type: LOCAL

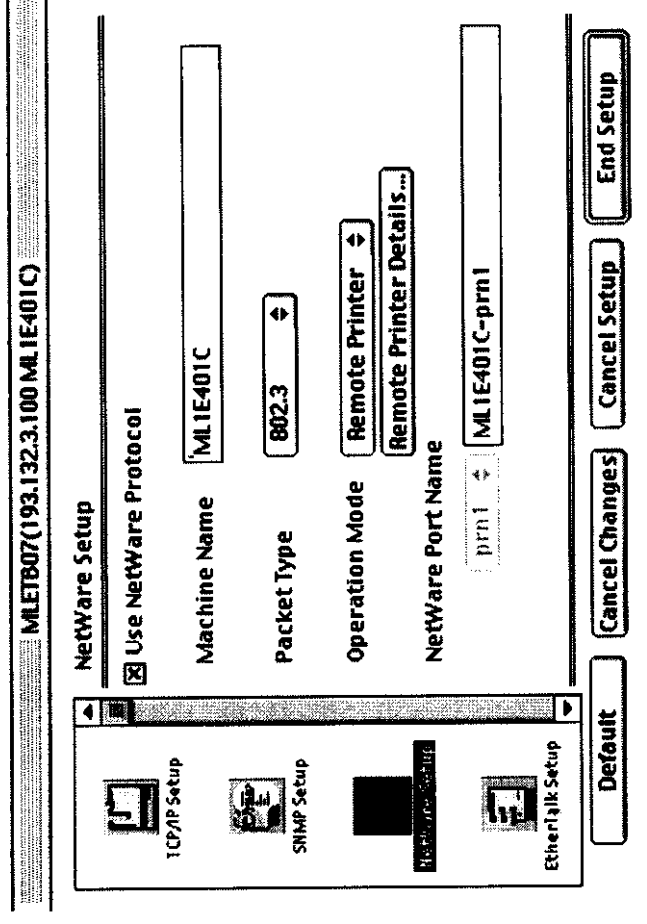
Trap Address

Address(UDP): 0.0.0.0

Address(IPX): 00000000:0000000000000000

Cancel OK

NetWare setup screen



MLETB07(193.132.3.100 ML1E401C)

NetWare Setup

☒ Use NetWare Protocol

Machine Name: ML1E401C

Packet Type: 802.3

Operation Mode: Remote Printer

Remote Printer Details...

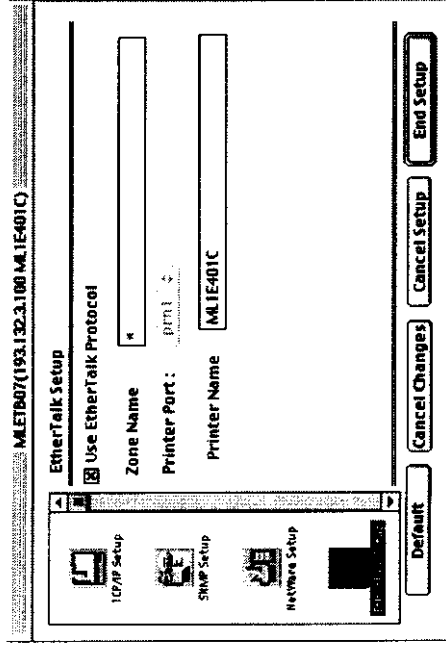
NetWare Port Name: print ML1E401C-prn1

Default Cancel Changes Cancel Setup End Setup

- 1 Set whether printer trap notice is used.
- 2 Choose the trap type from LOCAL, UDP and IPX.
- 3 Enter the rap notice address for each type. If the entered value is "0.0.0.0" or "00000000 : 0000000000000000", traps will not be issued.

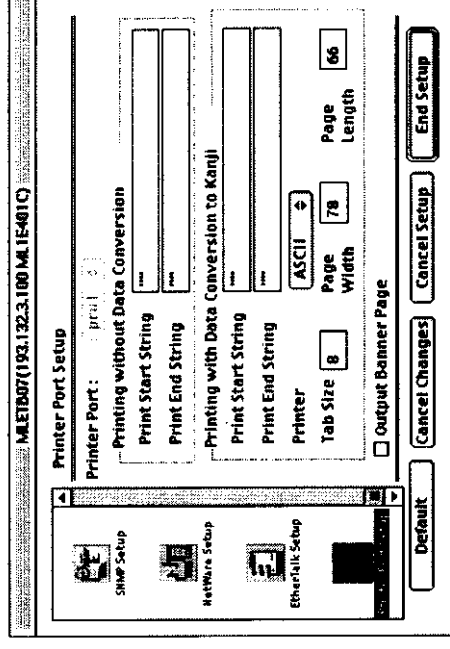
Enter the printer name, packet format, operating mode, NetWare port name and so on.

EtherTalk setup screen



- 1 Set whether EtherTalk is used.
- 2 If you want to move your printer to a different zone, enter the new zone name.
- 3 Enter a new printer name to change the printer name used by Chooser.

Printer port setup screen



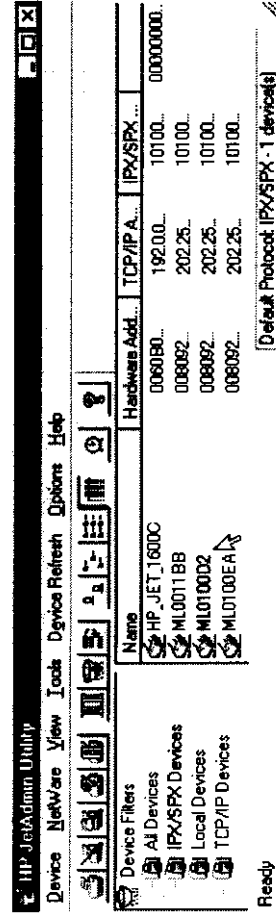
- 1 This is the character string transmitted to the printer before and after sending print data to the direct the output port (lp).
- 2 This is the character string transmitted to the printer before and after sending print data to the output port via a Kanji filter (sjis or euc).
- 3 Fixed as PS
- 4 Enter the tab size, page width and page length for the output port via a Kanji filter (sjis or euc).

Note *[Kanji Conversion Output Settings] are available only for postscript printers.*

- 5 Set whether a banner page is printed. This item is valid only for TCP/IP protocol.

Using JetAdmin

Some JetAdmin Utility functions are supported.



Functions supported by JetAdmin

- On the main screen, the printer name will be listed under [Name], the Ethernet address under [Hardware Address], and the IP Address under [TCP/IP Address].
- In an environment from which the NetWare server can be logged in to, select [New] from the [Device] menu to acquire the Ethernet board as a new device.
- The following items can be configured in [Edit] in the [Device] menu.
Select [Basic Information] to set [Print Server Name].
Go to [NetWare] - [Operating Mode] to select [Queue Server Mode].
Go to [NetWare] - [Remote Printer Mode] to select a print server (only if its name has 30 characters or less). Go to [NetWare] - [Queue] to register bindery mode queues (this

can be done only if the print server name is 30 characters or less). Go to [TCP/IP] to select [Auto TCP/IP Setting from DHCP Server] or [Manual TCP/IP Setting]. Go to [Option] - [AppleTalk] to alter [Apple Talk Name].

- The following items can be configured in [Properties] in the [Device] menu. Select the [Device] Tab to view printer status. In the [JetDirect] tab, go to [Reset JetDirect Card] to [Reinitialise] or [Reset Card to Default Settings]; [Frame Type] to select [Ethernet802.3], [Ethernet II], [Ethernet802.2] or [EthernetSNMP]; [Protocol Stack] to select [Windows/NT, HPUX, SunOS] or [EtherTalk]; [Interval] to set [Queue Polling Rate].

Using SNMP

The Ethernet board is equipped with an SNMP agent which runs on UDP. The printer can be controlled using the SNMP Manager. The Ethernet board supports SNMPv1, MIB-II and OKI Data Private MIB. For OKI Data Private MIB, please use the file appropriate to your printer, referring to "readme.txt" in the MIB folder on the "Ethernet board CD-ROM".

The default values for SNMP settings are as follows:

Items	Value
Authentic Community Name	Public
Trap Community Name	Public
Trap IP Address	0.0.0.0
SysContact	None
SysName	None
SysLocation	None
TTL Value (IP packet survival time)	255
Authentic Error Trap	2 (disabled)

The default values for printer trap settings are as follows.

Items	Value
Printer Trap Notice	DISABLE
Trap Type	LOCAL
Address (UDP)	0.0.0.0
Address (IPX)	00000000:000000000000

Ethernet board settings

The Ethernet board settings items and their values are described below.

Note: *Some functions may not be used, depending on your printer type.*

The settings in *Italics* indicates Ethernet board default settings

Items	Function	Setup Value
TCP/IP		
TCP/IP protocol	Set TCP/IP Protocol for Ethernet Board.	ENABLE : To use the function. DISABLE: Not to use the function.
IP address	Set IP Address for Ethernet Board. Enter the value in a decimal system as ***** For RARP or DHCP/BOOTP, IP Address setting is not required because it will be set dynamically.	Default value 0.0.0.0.
Subnet mask	Set Subnet Mask for Ethernet Board. Enter the value in a decimal system as *****	Default value 0.0.0.0.
Gateway address	Set Gateway Address for Ethernet Board. Enter the value in a decimal system as *****	Default value 0.0.0.0.
RARP protocol	Set whether RARP requirement (i.e. dynamic IP Address acquisition) is conducted at Printer start-up.	ENABLE : To use the function. DISABLE: Not to use the function.
DHCP/BOOTP protocol	Set whether DHCP or BOOTP requirement (i.e. dynamic IP Address acquisition) is conducted at Printer start-up.	ENABLE : To use the function. DISABLE: Not to use the function.
ROOT password	Set the root user password needed to change Ethernet Board settings using TELNET or other utilities. Enter the password in 7 alphabets or numbers	Default value None.

Ethernet Board 7100e Plus

SNMP		
Authentic community	Enter the Authentic Community Name, which is in 15 or shorter alphabets or numbers. The set value will be displayed as *****	Default value public
Trap community	Enter the Trap Community Name, which is in 15 or shorter alphabets or numbers.	Default value public
Trap address	Enter the Trap Notice Address. IP Address 0.0.0.0, is invalid.	Default value 0.0.0.0.
SysContact	Set MIB-II SysContact in 79 or shorter alphabets or numbers.	Default value None
SysName	Set MIB-II SysName in 79 or shorter alphabets or numbers.	Default value None

Items	Function	Setup Value
SysLocation	Set MIB-II SysLocation in 79 or shorter alphabets or numbers.	Default value None
DefaultTTL	Set IP Packet Existing Value (TTL Value). Normally, use the default value. The value may vary from 0 to 255 sec.	Default value 255 sec.
EnableAuthenTrap	Set whether Authentic Trap Error is permitted.	1 : Permitted 2 : Not permitted

NetWare		
NetWare protocol	Set whether NetWare protocol (IPX/SPX protocol) is used.	ENABLE: To use the function DISABLE: Not to use the function
Packet type	Designate the packet priority frame type used for NetWare. Make it identical with the frame type of the existing network. When they are not the same, the packet will be exchanged automatically, however, it may take time depending on the network type. Therefore, assign the same frame type with the server.	ETHER-II ETHERNET-II 802.2 : IEEE802.2 802.3 : IEEE802.3 SNAP : SNAP
NetWare mode	Choose Ethernet Board operating mode for NetWare from Print Serer Mode or Remote Printer Mode. This setting should coincide with that on NetWare Server.	PRINTER : Remote Printer Mode PSERVER : Print Server Mode

Print Server		
FSERVER name1-8	Enter File Server Name which administer Printer in Print Server Mode. 8 file servers may be designated at max. The value should be in 31 or shorter alphabets or numbers.	Default value All None
Machine name	It is the "Print Server Name" which has been set at File Server in Print Server Mode. Make sure this name is identical with the "Print Server Name" set at File Server. In Remote Printer Mode, it is not used for NetWare. In both modes, this name will be displayed at the utility as the machine name. The value should be in 31 or shorter alphabets or numbers.	Default value "ML" + "last 6 digits of MAC Address" Default value Null (No password)
Password	This is a password to log in File Server in Print Server mode. Make sure this password is identical to that set at File Server. The value should be set in 31 or shorter alphabets or numbers.	Default value 4 sec.
Job polling interval	Set the interval to poll the job status. The smaller the value is, the more load on the network. The larger the value is, the worse the printing response. Normally, please use the default value. The value may vary from 2 to 255 seconds.	

Items	Function	Setup Value
Bindery mode	In Print Server mode, when controlling only with NW4.1 NDS Mode, set Bindery Mode as [Disable]. When connecting via NW4.1 Bindery Service and NW3.1, always set Bindery Mode as [ENABLE]	ENABLE : To use the function DISABLE: Not to use the function
NDS tree	In Print Server Mode, enter NDS Tree Name. The File Server, where NetWare Print Server is attached, belongs to this NDS tree.	Default value None
NDS context	In Print Server Mode, enter the Context Name, with which the Print Server was created.	Default value None
Remote Printer		
PSERVER name1-8	Enter Print Server Name to be attached in Print Server Mode. 8 print servers may be designated at max. The value should be set in 31 or shorter alphabets or numbers.	Default value All None
JOB timeout	This is the time from receiving the last print packet to relieving the Ethernet Board port at the end of the print job, in the Remote Printer Mode. When the set value is too short, the packet delay may make the printing stop on the way. Normally, please use the printer with the default value. The value may vary from 4 to 255 seconds.	Default value 10 sec.
EtherTalk		
EtherTalk protocol	Set whether EtherTalk protocol is used.	ENABLE : To use the function DISABLE: Not to use the function
Zone name	Enter EtherTalk zone name where Ethernet Board belongs on EtherTalk protocol.	Default value " " (None)

Items	Function	Setup Value
Printer Port		
NetWare port name	For NetWare4.1, it is "Printer Name" of "Print Server Information" in PCONSOLE. For NetWare3.1, it is "Printer Configuration" name found in "Print Server Configuration" of "Print Server Information" in PCONSOLE. This name is used only for NetWare. The value should be in 31 or shorter alphabets or numbers.	Default value "ML" + "last 6 digits of MAC Address" + ".prn"
EtherTalk port name	It is Printer Name used only for EtherTalk protocol. The value should be in 31 or shorter alphabets or numbers.	Default value "ML" + "last 6 digits of MAC Address"
BOJ string	Designate the character string transmitted to Printer before outputting directly to the output port (lp port). Set it when submitting such as control code before printing is required. The value should be in 31 or shorter alphabets or numbers. The special codes below may be assigned. * b ASCII Back-space, code 0x08 * t ASCII Tab, code 0x09 * n ASCII Return, code 0x0a * v ASCII Vertical tab, code 0x0b * f ASCII Page down, code 0x0c * r ASCII Esc code 0x0d * xnn HEX code expressed as nn * " " code 0x22 * # * code 0x5c	Default value " " (None)
EOJ string	Designate the character string transmitted to Printer after outputting directly to the output port (lp port). Set it when submitting such as control code after printing is required. The value should be in 31 or shorter alphabets or numbers. The special codes are the same for BOJ string.	Default value " " (None)
BOJ string(KANJI)	Designate the character string transmitted to Printer before outputting to the output port via KANJI filter(euc.sjis port). Set it when submitting such as control code before printing is required. The value should be in 31 or shorter alphabets or numbers. The special codes are the same for BOJ string.	Default value " " (None)
EOJ string(KANJI)	Designate the character string transmitted to Printer after outputting to the output port via KANJI filter(euc.sjis port). Set it when submitting such as control code after printing is required. The value should be in 31 or shorter alphabets or numbers. The special codes are the same for BOJ string.	Default value *x04

Items	Function	Setup Value
Printer type	Set Printer type for KANJI filter.	Fixed as PS(PostScript).
TAB size	Designate the character width to convert a tab code (0x09) into a half space (0x20), when outputting data via KANJI filter. If the width is set to 0, the tab transformation will not be conducted. The value may vary from 0 to 16.	Default value 8
Page width (letters in a line)	Set the page width when outputting via KANJI filter. The value may vary from 0 to 255.	Default value 78
Page length (lines in a page)	Set the page length when outputting via KANJI filter. The value may vary from 0 to 255.	Default value 66
Banner output	Select whether a banner page is output when printing with LPR or FTP. This setting is valid only for TCP/IP protocol.	YES : With Banner page NO : Without Banner page
Printer Trap		
Trap enable	Set whether Printer Trap is used.	ENABLE : To use this function. DISABLE : Not to use this function.
Trap type	Set the Local Trap and Global Trap.	LOCAL UDP IPX
Trap address(UDP)	Set the Trap Notice Address for UDP. Enter it in a decimal system as "###.###.###.###". When IP Address is 0.0.0.0, the trap will not be issued.	Default value 0.0.0.0
Trap address(IPX)	Enter the Trap Notice Address for IPX. Enter it as "Network Address (8 digits)+ Node Address (12 digits)". When it is 00000000:000000000000, the trap will not be issued.	Default value 00000000: 000000000000
Status		
Ready	Printer is on-line and ready to receive print data.	Note
Offline	Printer is off-line.	
Printer Error	Some printer error is caused. "Warning up" means Printer is getting ready for printing. Please wait for a moment.	
		Please confirm the message on Printer LCD.

Chapter

8

Troubleshooting

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Troubleshooting

Typical problems which may occur when the EtherNet Board is used and hints on how to solve such problems.

Trouble during the self-diagnosis test and while printing the configuration contents

No printing

- Confirm that DIP switch [3] (Configuration content printing) and [4] (Self-diagnosis test) of the EtherNet Board are on. Handle the DIP switches after turning the printer off.
- If the printer is on, turn the printer off and then on again.
- Set the printer emulation to “PCL” or “Automatic”.

NG is printed in the self-diagnosis test

If the ROM Check and RAM Check are NG

- Confirm that the EtherNet Board is installed, then turn the printer off and then on again.

If the EEPROM Check is NG

- Confirm that the EtherNet Board is installed, then turn the printer off and then on again.
- Turn the printer off, switch DIP switch [2] on and turn the printer on again, initialize the EtherNet Board.

If the NIC Check is NG

- Confirm that the EtherNet Board is installed, then turn the printer off and then on again.
- Confirm that the network cable is correctly connected. If possible, connect to the network of a different segment.

A Network Format Different Than the Format of the Network Connected is Printed

- Confirm that the network cable is installed, then turn the printer off and then on again.
- Change the network cable, then turn the printer off and then on again.

Trouble while using TCP/IP

The EtherNet Board is not identified

- If the printer is on, turn the printer off and then on again.
- Check if there is a response to ping.
- Check if the network cable is correctly connected. If needed, change the cable and try again.
- Run the EtherNet Board self-diagnosis test, check if the values of the “IP Address”, “Subnet Mask” and “Gateway Address” are correct. If they are incorrect, reset the relevant values.
- It is possible that the “TCP/IP protocol” of the EtherNet Board is disabled. If it is, change it to “Enable” using the EtherNet Board-related utility.
- Turn the printer off, switch on DIP Switch [2] of the EtherNet Board and turn the printer on again, initialize the EtherNet Board and reset the IP address.
- If DHCP, BOOTP and RARP are not used, disable the EtherNet Board “DHCP/BOOTP” and “RARP”.

Cannot print with lpr and ftp

- If the printer is on, turn the printer off and then on again.
 - Check if there is a response to ping.
 - Check if the network cable is correctly connected. If needed, change the cable and try again.
 - Check if the host name and IP address of the EtherNet Board are set in the workstation.
 - Check if the printer port name of the EtherNet Board is set in the workstation.
- There are 3 port names – lp, euc and sjis. euc and sjis are specific to postscript printers. If a printer driver is used, lp should be set.

The user name of the banner page?

- If printing with LPC, the User name printed is “unknown” and the File name printed is the “Spool file name”.
- If printing with FTP, the User name printed is the “User name typed in during the FTP login” and the File name printed is the “Transmitted file name”. If the print directory name is indicated in the put command, the File name is not printed. The Printer printed is the “Logical directory name”.

Trouble while using NetWare

The EtherNet Board is not identified

- If the printer is on, turn the printer off and then on again.
- Check if the network cable is correctly connected. If needed, change the cable and try again.
- If the utility related to the EtherNet Board is used, check if the NetWare network number of the environment settings is a valid value. The EtherNet Board cannot be identified unless a correct value is typed in. In addition, even in the case of a large-scale network environment, type in the NetWare network number in which the EtherNet Board resides.
- It is possible that the “NetWare protocol” of the EtherNet Board is disabled. If it is, change it to “Enable” using the EtherNet Board-related utility.
- Turn the printer off, switch on DIP Switch [2] of the EtherNet Board and turn the printer on again, initialize the EtherNet Board and reset the NetWare Board name, etc.

Identified by the Utility but not by the NetWare Server

<Remote Server Mode>

- Check if the print server which recorded the EtherNet Board on the file server is operating.
- Check if the “Print server name” operating on the file server and the “Print server name” set in the EtherNet Board are identical.
- Check if the “Printer name” displayed in the print server monitor of the file server and the “NetWare port name” set in the EtherNet Board are identical. If there are several EtherNet Boards, configure the settings so that the “NetWare port names” of two EtherNet Boards are not identical.

<Print Server Mode>

- Check if the “File server name” used and the “File server name” set in the EtherNet Board are identical.
- Check if the “Printer name” set in the file server and the “NetWare port name” set in the EtherNet Board are identical. If there are several EtherNet Boards, configure the settings so that no two “NetWare port names” of EtherNet Boards are identical.
- Check if the login password of the NetWare is identical.
- Check if the “Machine name” of the EtherNet Board is identical to the “Print server name” set in the file server.

Not printing

- Check if the network cable is correctly connected. If needed, change the cable and try again.
- If the printer is on, turn the printer off and then on again.

A PostScript Error Occurs If a Banner Page is Printed

- A PostScript banner page cannot be printed in the NetWare 3.12J remote printer mode. If a PostScript printer is used, therefore, and a banner page is printed, “PostScript error” is displayed. Make sure to turn the banner output “Off” in the client’s printing settings.

Trouble while using EtherTalk

Not identified by the Selector and the Related Utility

- If the printer is on, turn the printer off and then on again.
- Check if the network cable is correctly connected. If needed, change the cable and try again.
- In the case of a network residing in a zone, check if the correct zone name (the zone connected to the printer) is selected in the selector. In addition, check if the zone name in the utility related to the EtherNet Board is identical to the zone name set in the EtherNet Board.
- Check if the “AppleTalk”, displayed at the right bottom of the selector, is “Enabled”.
- Check if “Ethernet” is selected in the “AppleTalk” of the control panel. In some OS versions there is no “AppleTalk” but “Network”. In such a case, check if “EtherTalk” is selected.
- Check if the print driver that responded to the printer onto which the EtherNet Board is attached, is selected in the selector.
- The EtherTalk protocol of the EtherNet Board may have become disabled. In such a case, change it to “Enable” in the utility related to the EtherNet Board.
- Print the content of the EtherNet Board settings and confirm that the “EtherTalk port name” did not become blank.
- Turn the printer off, switch DIP switch [2] on and turn the printer on again, initialize the EtherNet Board and reset the printer driver.

Trouble while using NetBEUI

The EtherNet Board is not identified

- If the printer is on, turn the printer off and then on again.
- Check if the network cable is correctly connected. If needed, change the cable and try again.
- Check if “Microsoft network client” and “NetBEUI” have been added to the control panel network.
- The factory setting of the workgroup name is “PrintServer” and the computer name is the last 6 digits of the ML + Mac address.
- The computer name of the EtherNet Board may have been changed to the same name as the computer name that resides on the network. Initialize the EtherNet Board and make sure that there are no multiple computer names.

- The NetBEUI protocol of the EtherNet Board may have become disabled. In such a case, change it to “Enable” in the utility related to the EtherNet Board.

- Turn the printer off, switch DIP switch [2] on and turn the printer on again, initialize the EtherNet Board and reset the printer driver.

Error in writing to pm1

- The printer may have become offline. Turn it online.
- The paper may have run out, leading to an error message. Cancel the error.
- Another user may be printing. Print after the other user has finished printing.

Others

Changes the Kanji code, cannot print correctly

- Check the Kanji code used in the printing data. The EtherNet Board responds to Soft JIS and EUC PostScript Kanji files.

Appendices

Appendices

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Main Specifications

Item	Content
CPU	Falcon 33MHz
Network Interface	100BASE-TX 10BASE-T
Network protocols	IPX/SPX (NetWare) Remote printer mode Print server mode Frame types: IEEE802.2, IEEE802.3, Ethernet-II, SNAP EtherTalk DDP, NBP, AEP, TRMP, ATP, PAP, ZIP, AppleTalk phase2 TCP/IP FTP, LPD, TELNET, ARP, DHCP, BOOTP, RARP, ICMP, SNMP, HTTP NetBEUI AMB, NetBIOS
Functions	Banner print function (FTP, LPD) Kanji filter function (FTP, LPD)

IP Address Configuration Using DHCP, BOOTP, RARP

The IP address can be acquired from each server during printer operation under a network environment in which a DHCP server, BOOTP server or RARP server is used.

Before the configuration

In order to configure the DHCP server, BOOTP server or RARP server, there must be a super-user. If you do not have a super-user authorization, leave the configuration to the network manager.

Note

- Cannot be used if there is no DHCP server, BOOTP server or RARP server on the network.
- If you type in a wrong IP address the network may go down or other severe damage may occur. Set the configuration only after consulting your network manager.

Printer preparation

In order to use DHCP, BOOTP or RARP, you need to set DHCP/BOOTP or RARP to ENABLE on the Ethernet board. Use one of the following procedures to set up the Ethernet board.

Setting from utility

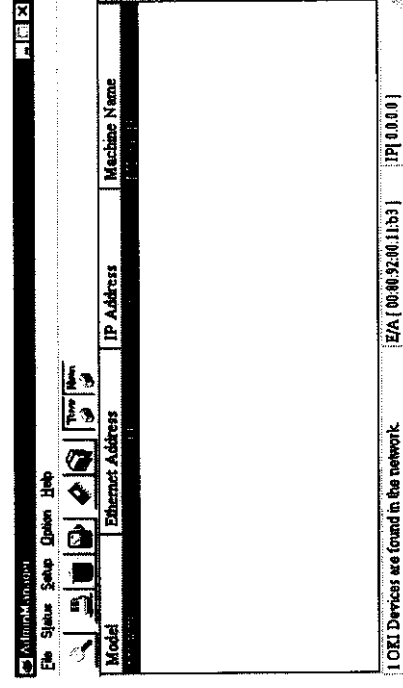
This section describes how to set up with the Standard Setup Utility for Windows. You can also use the Setup Utility for Macintosh, TELNET, etc., for this setting. Use the utility suitable for the environment of your network, referring to the following explanation.

The description begins at the point where the Standard Setup Utility has been started. For setting up the utility, refer to Chapter 7 Control of Ethernet Board.

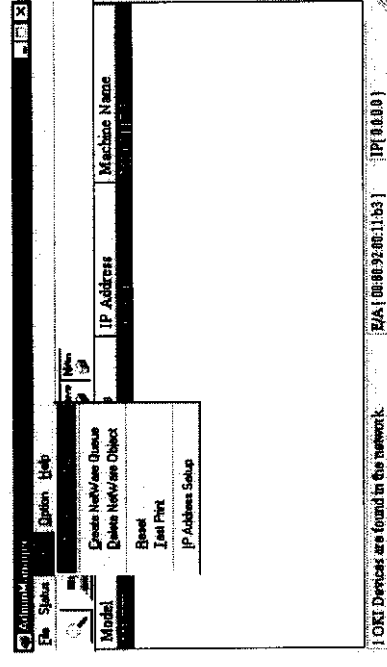
- 1 Referring to the Ethernet address, select the Ethernet board to be configured from the list.



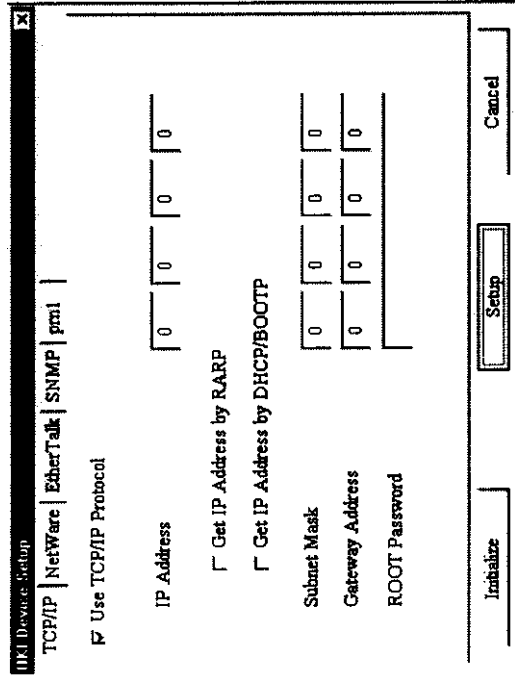
The Ethernet address appears on the self-diagnostics test print for the Ethernet board



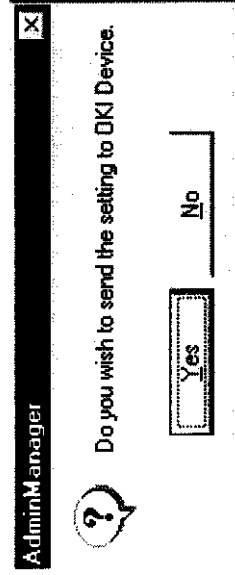
- 2 Select [OKI Device Setup] in the [Settings] menu.



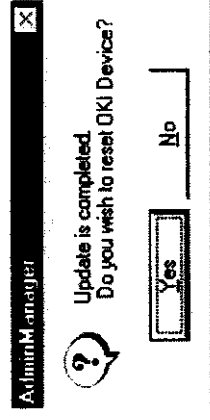
- 3 Check [Use DHCP/BOOTP] or [Use RARP] in the TCP/IP setting window and click [Set].
- 5 To make the new settings take effect, click [Yes].



- 4 If the settings are correct, click [Yes]. The settings are transmitted to the Ethernet board.



Note: At this point, the Ethernet board is still operating with the previous settings.



Note: If you select [NO], the new settings will take effect when the printer is turned off and then back on again. You may need to power cycle the printer depending on the model.

Configuration from TELNET

The EtherNet Board can be configured using the TELNET related to the workstation.

In the following explanation, SunSolaris2.4 is used as an example. The method of configuring each command may differ from one workstation to another. Refer to your workstation's manual.

1. Using the APR command, set a temporary IP address on the EtherNet Board.

Example: If the IP address is "192.168.20.127" and the EtherNet Board address is "00:80:92:01:00:D2" [then enter]

```
# arp -s 192.168.20.127 00:80:92:01:00:D2 temp
```



The EtherNet address (MAC Address) is displayed in the print menu of the printer.

2. Use the ping command to confirm the connection with the EtherNet Board.

Example: If the IP address is "192.168.20.127", [type]

```
#ping 192.168.20.127
```



If there is no reply, then there is a problem with the IP address configured under Step 2 or with the condition of the network. Consult your network manager.

3. Log into the EtherNet Board using TELNET. For details, see (Using TELNET) (Page 96).

4. In the TCP/IP configuration screen, change the "DHCP/BOOTP protocol" or "RARP protocol" to "Enable".

5. Login from the EtherNet Board.

In order to enable new settings, turn the printer off and then on again.



If the printer is not turned off and then on again, the EtherNet Board will continue to use the pre-transmission setting values. Make sure to turn the printer off and then on again.

Setting through DHCP

DHCP is a protocol for dynamically assigning IP addresses to each host on a TCP/IP network. It can set subnet masks as well as IP addresses.

Note

- *This function is not available unless there is a DHCP server on the network.*
- *[DHCP/BOOTP protocol] for the Ethernet board needs to be set to [ENABLE]. If [DISABLE] has been selected, see "Preparation of Your Printer" to change the setting to [ENABLE].*
- *Configure on the DHCP server so that a fixed IP address is assigned to the Ethernet board. If you select an IP address at random, you cannot use the network for printing. For the procedure for assigning a fixed IP address, see the manual for the DHCP server.*

Operation of the following DHCP servers has been verified.

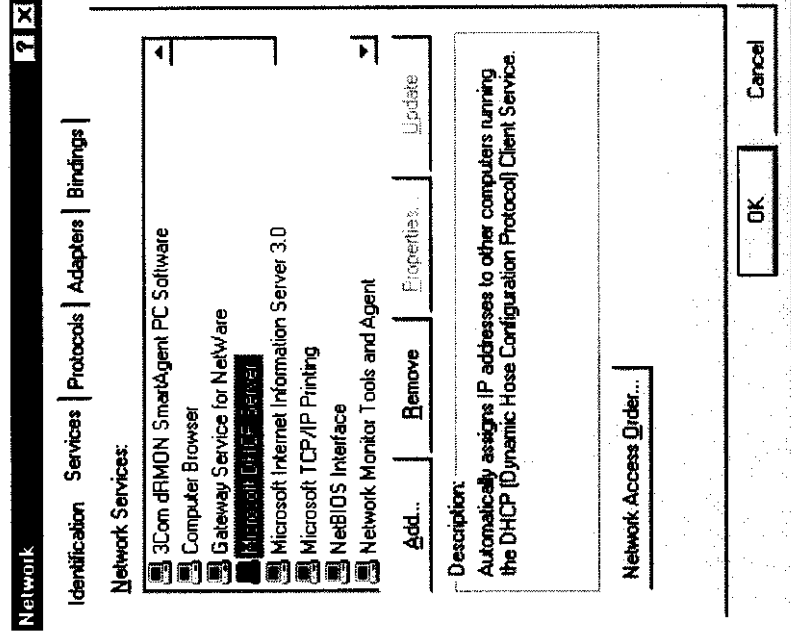
- *Windows NT Server4.0 DHCP server*
- *Windows NT Server4.0 DHCP relay agent*
- *Sun OS 4.1.3 + WIDE type DHCP version 1.3.6*

The board may not function normally on any other DHCP server.

The following description uses Windows NT Server4.0 DHCP server as an example.

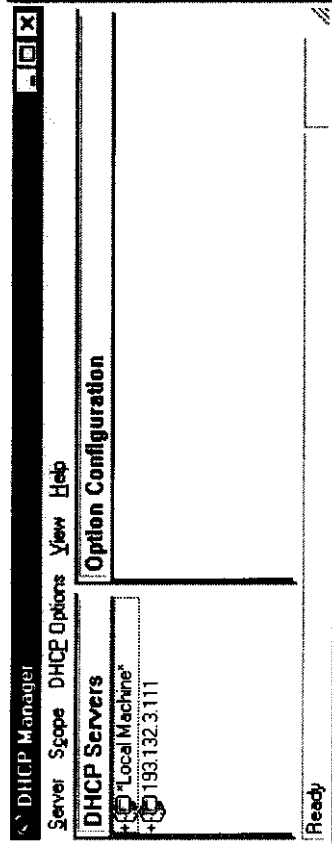
User Manual

- 1 Open [Network] in the [Control Panel].
- 2 Open the [Service] tab and check that [Microsoft DHCP server] is displayed. If it is not displayed, click [Add] and select [Microsoft DHCP server], then restart Windows NT4.0.

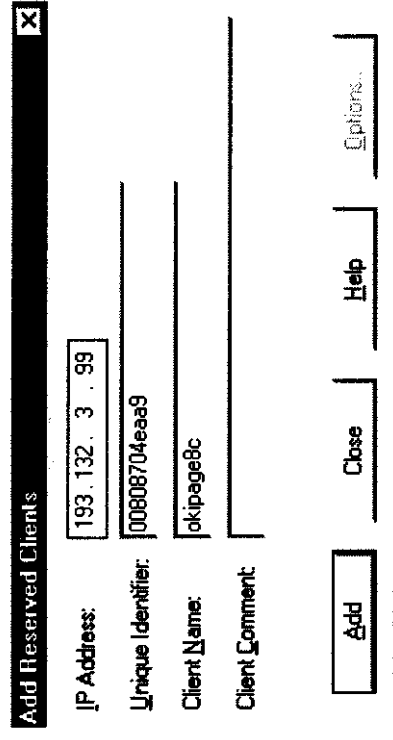


- 3 Click the [Start] button to start [DHCP Manager] form [Management Tools (common)] in [Program].

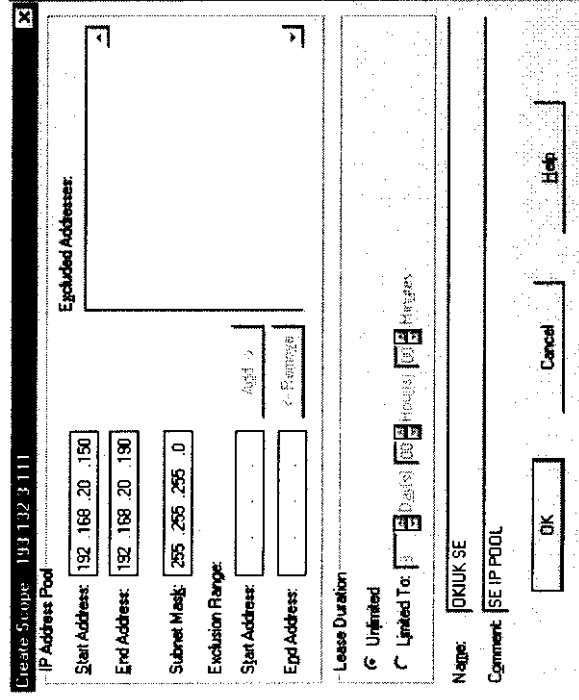
4 From the list of DHCP servers, click on a server for which you want to create a scope.



6 Select [Add Preselection] from the [Scope] menu, input the [IP address], [Unique ID] and [Client name] for the printer and click [Add]. Click [Close] to go back to the original screen.



5 Select [Create] from the [Scope] menu, set [IP address pool] and then click [OK].

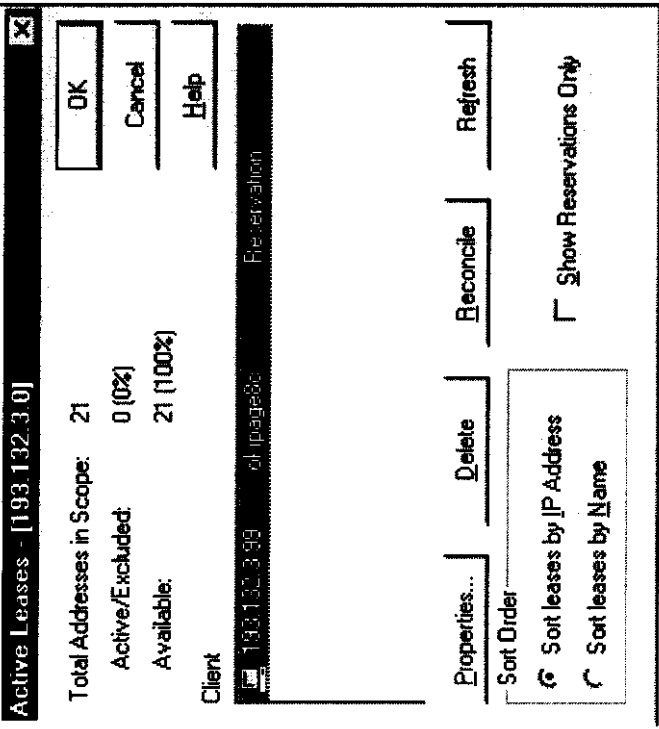


Note

Be sure to use [Add Preselection] to configure an IP address. If you do not, you cannot use TCP/IP for printing.

- *Input the Ethernet address of the Ethernet board into [Unique ID] and a name of your choice into [Client name].*
- *The Ethernet address for the Ethernet board appears on the self-diagnostics test print.*

7 Select [Activate] in the [Scope] menu to make the created scope active. If you select [Active Resource] in the [Scope] menu, you can check the state of your printer.



8 Switch the printer on.

Setting from BOOTP

BOOTP is a protocol for assigning IP addresses which have been registered on a BOOTP server to each host on the TCP/IP network. The printer will acquire an IP address when it is turned on.

[Note]

- This function is not available unless there is a *BOOTP* server on the network.
- [DHCP/BOOTP protocol] on the Ethernet board needs to be set to [ENABLE]. If it is set to [DISABLE], change the setting to [ENABLE], referring to Printer Preparation.

The following description uses the HP-UX 9.x BOOTP server as an example. If you use any other OS, make the same settings according to the manual for your workstation.

- 1 Register the IP address of the Ethernet board and host name in the /etc/hosts file.

Example: If the IP Address is "192.168.20.127" and host name is "OP8C".

192.168.20.127 OP8C

- 2 Add the following settings to the /etc/bootptab file.
Example: If the IP Address is "00:80:92:00:11:BC"

OP8C:\	The host name registered in /etc/hosts
ht=ether:\	Set the hardware type to "ether"
ha=0080920011bc:\	Ethernet address
ip=192.168.20.127:\	IP address
sm=255.255.255.0:\	Subnet mask
gw=192.168.20.254:\	Gateway

- 3 Add the following settings to the /etc/inetd.conf file.

bootps dgram udp wait root /etc/bootpd bootpd

- 4 Reboot the inetd.
kill -1 1
- 5 Switch the printer on.

Setting through RARP

RARP is a protocol for assigning IP addresses, which have been registered on a RARP server to each host on the TCP/IP network. The printer will acquire an IP address when it is turned on.

Note

- *This function is not available unless there is a RARD server on the network.*
- *[RARP protocol] of the Ethernet board needs to be set to [ENABLE]. If it is set to [DISABLE], change the setting to [ENABLE], referring to Printer Preparation.*

The following description uses the SunOS4.1.x RARP server as an example. If you use any other OS, including the System V series, make the same settings according to the manual of your workstation.

- 1 Register the IP address of the Ethernet board and host name in the /etc/hosts file

Example: If the IP Address is "192.168.20.127" and host name is "OP8C".

192.168.20.127 OP8C

- 2 Add a combination of the Ethernet address and host name to the /etc/ethers file. The host name is the same as that registered in the /etc/hosts file.

Example: If the Ethernet address of the Ethernet board is 00:80:92:00:11:BC.

00:80:92:00:11:BC OP8C

- 3 Start RARP.

#rarpd -a

Note

- *For starting the rarpd, see the manual for your workstation.*
- *It is useful to set up your workstation so that it will start up from a file such as /etc/rc, as the rarpd is required at each start-up.*

- 4 Switch the printer on.

7100E+

**EtherNet Board
User Manual**

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Explanation of symbols in this manual



Notes and restrictions concerning the correct operation of the Ethernet Board. Make sure to read them in order to avoid incorrect operation.



Useful tips and references for the operation of the Ethernet Board. Recommended to read.

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The software and documentation attached to the EtherNet Board are supplied by Oki Data Corporation. By using this software, the customer establishes a contract with Oki Data Corporation and accepts the restrictions described in the following clauses of this agreement.

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- (2) *All the copies of the software and documentation are transferred to the above-mentioned third party, or all the copies which were not transferred are destroyed.*
- (3) *The above-mentioned third party agrees with the restrictions of this agreement.*

In addition, it is forbidden to rent, lease, distribute, reproduce or transfer the software.

The customer agrees not to ship, transfer, export or re-export the software out of Japan and not to use it in any illegal way.

4. If the customer breached the clauses of this agreement, Oki Data Corporation may discontinue the use of the software

and documentation of the customer and cancel the license agreement. If such cancellation took place, the customer will destroy the software and documentation and all copies thereof and will stop using the trademark.

5. Oki Data Corporation and the licensors of Oki Data Corporation do not give any guarantees, including the following, in relation to the software or documentation.

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English

This product complies with the requirements of the Council Directives 89/336/EEC and 73/23/EEC on the approximation of the laws of the member states relating to electromagnetic compatibility and low voltage.

As an ENERGY STAR Partner, Oki has determined that this product meets the ENERGY STAR guidelines for energy efficiency.



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Chapter

1

Installing the EtherNet Board

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Installing the EtherNet Board

Major features of the board 7100E+

Compatible with multiple protocols

- Compatible with the four network protocols – EtherTalk, TCP/IP, IPX/SPX and NetBEUI.

Dedicated network utility included

- The EtherNet Board can be configured from Windows98/95, NT4.0 and Macintosh.

Manageable from a Web Browser

- If it is connected with TCP/IP, the EtherNet Board and the printer menu can be configured from a Web Browser such as Microsoft Internet Explorer or Netscape Navigator.

Compatible with SNMP

- Packages an SNMP agent which operates in UDP

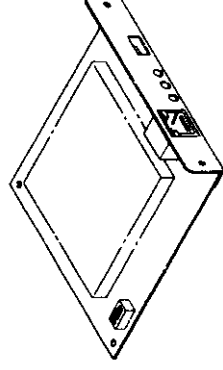
Note

The 7100E+ is a general-purpose EtherNet Board. Please note that, depending on the printer installed, some functions may become unusable.

Product identification

Please check that the following products are all present.

The EtherNet Board itself

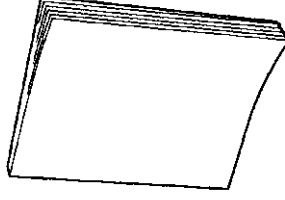


Mounting screws (2)



EtherNet Board

User Manual (booklet)

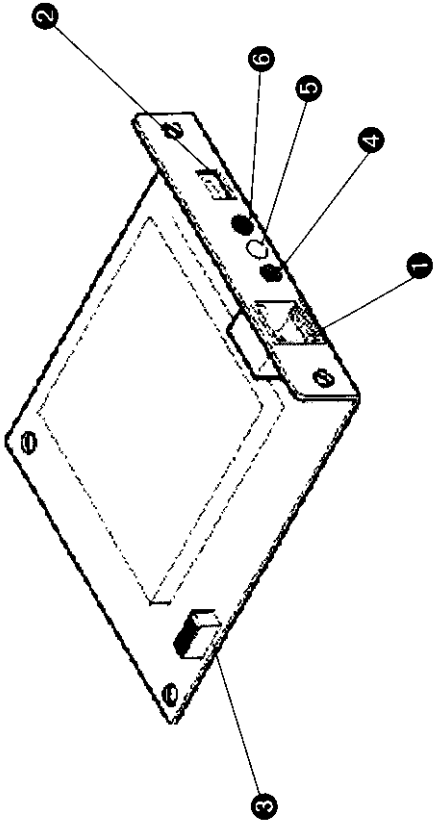


Warranty

Network software CD-ROM



Part names of the Ethernet Board



① Connector for 100BASE-TX/10BASE-T

Connected with a twisted pair cable.

Note Automatically switches over between 100BASE-TX and 10BASE-T

② DIP switches

For initialization of the EtherNet Board, verification of the settings contents and the self-diagnosis test. Refer to Page 14 for the function of each switch.

- ③ The board is configure with [1] on [ON] and [2, 3, 4] on [OFF]. Do not change these settings.

Note These DIP switches are not used.

④ STAT LED (orange lamp)

Flashes during data reception. In the case that abnormality of the EtherNet Board was detected, performs one of the following.

- Flashes at set intervals
- Stays switched on
- Stays switched off

⑤ LINK 100M LED (green lamp, center)

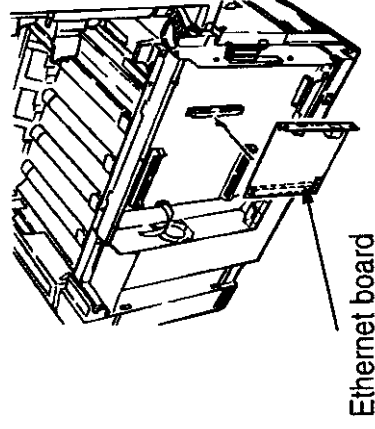
Lit during connection with 100BASE-TX.

⑥ LINK 10M LED (green lamp, from cable)

Lit during connection with 10BASE-T.

Mounting on a printer

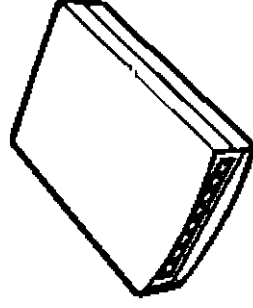
The method of mounting the EtherNet Board differs from one printer to another. For details refer to your printer's User Manual.



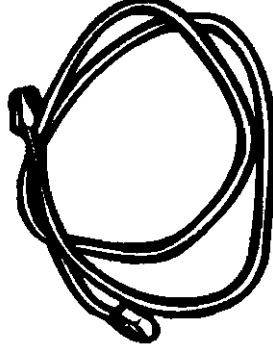
Connecting to a network

Needed for the connection

The following products are needed in order to connect the EtherNet Board to a network. If needed, these products can be purchased from a network product supplier.



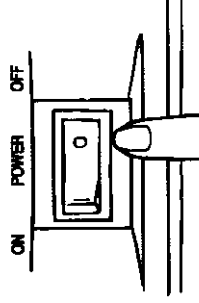
Hub



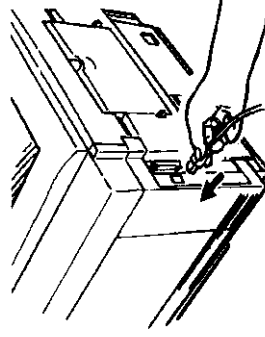
Twisted pair cable
(Category 5 Straight)

The connection process

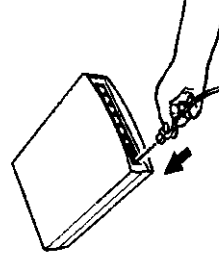
1. Turn OFF the printer's power switch



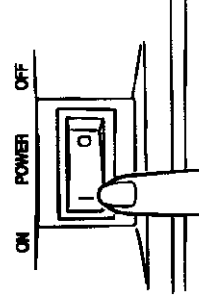
2. Insert the twisted pair cable into the EthernetNet Board connector.



3. Insert the other end of the twisted pair cable into the hub.



4. Turn ON the printer's power switch.



Note

In the case that the network used includes a router and a server, start the router and the server and only then turn ON the printer's power switch. If the printer's power switch is turned ON before the router and the server, the network may not function normally.

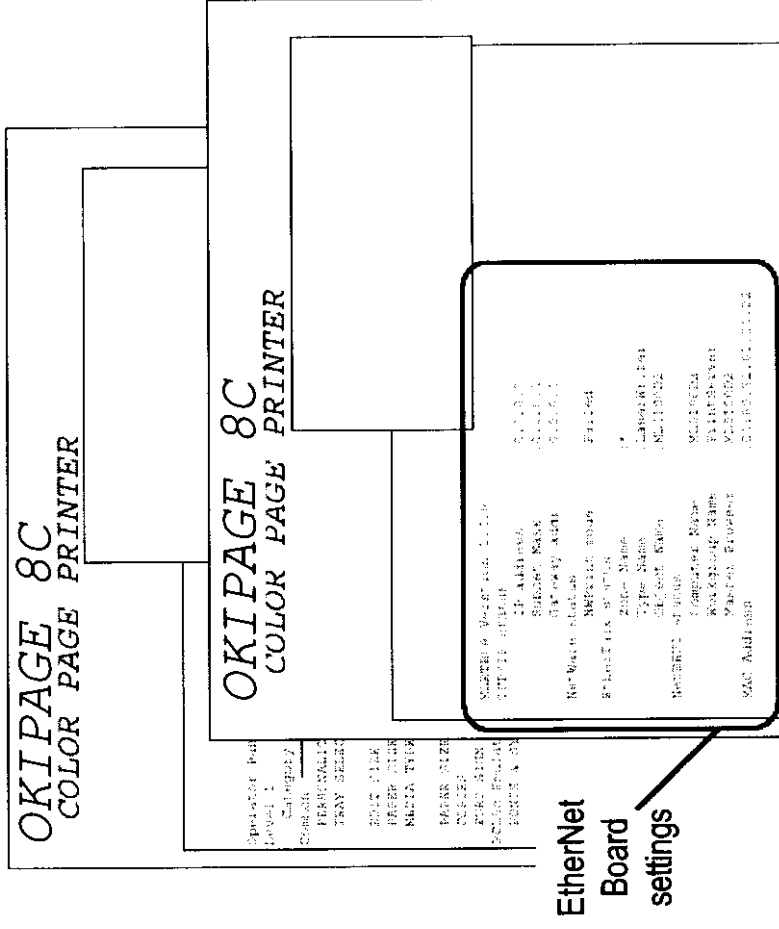
Verification of the “print menu” of the printer

In order to use the EtherNet Board, the EtherNet Board settings must first be verified. You can verify these settings by using the “print menu” of the printer.

Note *The method of menu printing differs from one printer to another. For details refer to the your printer’s user manual.*

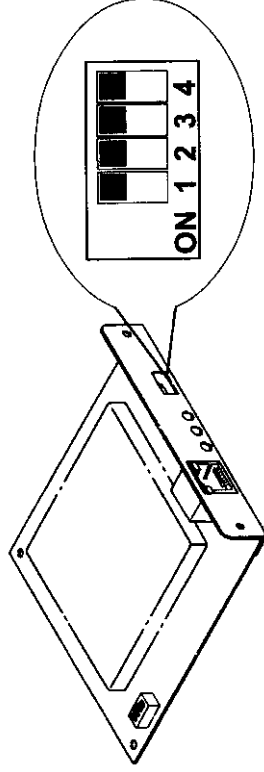
In the following explanation, OKIPAGE 8c is used as an example.

1. Press **ON-LINE**, the printer switches to “Online”.
2. Hold down “print menu” for more than 2 seconds, the printer switches to “menu printing”
Menu printing begins.
3. After the menu printing is completed, press **ON-LINE**, the printer switches to “Online”.



Functions of the DIP Switches

By using the DIP Switches of the EtherNet Board, initialization of the EtherNet Board, verification of its settings and the self-diagnosis test can be performed.



DIP Switches

Note During normal operation, all the DIP Switches should be switched OFF. In order to change the settings of the DIP Switches, turn the printer's power switch OFF. DIP Switch No. 1 is normally OFF.

Initialization of the EtherNet Board

1. Turn the printer's power switch OFF.
2. Turn DIP Switch No. 2 ON.
3. Turn the printer's power switch ON.
The EtherNet Board is initialized.
4. Make sure that the printer is fully operative and turn the printer's power switch OFF.
5. Turn DIP Switch No. 2 OFF.

Note If the EtherNet Board was used even once with a different network, it has to be initialized before it can be used.

Verification of the settings contents

1. Turn the printer's power switch OFF.
 2. Turn DIP Switch No. 3 ON.
 3. Turn the printer's power switch ON.
- The current settings contents are printed.
4. Turn the printer's power switch OFF.
 5. Turn DIP Switch No. 3 OFF.

<Example of printing the settings contents>

[illegible]

```

EtherNet/IP v1.0.0
Copyright 1998-2001 Xxi Data Corporation
Copyright 1998-2001 Japan Computer Industry ..

*** Configuration report ***
TCP/IP protocol : ENABLE
IP address      : 0.0.0.0
Subnet mask     : 0.0.0.0
Gateway address : 0.0.0.0
BACnet protocol : DISABLE
DDEP/BACnet port : DISABLE
Root password   : ""
Autonomic community : ""
Trap community  : "public"
Trap address    : 0.0.0.0
SysContact     : ""
System         : ""
Systemation    : ""
Default user   : root
EthernetAdapter : 2
Network protocol : TCP/IP
Packet type    : BROADCAST
Network mode   : SERVER
SERVER name 1  : ""
SERVER name 2  : ""
SERVER name 3  : ""
SERVER name 4  : ""
SERVER name 5  : ""
SERVER name 6  : ""
SERVER name 7  : ""
SERVER name 8  : ""
Machine name   : ""
Password       : "PW101002"
JOC polling interval : 10
Broadcast mode  : ENABLE
NDS base       : ""
NDS database   : ""
SERVER name 1  : ""
SERVER name 2  : ""
SERVER name 3  : ""
SERVER name 4  : ""
SERVER name 5  : ""
SERVER name 6  : ""
SERVER name 7  : ""
SERVER name 8  : ""
Get time-out  : 10

```

Self-diagnosis test

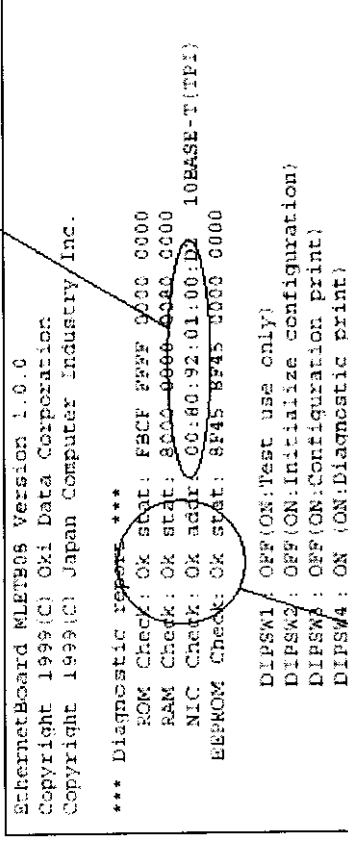
1. Turn the printer's power switch OFF.
2. Turn DIP Switch No. 4 ON.
3. Turn the printer's power switch ON.

The results of the self-diagnosis are printed.

4. Turn the printer's power switch OFF.
5. Turn DIP Switch No. 4 OFF.

<Example of printing the self-diagnosis test>

EtherNet address



Note If “NG” is indicated, refer to “Chapter 8 Trouble Shooting”.

Chapter

2

Printing from Windows98/95

OKI LPR Utility Operating Environment	19
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Printing from Windows 95/98

In order to print from Windows 95/98 via TCP/IP, it is necessary to set up the Ethernet board and Windows 95/98. Windows 95/98 does not include a LPR printing function, so you must use the OKI LPR utility. This utility can be found on the accompanying CDROM.

OKI LPR Utility Operating Environment

- A computer which runs Windows 95/98 and which has a network adapter supporting TCP/IP.
- A compatible printer such as;
 - OKIPAGE 16n
 - OKIPAGE 20 series
 - OKIPAGE 8c

Note! *The operation of this LPR utility cannot be guaranteed with any printer other than those specified above..*

Configuring Windows 98/95

Install "TCP/IP" protocol in Windows 98/95 and configure the IP address, subnet and gateway.

Note! *If you type in a wrong IP address, the network may go down or other severe damage may occur. Make sure to check with the network manager and to determine the appropriate address.*

In the case that a small-scale LAN is included, such as a network connecting one printer and one computer, refer to Page 18 for the settings.

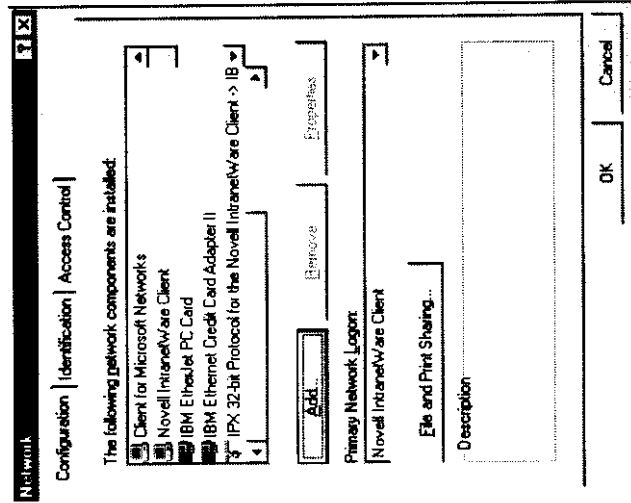
In the following explanation, Window 98 is used as an example. The screen display and part of the contents of the selected directory may differ, depending on the OS version and the system structure.

Please have ready the "Windows 98/95 System Software CD-ROM".

1. Start the "Network" control panel.

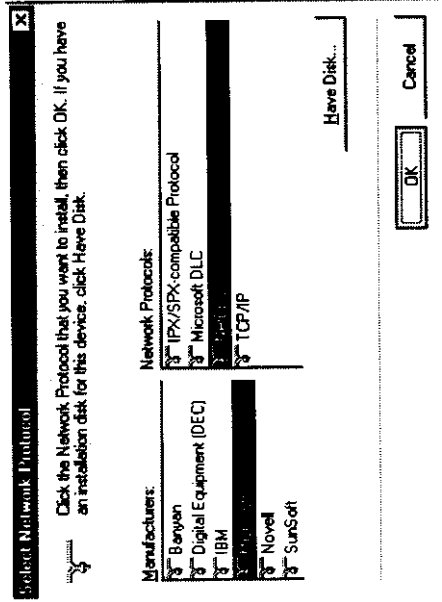
2. Open the "Network configurations" tab and confirm that "TCP/IP→XXX" is displayed.

If "TCP/IP→XXX" is not displayed, click on "Add".

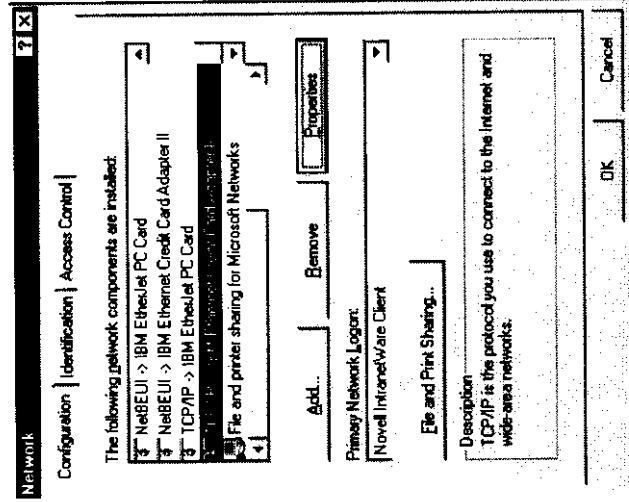


3. Select "Protocol" and click on "Add".

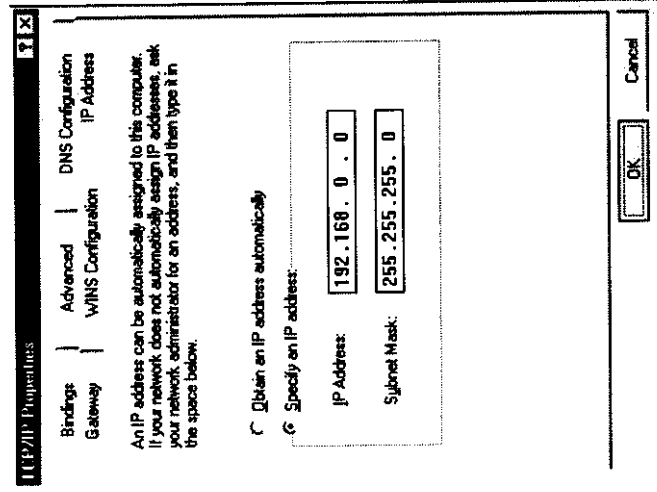
4. Select "Microsoft" and "TCP/IP", click on "OK".



5. Select "TCP/IP→XXX", click on "Properties".



6. Configure each of the “IP address, Subnet Mask, Gateway, DNS Settings”.



7. Restart Windows 98/95.

Configuring the IP address for the EtherNet Board

Use the Standard Setup Utility (Window) attached to the EtherNet Board and configure the IP address of the EtherNet Board, the subnet mask and the gateway.

For the details of the Standard Setup Utility, refer to “Chapter 7 EtherNet Board Management”.

Please have ready the “EtherNet Board’s companion CD-ROM”.

Note! *If you type in the wrong IP address, subnet mask or gateway, the network may go down or other severe damage may occur. Make sure to check with the network manager and to determine the appropriate address.*

1. Connect the EtherNet Board to the network and turn ON the printer’s power switch.

2. Configure the computer to the “EtherNet Board’s companion Network Software CD-ROM”.

The Setup Utility starts automatically.

Note! *If the Setup Utility does not start automatically, double-click on “Autorun.exe” in the “Windows” folder of the CD-ROM.*

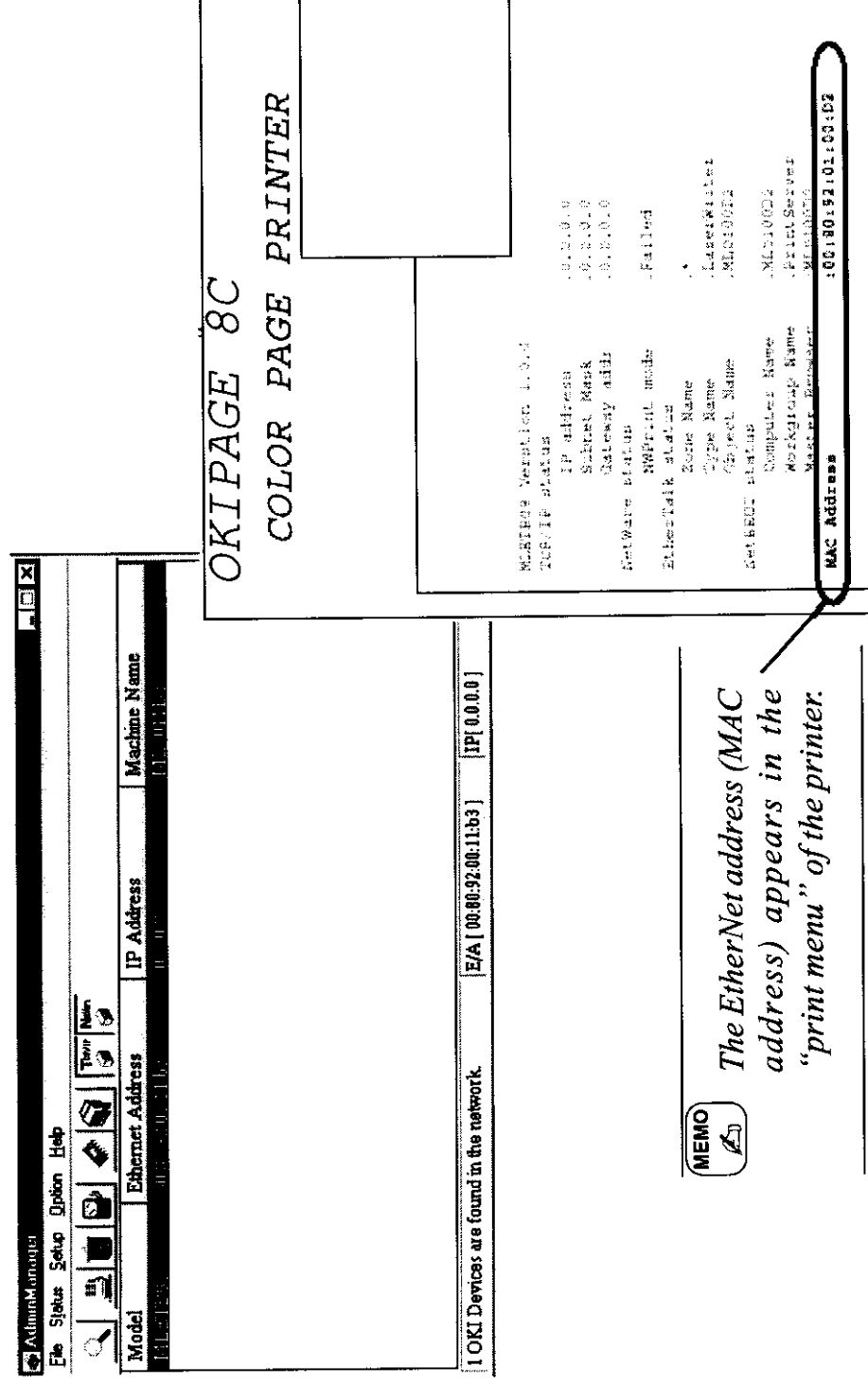
3. Click on “English”.

The “Setup Utility” screen is displayed.

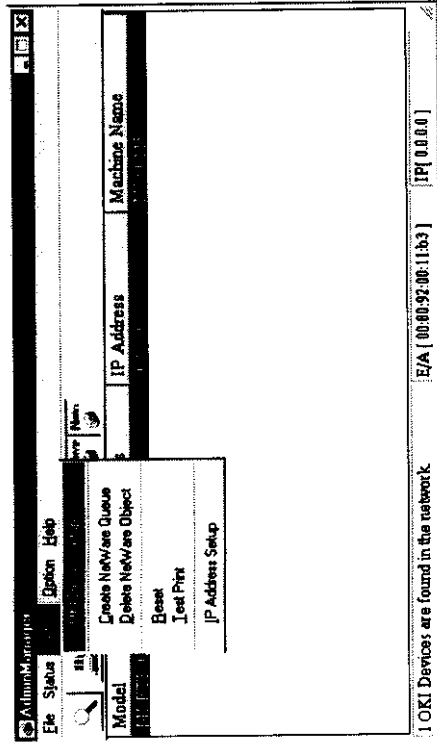
4. Click on “OKI Device Standard Setup”.

5. Select “Without installing, start directly from the CD-ROM” and click on “Next”.

6. If you agree to the User License Agreement, click on “Yes”.
Starts the “AdminManager”.
7. Look up the EtherNet address in the list and select the EtherNet Board performing the settings.

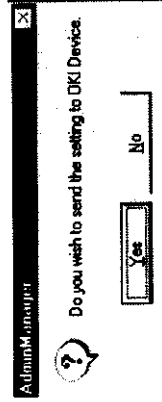


8. Choose the "OKI Device Settings" in the "Setup" menu.

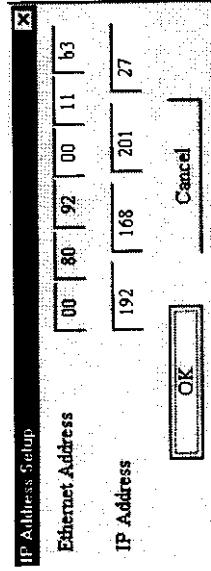


<In case that TCP/IP protocol is the only working protocol>

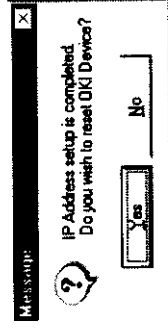
- (1) When the next message is displayed, click on "Yes".



- (2) Type in the EtherNet address and the "IP address" which configured it, and click on "OK".

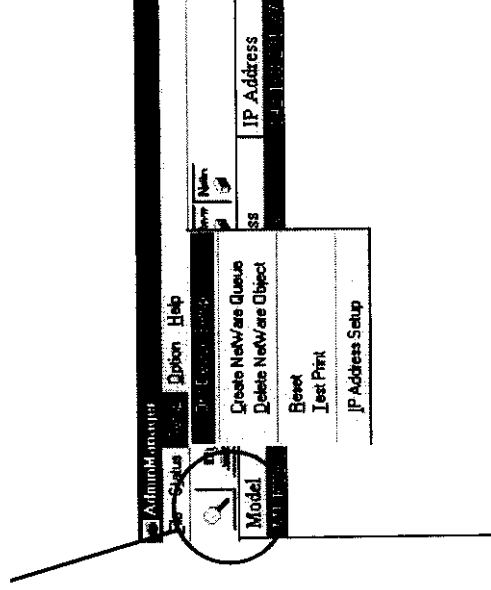


- (3) Click on "Yes" in order to validate the values set.

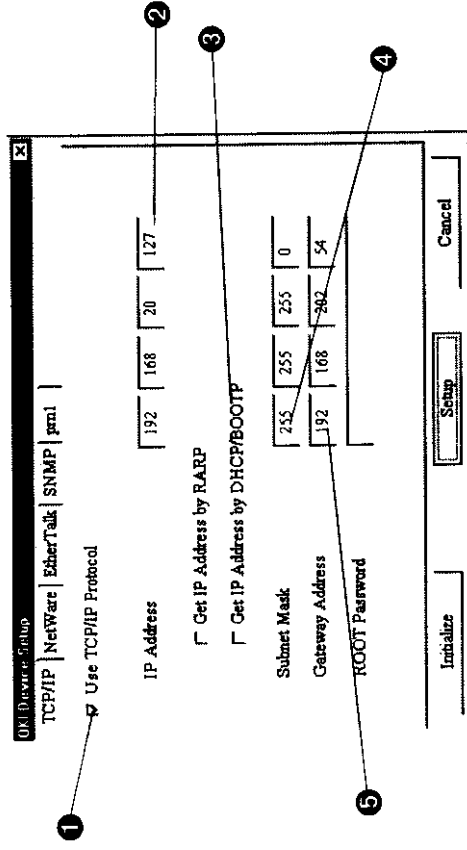


- (4) After a while, the EtherNet Board is displayed in the list. Select the EtherNet Board displayed and choose the "OKI Device Settings".

If the EtherNet Board is not displayed, click on the "OKI Device search" button.



- Configure the TCP/IP Tab item and click on “Settings”.



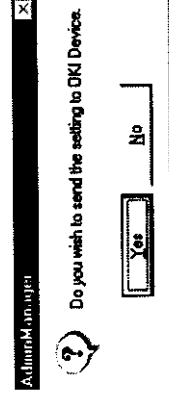
- Check the “Use the TCP/IP protocol”.
- Type in the “IP address”.
- Uncheck the “Use RAPP” and “Use DHCP/BOOTP”.

Note *In the case that the IP address is obtained from the RARP server, DHCP server or BOOTP server, check in accordance with the network environment. In the case that no server exists, you must uncheck or severe damage may be caused to the network*

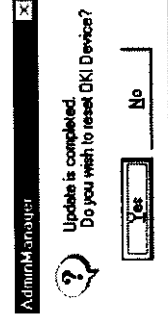
- Type in the “Subnet mask”.
- Type in the “Gateway address”.

- If the settings are all correct, click on “Yes”. The values set are transmitted to the EtherNet Board.

Note *At this point, however, the EtherNet Board operates on the pre-transmission values set.*



- In order to validate the values set, click on “Yes”.



- Select “Exit” in the “File” menu and close the AdminManager. Next, click on “Exit” in the Setup Utility to quit the Setup Utility.

In case a small-scale LAN is included, such as a network connecting one printer and one computer, configure as follows (using "RFC1918"). For the computer settings please refer to Page 18 and for the printer settings please refer to Page 21.

Please make sure that no other networks are linked. If other network are linked, severe damage may be caused to the network if the following settings are used.

- ① IP address: The top 3 numbers 192.168.0 fixed
 The 4th number Between 1 and 254
- If necessary, use a different [IP address] for the computer and printer
 (example) Computer : 192.168.0.1
 Printer : 192.168.0.2

- ② Subnet mask: 255.255.255.0 fixed

- ③ Gateway: 0.0.0.0 fixed

- ④ DNS: Disable DNS

<Computer>

TIU2IP Properties

Bindings | Advanced | NetBIOS

DNS Configuration | Gateway | WINS Configuration | IP Address

An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.

☐ Obtain an IP address automatically

☒ Specify an IP address

IP Address: 192.168.0.5

Subnet Mask: 255.255.255.0

TIU2IP Properties

Bindings | Advanced | NetBIOS

DNS Configuration | Gateway | WINS Configuration | IP Address

The first gateway in the installed Gateway list will be the default. The address order in the list will be the order in which these machines are used.

New gateway: 0.0.0.0 [Add]

Installed gateway: 0.0.0.0 [Remove]

TIU2IP Properties

Bindings | Advanced | NetBIOS

DNS Configuration | Gateway | WINS Configuration | IP Address

☒ Enable DNS

☐ Disable DNS

Host: [] Domain: []

DNS Server Search Order: [] [Add]

<Printer>

TIU2IP Properties

Bindings | Advanced | NetBIOS

DNS Configuration | Gateway | WINS Configuration | IP Address

An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.

☐ Obtain an IP address by DHCP

☒ Obtain an IP address by DHCPBOOTP

Subnet Mask: 255.255.255.0

Gateway Address: 192.168.0.127

Root Password: []

Setting up the printer software

Next, set up the printer software. After adding the printer driver in Windows98/95 as the “Default local printer”, perform the setup.

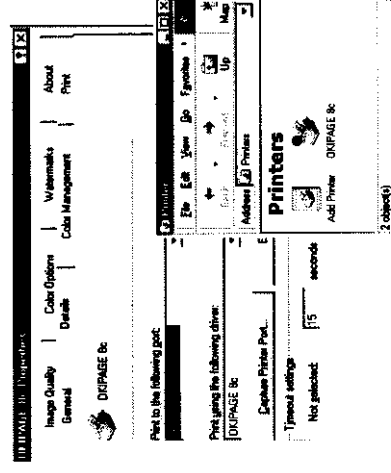
Note *Set up the OKI LPR utility on a hard disc drive with ample free space. If there is insufficient free space on the hard disc, attempting to print a large volume of data or too many print jobs may cause failure of the data spool and the printer may fail to print.*

In the following explanation, setting up OKIPAGE 8c(PS) as the printer in Windows98 is used as an example.

Please have ready the “EtherNet Board’s companion network software CD-ROM”.

1. Set up the printer driver as the “Default local printer”.

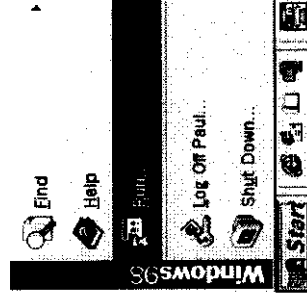
Please refer to the your printer’s user manual for instructions on how to set up your printer driver.



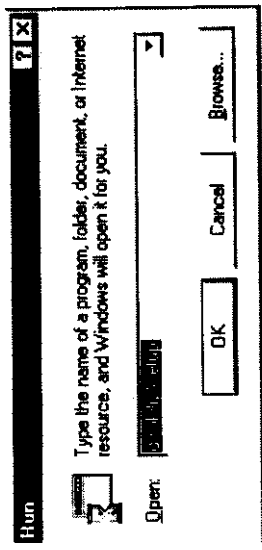
2. Insert the “EtherNet Board’s companion network software CD-ROM” into the computer.

The Setup Utility starts automatically and is exited by clicking on “Exit”.

3. Click on the “Start” button and select “Specify the file name”.

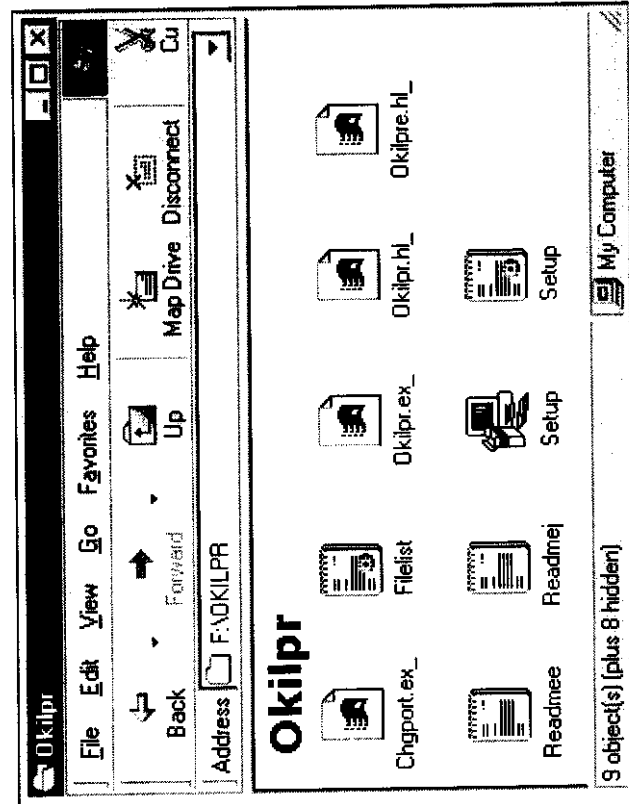


4. In "Name" type in "D:\OKILPR\SETUP" (when the CD-ROM drive is D:) and click on "OK".

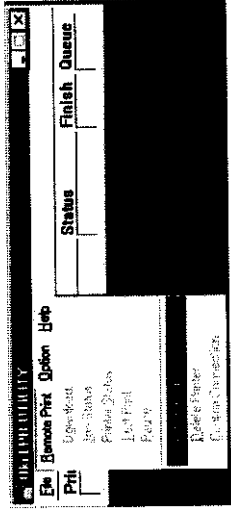


The setup program starts. Proceed with the setup following the instructions on the screen.

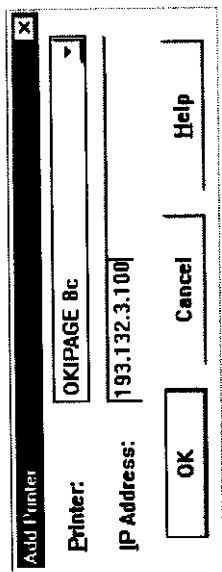
5. After completing the setup, double-click on the "OKI LPR utility".



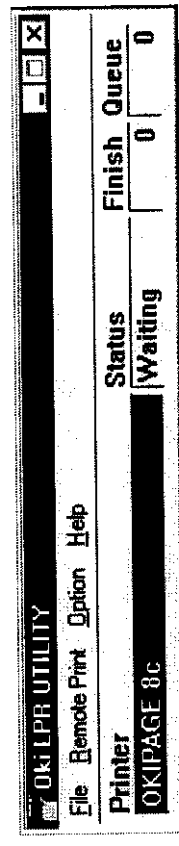
6. Select "Add printer" from the "Remote printer" menu.



7. Among the "Printers", select the printer added in process 1 and type in the IP address of the EtherNet Board under "IP address". If the printer and the IP address are correct, click on "OK".



8. The printer is added in the main window.



The setup is then completed.

While the OKI LPR utility is operating, printing is from the application software.

Note ✓

- *The OKI LPR utility is capable of registering up to 10 printers.*
 - *In order to delete the OKI LPR utility, start the setup program of the OKI LPR utility (Procedure 4) and select “Utility deletion”.*
 - *If the install pre-directory and spool directory of the OKI LPR utility contain files which were added after the installation, the directory cannot be deleted. Run “Utility deletion” only after deleting the files added.*
 - *Please do not change the “Spool settings” of the “Details” tab of the printer driver properties from “No support of bidirectional transmission of this printer”. If you do, errors may occur during printing.*
 - *In the case that a postscript printer is used, although “Data format” can be selected in the “Detail setting” of the “PostScript” tab of the printer driver “Properties”, only “ASCII data” should be selected here. In the case that anything other than “ASCII data” is selected, a postscript error may occur.*
- In addition, in applications capable of specifying the data format in the printing options (Adobe Photoshop, QuarkXpress, etc.), please make sure to select “ASCII”. If anything other than “ASCII” is selected, a postscript error may occur.*

With the NetBUEI protocol

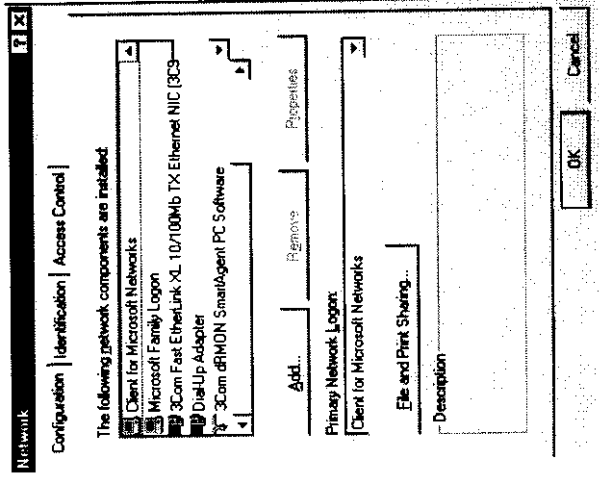
Configuring Windows98/95

In the following explanation, Window98 is used as an example. The screen display and part of the contents of the selected branch may differ, depending on the OS version and the system structure.

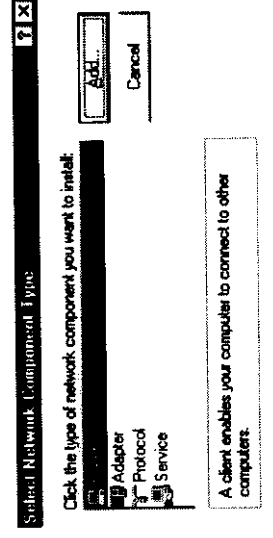
Please have ready the "Windows98/95 System Software CD-ROM".

1. Start the "Network" control panel.
2. Confirm that "Microsoft network client" and "NetBEUI→XXX" are displayed.

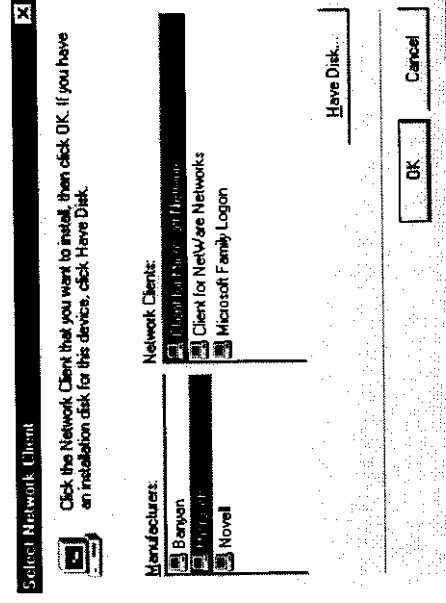
If "NetBEUI→XXX" is not displayed, click on "Add".



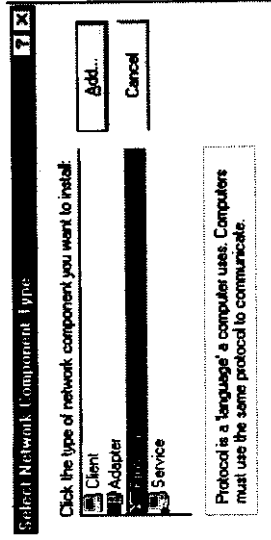
3. In the case that "Microsoft network client" is not displayed, select "Client" and click on "Add".



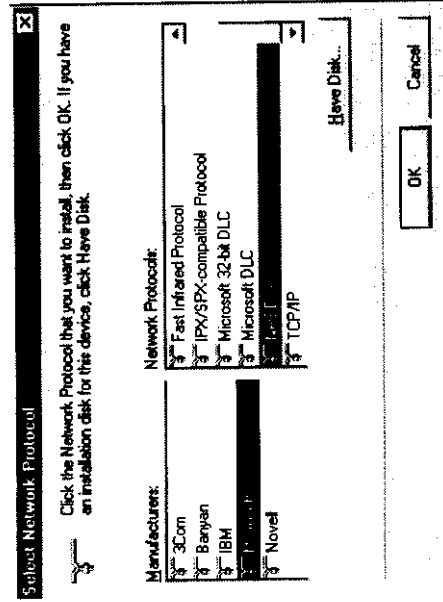
4. Select "Microsoft" and "Microsoft network client", click on "OK".



5. In the case that "NetBEUI→XXX" is not displayed, select "Protocol" and click on "Add".



6. Select "Microsoft" and "NetBEUI", click on "OK".



7. Restart Windows 98/95.

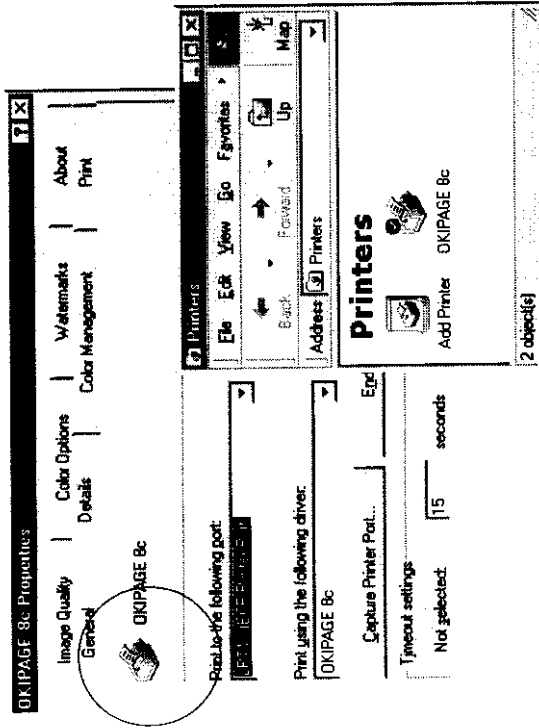
Setting up the printer software

Next, set up the printer software. After adding the printer driver in Windows98/95 as the “Default local printer”, perform the setup.

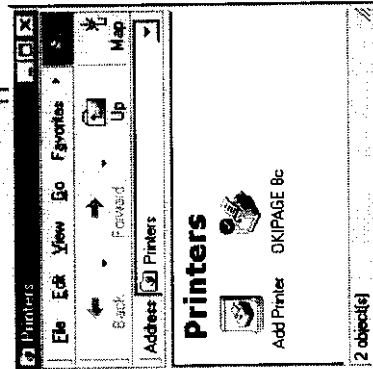
In the following explanation, setting up OKIPAGE 8c(PS) as the printer in Windows98 is used as an example.

1. Set up the printer driver as the “Default local printer”.

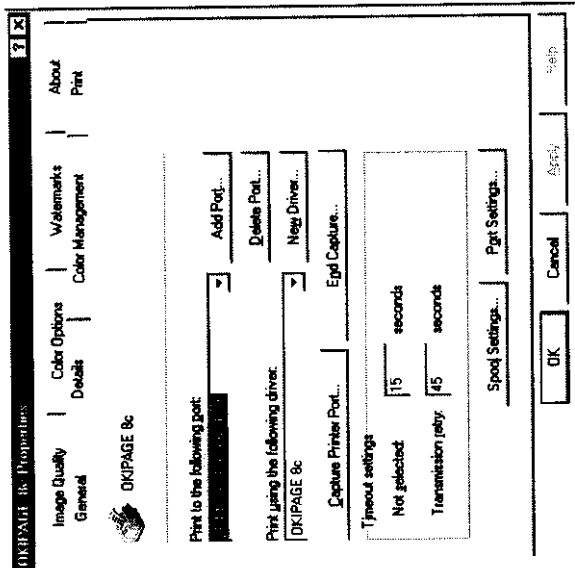
Please refer to the your printer’s user manual for instructions on how to set up your printer driver.



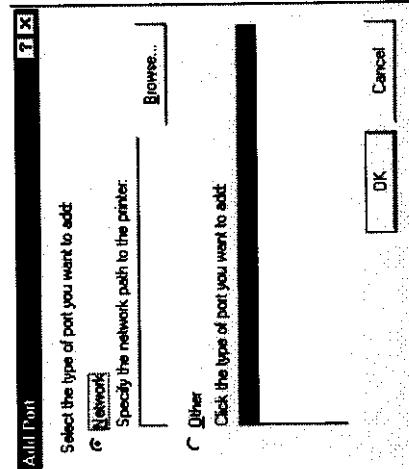
2. Open the “Details” tab of the printer driver.



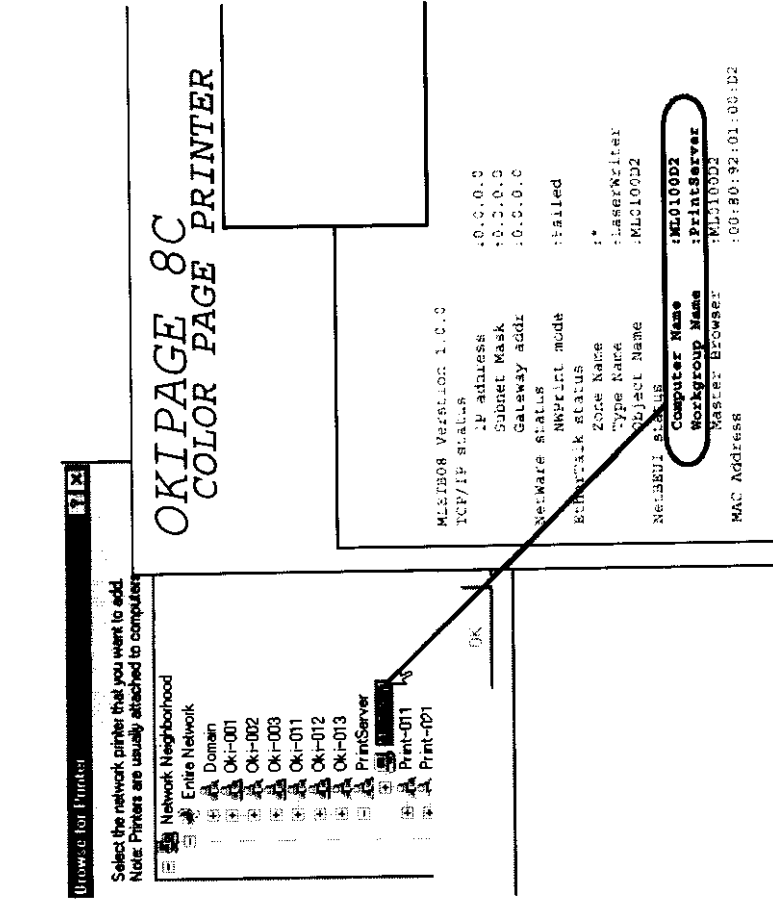
3. Click on “Open port”.



4. Select “Network” and click on “Reference”.

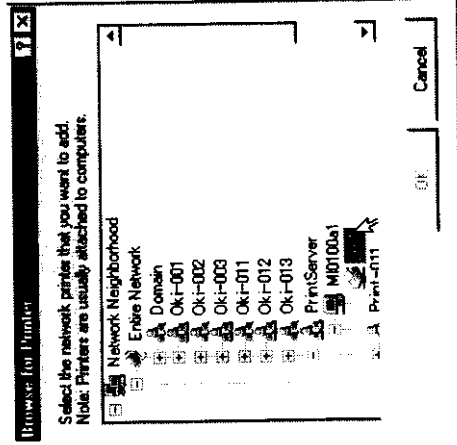


- Double-click on “Network entirety” – “PrintServer” – “MLxxxxxx”.

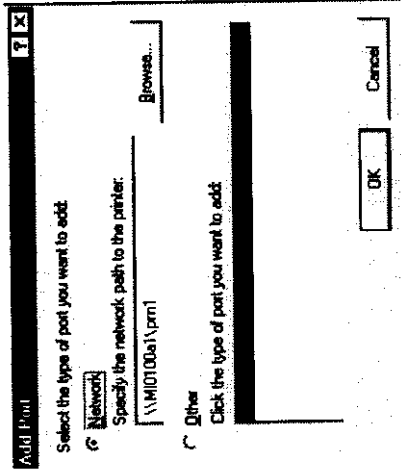


The “PrintServer” is the “Workgroup Name” displayed in the “print menu” of the printer:
 “MLxxxxxx” is the “Computer Name” displayed in the “print menu” of the printer.

- Select “Pm1” and click on “OK”.



- Confirm that “Network pass to the printer” is indicated and click on “OK”. Properties closes.



The setup is completed.

Printing is from the application software.

- The “Computer name” name and “Workgroup” name can be changed using a Web Browser, , etc.
- The Master Browser function manages the machine information which exists within the same Workgroup, and replies to summary requests from other Workgroups.
- The Master Browser function of this EtherNet Board operates only if the Workgroup name is “PrintServer”.
- The Master Browser function cannot manage anything other than this EtherNet Board. If the “PrintServer” name is put into another Workgroup, the EtherNet Board will not be able to find it in the network.
- A maximum of 8 EtherNet Boards can be managed by the Master Browser function.

Chapter

3

Printing From WindowsNT 4.0

With the TCP/IP protocol	36
With the NetBEUI protocol	45

Printing From WindowsNT 4.0

In order to print from WindowsNT Server 4.0 or WindowsNT Workstations 4.0, WindowsNT 4.0 and the EtherNet Board have to be set up. The TCP/IP protocol and NetBEUI protocol can be used from WindowsNT 4.0.

Note! *The "AppleTalk Printing Devices" output port of WindowsNT 4.0 is dedicated to postscript printers. It cannot be used for printers other than postscript printers.*

With the TCP/IP protocol

Configuring the WindowsNT 4.0

Adds the "TCP/IP protocol" and "Microsoft TCP/IP printing" services to WindowsNT 4.0, sets the IP address, subnet mask and gateway.

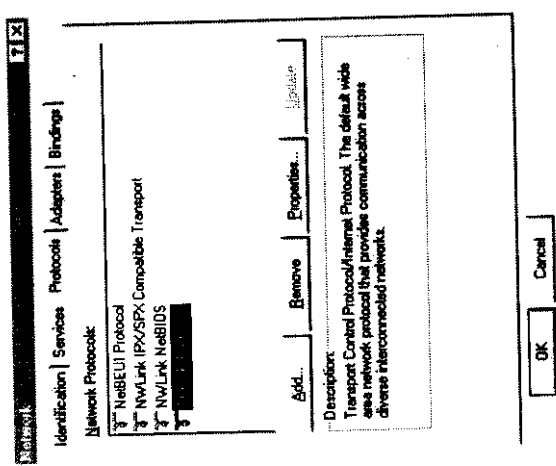
Note!

- If you type in a wrong IP address, the network may go down or other severe damage may occur. Make sure to check with the network manager and to determine the appropriate address.*
- In the case that a small-scale LAN is included, such as a network connecting one printer and one computer, refer to Page 18 for the settings.*
- If WindowsNT 4.0 is set, login must be done with the Administrator's authorization.*

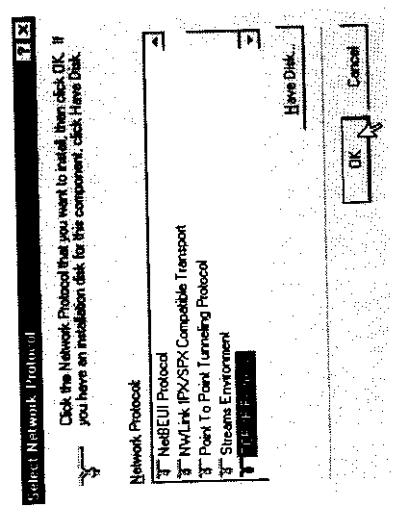
In the following explanation, WindowsNT Server 4.0 is used as an example. The screen display and part of the contents of the selected branch may differ, depending on the OS version and the system structure.

Please have ready the "WindowsNT 4.0 System Software CD-ROM".

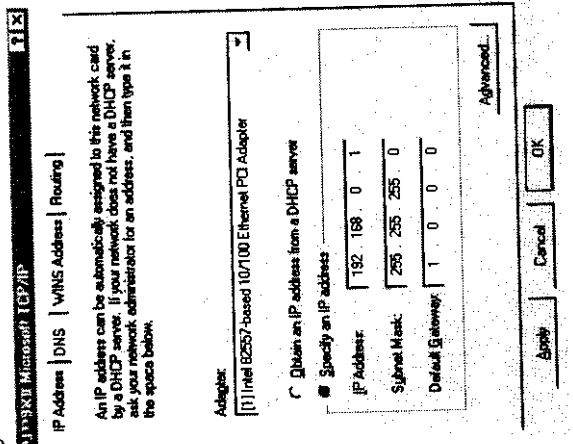
1. Start the "Network" control panel.
2. Open the "Protocol" tab and confirm that "TCP/IP protocol" is displayed.
If "TCP/IP protocol" is not displayed, click on "Add".



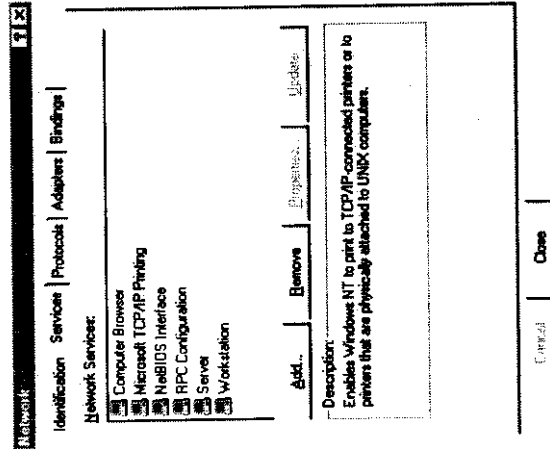
3. Select "TCP/IP protocol" and click on "OK".



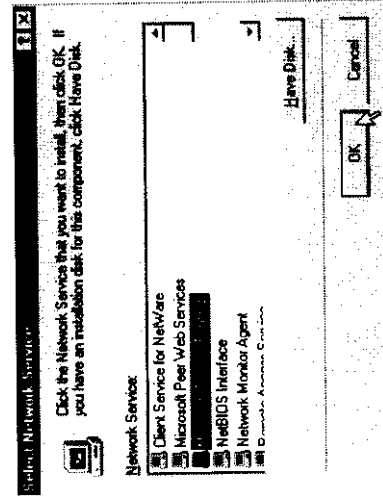
5. Configure each of the "IP address, Subnet Mask, Gateway, DNS Settings".



6. Open the "Service" tab and confirm that "Microsoft TCP/IP printing" is displayed.



7. Select the "Microsoft TCP/IP printing" and click on "OK".



8. Restart WindowsNT 4.0.

Configuring the IP address for the EtherNet Board

Use the Standard Setup Utility (Window) attached to the EtherNet Board and configure the IP address of the EtherNet Board, the subnet mask and the gateway.

For the details of the Standard Setup Utility, refer to “Chapter 7 EtherNet Board Management”.

Please have ready the “EtherNet Board’s companion CD-ROM”.

Note *If you type in the wrong IP address, subnet mask or gateway, the network may go down or other severe damage may occur. Make sure to check with the network manager and to determine the appropriate address.*

1. Connect the EtherNet Board to the network and turn ON the printer’s power switch.
2. Configure the computer to the “EtherNet Board’s companion Network Software CD-ROM”.

The Setup Utility starts automatically.

Note *If the Setup Utility does not start automatically, double-click on “Autorun.exe” in the “Windows” folder of the CD-ROM.*

3. Click on “English”.

The “Setup Utility” screen is displayed.

4. Click on “OKI Device Standard Setup”.
5. Select “Without installing, start directly from the CD-ROM” and click on “Next”.

6. If you agree to the User License Agreement, click on “Yes”. Starts the “AdminManager”.

7. Look up the EtherNet address in the list and select the EtherNet Board performing the settings.

The screenshot shows the AdminManager application window. The top menu bar includes 'File', 'Status', 'Setup', 'Option', and 'Help'. Below the menu is a toolbar with icons for search, refresh, and other functions. The main window is divided into two panes. The left pane, titled 'IOKI Devices are found in the network.', contains a table with columns 'Model', 'Ethernet Address', 'IP Address', and 'Machine Name'. The right pane displays the configuration for the selected device, 'OKI PAGE 8C COLOR PAGE PRINTER'.

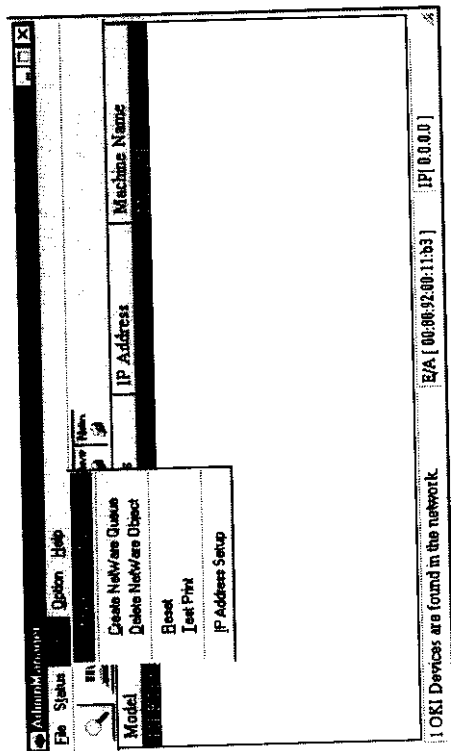
Model	Ethernet Address	IP Address	Machine Name
OKI PAGE 8C	00:80:92:00:11:b3	10.0.0.0	

**OKI PAGE 8C
COLOR PAGE PRINTER**

MERTICS Version: 1.0.0
 TCP/IP status
 IP address: 10.0.0.0
 Subnet Mask: 0.0.0.0
 Gateway addr: 0.0.0.0
 NetWare status: Failed
 EtherTalk status: A
 Zone Name: LaserWriter
 Type Name: MII10002
 Object Name: MII10002
 NetBEUI status: Computer Name: MII10002
 Workgroup Name: IPRINTSERVER
 Master Browser: MII10002
MAC Address: 00:80:92:00:11:b3

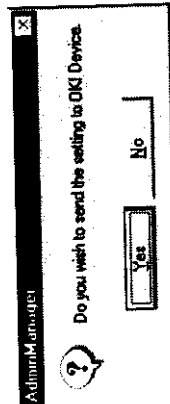
MEMO
The EtherNet address (MAC address) appears in the “print menu” of the printer.

8. Choose the "OKI Device Settings" in the "Setup" menu.

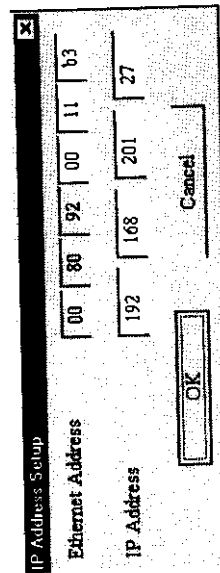


<In case that TCP/IP protocol is the only working protocol>

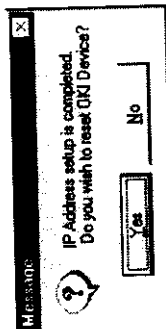
- (1) When the next message is displayed, click on "Yes".



- (2) Type in the EtherNet address and the "IP address" which configured it, and click on "OK".

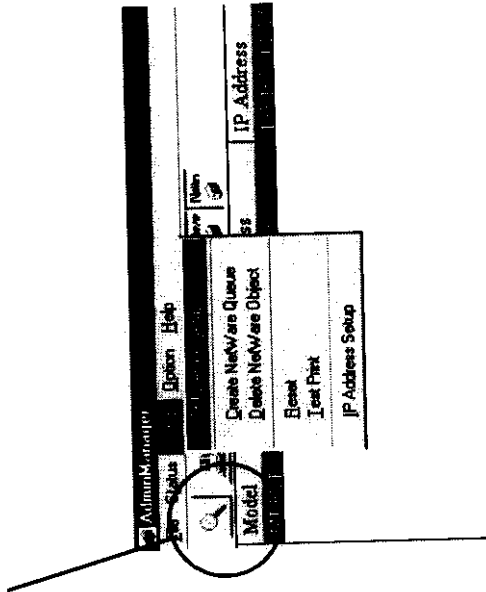


- (3) Click on "Yes" in order to validate the values set.

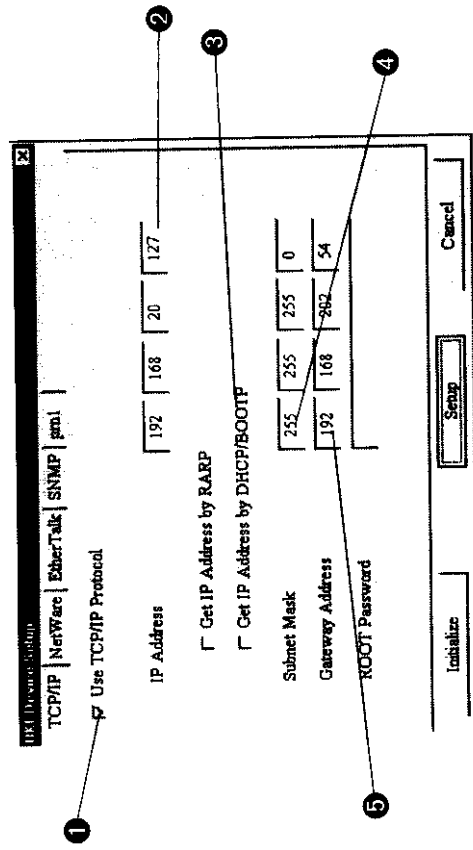


- (4) After a while, the EtherNet Board is displayed in the list. Select the EtherNet Board displayed and choose the "OKI Device Settings".

If the EtherNet Board is not displayed, click on the "OKI Device search" button.



9. Configure the TCP/IP Tab item and click on "Settings".



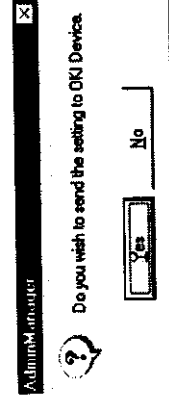
- 1 Check the "Use the TCP/IP protocol".
- 2 Type in the "IP address".
- 3 Uncheck the "Use RAPP" and "Use DHCP/BOOTP".

Note: *In the case that the IP address is obtained from the RARP server, DHCP server or BOOTP server, check in accordance with the network environment. In the case that no server exists, you must uncheck or severe damage may be caused to the network*

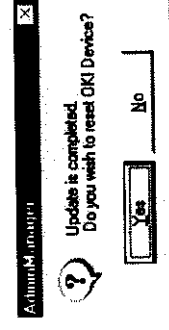
- 4 Type in the "Subnet mask".
- 5 Type in the "Gateway address".

10. If the settings are all correct, click on "Yes". The values set are transmitted to the EtherNet Board.

Note: *At this point, however, the EtherNet Board operates on the pre-transmission values set.*



11. In order to validate the values set, click on "Yes".



12. Select "Exit" in the "File" menu and close the AdminManager. Next, click on "Exit" in the Setup Utility to quit the Setup Utility. Utility to exit the Setup Utility.

Setting up the Printer Driver

Set up the Printer Driver for Windows NT4.0. The following procedure uses an OKIPAGE 8c(PS) as an example. The IBM PC/AT compatible PC running WindowsNT Server has the CD-ROM as drive D:

To complete these changes you will also need the "Printer Software CD-ROM".

Note! *This set-up requires you login as administrator.*

- 1 Select [Run...] form the [Start] menu.
Input [D:\SETUP] in [Open] and then click [OK].

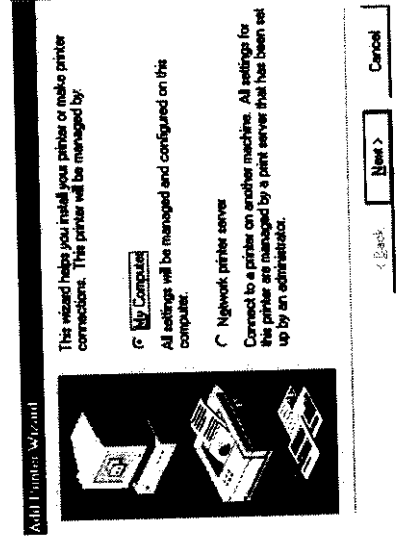
The set-up program will start. Now continue with the Set-up process by following the on-screen instructions.

Note! *The set-up procedure varies depending on the printer you use. See the User's Manual supplied with the printer for details.*

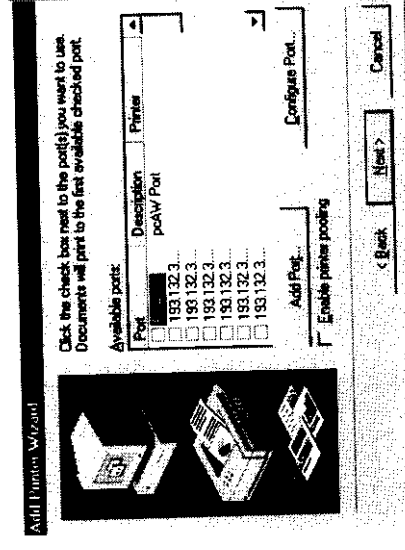
English

- 2 [Printer Add Wizard] will be displayed. Tick [This computer] and click [Next].

Note! *Be sure to select [My Computer].*



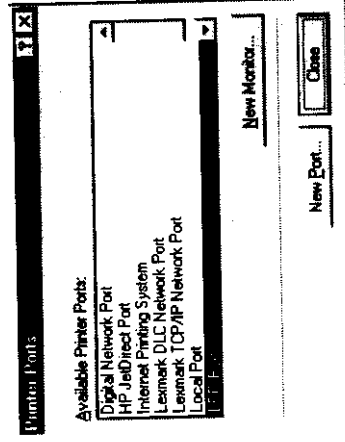
- 3 Click [Add Port].



- 4 Select [LPR Port] and click [New Port].

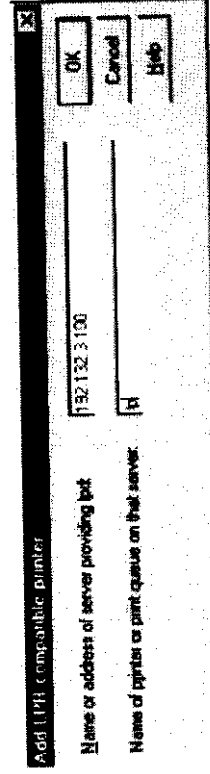
Note

- Do not select any port other than [LPR Port].
- [Apple Talk Printing Device] is available only for PostScript. It cannot be used for any other than a PostScript driver.



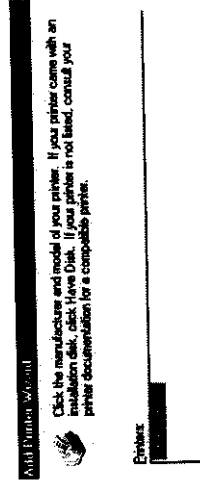
- 5 Enter [Printer IP Address] and [Printer Queue Name].

Enter [Ip] for the printer queue name. With any other name, printing will not be carried out properly.



Click [OK] and [Close] to return to the Printer Wizard window, then click [Next].

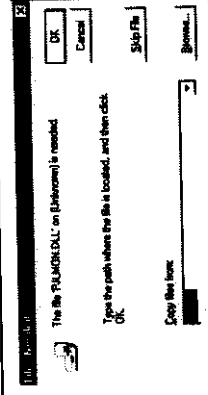
- 6 Select a printer model.



- 7 Follow the on-screen instructions to proceed with the set-up.
Your PC will start copying files.

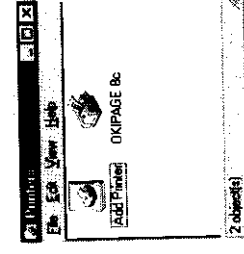
- 8 If the Windows NT system CD-ROM is required, insert the CD-ROM, enter [D:\i386] for [Copy Source] and click [OK].

Note The copy source varies from computer to computer.



A printer icon will appear in the [Printer] folder when you have completed the set-up.

Print from the added printer via application software.



With the NetBEUI protocol

Setting the WindowsNT 4.0

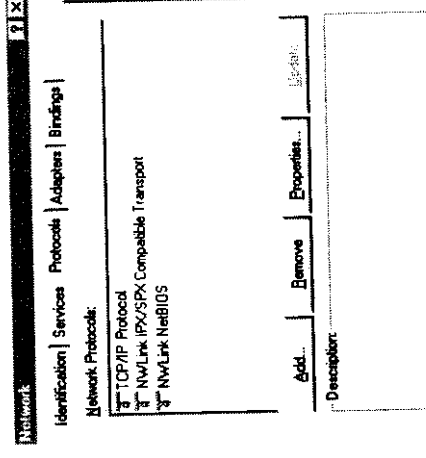
Adds the "NetBEUI protocol" to WindowsNT 4.0.

Note If WindowsNT 4.0 is set, login must be done with the Administrator's authorization.

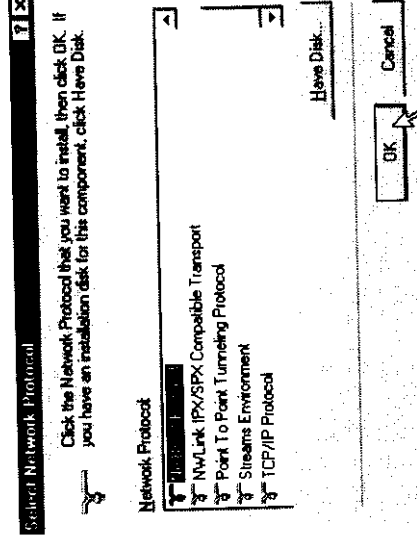
In the following explanation, WindowsNT Server 4.0 is used as an example. The screen display and part of the contents of the selected branch may differ, depending on the OS version and the system structure.

Please have ready the "WindowsNT 4.0 System Software CD-ROM".

1. Start the "Network" control panel.
2. Open the "Protocol" tab and confirm that "NetBEUI protocol" is displayed.
If "NetBEUI protocol" is not displayed, click on "Add".



3. Select "NetBEUI protocol" and click on "OK".



4. Restart WindowsNT 4.0.

Setting up the printer driver

Next, set up the printer software. After adding the printer driver in WindowsNT 4.0 as the "Default local printer", perform the setup.

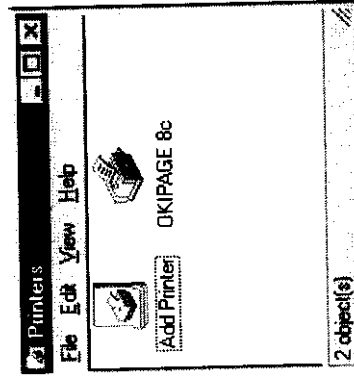
In the following explanation, setting up OKIPAGE 8c(PS) as the printer in WindowsNT Server 4.0 is used as an example.

Please have ready the "Printer software CD-ROM".

Note Please login with the Administrator's authorization and then conduct the setup.

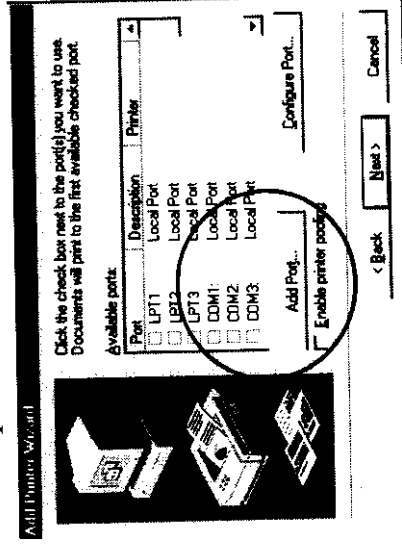
1. Set up the printer driver as the "Default local printer".

Please refer to the your printer's user manual for instructions on how to set up your printer driver.



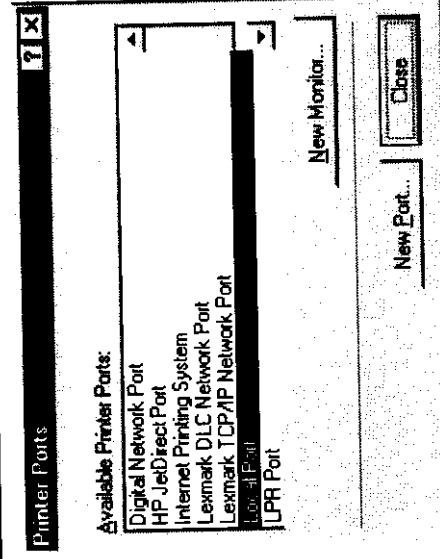
2. Open the Properties "Port" of the printer driver.

3. Click on "Add port".



4. Select the "Local Port" and click on "New port".

Note Do not select any port other than the "Local Port".



5. Type in “\\MLxxxxxx\PRN1” in the “Type in the port name” and click on “OK”.

Port Name

Enter a port name:

\\ML0100D2\PRN1

OK

Cancel

OKIPAGE 8C
COLOR PAGE PRINTER

MLET808 Version 1.0.0

TCP/IP status

IP address : 0.0.0.0

Subnet Mask : 0.0.0.0

Gateway addr : 0.0.0.0

NetWare status : RSERVER

EtherTalk status

Zone Name :

Type Name : LaserWriter

Object Name : ML0100D2

NetBUI status

Computer Name : **ML0100D2**

Workgroup Name : PrintServer

Master Browser : ML0100D2

MAC Address : 00:80:92:01:00:D2

MEMO

“MLxxxxxx” is the
“Computer Name”
displayed in the “print
menu” of the printer.

This completes the printer driver setup.
Printing may now be done from the application software.

Note

- The “Computer name” name and “Workgroup” name can be changed using a Web Browser, Telnet, etc.
- The Master Browser function manages the machine information which exists within the same Workgroup, and replies to summary requests from other Workgroups.
- The Master Browser function of this EtherNet Board operates only if the Workgroup name is “PrintServer”.
- The Master Browser function cannot manage anything other than this EtherNet Board. If the “PrintServer” name is put into another Workgroup, the EtherNet Board will not be able to find it in the network.
- A maximum of 8 EtherNet

Chapter

4

Using with the Macintosh

Configuring Macintosh	50
Installing the Printer Driver	51

Printing From Macintosh

In order to print from Macintosh via an EtherTalk network, it is necessary to set up the Ethernet board and the Macintosh.

Note *To print from Macintosh, you need to have a PostScript printer. If your printer does not include PostScript, you cannot use it.*

Confirming the configuration of your printer

If you use an EtherTalk network from Macintosh, it is not necessary to change the Ethernet board settings.

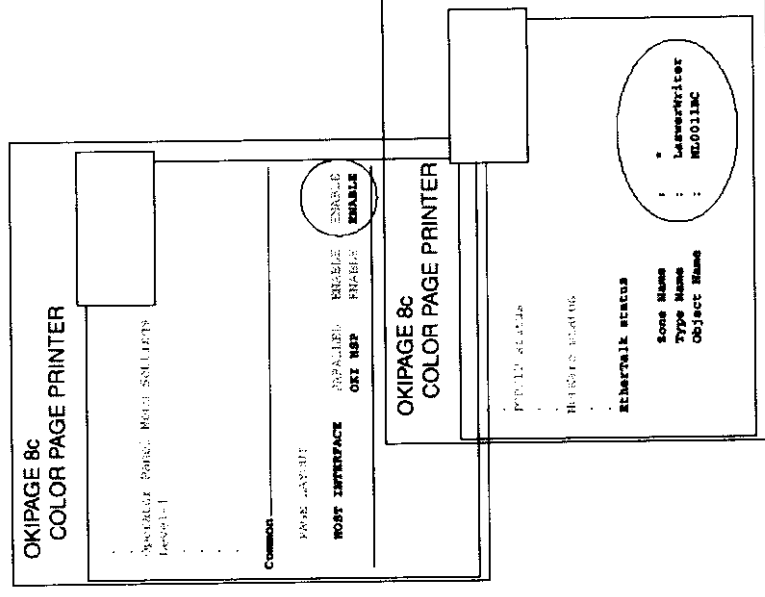
- The menu printing procedure varies depending on the printer you use. See the User's Manual supplied with your printer for details.
- For printers whose settings cannot be checked using menu print, see "Checking the Configuration" under "Printing a Test Page" in Chapter 1.

The following description uses OKIPAGE 8c as an example. Print the menu of your printer to confirm the current settings.

- 1 Press **ON-LINE** to place the printer "Off-line".
- 2 Hold down **Print Menu** for 2 seconds or more to select "Print Menu". Menu printing starts.
- 3 After the completion of menu printing, press **ON-LINE** to place the printer on-line.

User Manual

<Example of Menu Print>



Check that the settings (in bold) are correct.

Note

- If "OKIHSP" of "HOST INTERFACE" in "Common" is set at "DISABLE", switch "OKI HSP" of "HOST INTERFACE" in Level 1 Menu to "ENABLE", referring to the User's Manual of the printer.
- "Zone Name" and "Object Name" in "EtherTalk status" vary depending on the user environment.

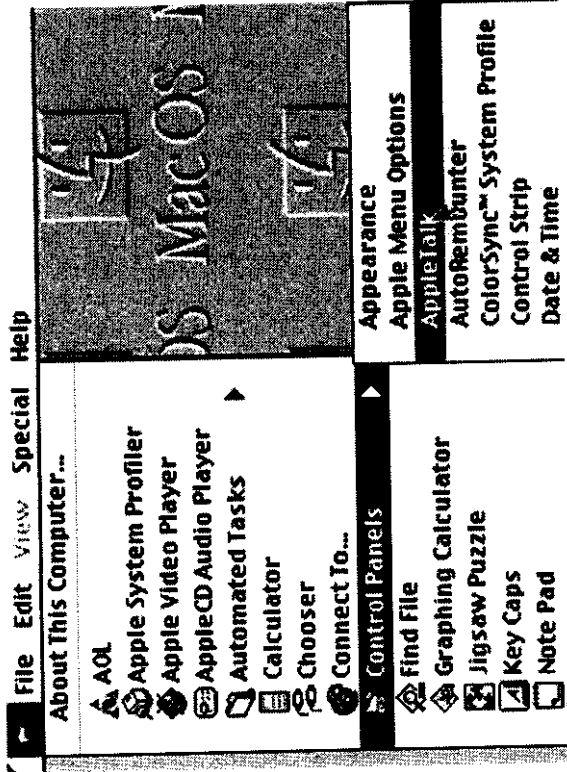
Configuring Macintosh

Change the route for Macintosh AppleTalk to Ethernet.

The following example uses MacOS8.5. The screen shots and options may vary depending on the OS version and system configuration.

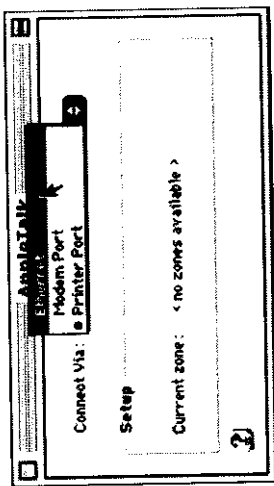
- 1 Select [AppleTalk] in [Control Panels] in the Apple menu.

Some OS versions have [Network] instead of [AppleTalk].



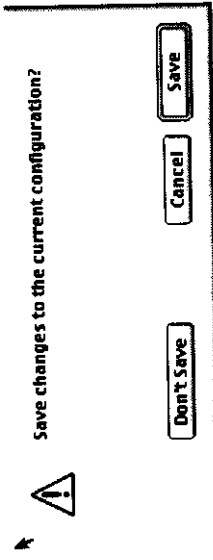
- 2 Select [Ethernet], then close [AppleTalk].

[Note] For [Network], select [EtherTalk]. Ask your network administrator about the zone and the AppleTalk address.



- 3 When the dialogue is displayed, click [Save].

The message varies according to the details of your modifications.



[Note] If the AppleTalk settings on the control panels are switched to [Ethernet], you will not be able to connect to any other printers and Macintoshes on LocalTalk. To connect to LocalTalk, change the [AppleTalk] settings back to [Printer Port].

Installing the Printer Driver

Install the printer driver onto the Macintosh. See the User's Manual of your printer for details.

Note

- *EtherTalk is divided into several zones. If you want to change your printer to another zone, use "Setup Utility (Macintosh)". See "Using Setup Utility (Macintosh)" in Chapter 7 for details.*
- *Use "Setup Utility (Macintosh)" to change your printer name.*

Chapter

5

Using with UNIX

Configuring the IP address in the EtherNet Board	53
Configuring the SunOS 4.x.x	56
Configuring the Sun Solaris 2.x	58
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BSD-based UNIX	65
System V-based UNIX	66
Printing with FTP	67

Using with UNIX

In order to print from a UNIX workstation using the TCP/IP network, the necessary EtherNet Board and UNIX workstations settings must be set.

Configuring the IP address in the EtherNet Board

Set the EtherNet Board IP address, subnet mask and gateway address using the TCP/IP software installed on the UNIX workstation.

Note

- *If the settings of the EtherNet Board are changed, the user name has to be logged in as “root”. The initial value of the “root” user password is “No”.*
- *If you type in a wrong IP address, subnet mask or gateway, the network may go down or other severe damage may occur. Please set the configuration only after consulting your network manager.*

In the following explanation, Sun Solaris2.4 is used as an example. The method of configuring each command etc. may differ from one workstation to another. Please refer to the manual of the UNIX workstation used.

1. Log in as root on the workstation.

Note *If it is not possible to log in with super-user authorization, leave the configuration to the network manager.*

2. Using the APR command, set a temporary IP address on the EtherNet Board.

Example: In the case that the IP address is "192.168.20.127", the EtherNet Board address is "00:80:92:01:00:D2"

arp -s 192.168.20.127 00:80:92:01:00:D2 temp



The EtherNet address (MAC Address) is displayed in the print menu of the printer.

OKI PAGE 8C
COLOR PAGE PRINTER

ETHERS Version 1.0.0
TCP/IP status
IP address 0.0.0.0
Subnet Mask 0.0.0.0
Gateway addr 0.0.0.0
Software status Failed
Ethernet mode Failed
Ethernet status
Zone Name
Type Name
Client Name ML0100D2
Ethernet status
Computers Name ML0100D2
Workgroup Name PrintServer
Master Browser ML0100D2
00:80:92:01:00:D2
MAC Address

- 3 Use the ping command to confirm the connection with the EtherNet Board.

Example: If the IP address is "192.168.20.127", [type]

#ping 192.168.20.127

Note *If there is no reply, then there is a problem with the configuration of the Procedure 2 IP address or with the condition of the network. Please consult your network manager.*

4 Log in the EtherNet Board using TELNET.

Example: Logging in the EtherNet Board in the case that the IP address is "192.168.20.127"

```
telnet 192.168.20.127
Trying 192.168.20.127
Connected to 192.168.20.127
Escape character is '^]'.
Ethernet Board 7100e Plus Ver 1.0.0. TELNET
server.
Copyright 1999 (c) Oki Data Corporation
Copyright 1999 (c) Japan Computer Industry
Inc.
login: root
'root' user needs password to login.
password:
User 'root' logged in.
```

No.	Message	Value	(level .1)
1	: Setup TCP/IP		
2	: Setup SNMP		
3	: Setup NetWare		
4	: Setup EtherTalk		
5	: Setup NetBEUI		
6	: Setup printer port		
7	: Display Status		
8	: Setup printer trap		
96	: Reset to factory set		
97	: Reboot		
98	: Quit setup		
99	: Exit setup		
	Please select (1-99)?		

5. Type in "1" and press the Enter key. Carry out the following settings.

Please select (1-99)? 1

No.	Message	Value
1	:TCP/IP protocol	: ENABLE
2	:IP address	: 192.168.20.127
3	:Subnet Mask	: 255.255.255.0
4	:Gateway address	: 192.168.20.254
5	:RARP protocol	: DISABLE
6	:DHCP/BOOTP protocol	: DIDABLE
7	:root password	: "
99	:Back to prior menu	
	Please select (1-99)?	

6. Login from the EtherNet Board.

In order to enable new settings, turn the printer OFF/ON.

Note

If the printer is not turned OFF/ON, the EtherNet Board will continue to use the pre-transmission setting values. Please make sure to turn the printer OFF/ON.

Configuring the SunOS 4.x.x

Configuring to print from a SunOS 4.x.x BSD system UNIX.

Note! *If you type in a wrong IP address, subnet mask or gateway, the network may go down or other severe damage may occur. Please set the configuration only after consulting your network manager.*

In the following explanation, OKIPAGE 8c as the printer and SunOS4.1.3 are used as an example. The absolute path of the commands and the method of configuring may differ, depending on the OS version. Please refer to your workstation's manual.

Method of configuring

1. Log in as the root on the workstation.

Note! *In the case that there is no super user authorization, leave the configuration to the network manager.*

2. Register the IP address of the EtherNet Board and the host name in the /etc/hosts file.

Example: In the case that the IP address is "192.168.20.127" and the host name is "ML8c"

192.168.20.127 ML8c

3. Use the ping command to confirm a connection with the EtherNet Board.

Example: In the case that the host name is "ML8c"

#ping ML8c

Note! *In the case that there is no reply, there is a problem with the registration of the Procedure 2 IP address and the host name, or with the condition of the network. Please consult your network manager.*

4. Register the printer in the /etc/printcap file.

Example: In the case that the printer name “ML8c_lp” is registered in the direct output port (lp)

```

① ML8c_lp:\
② :lp=:rm=ML8c:rp=lp:\
③ :sd=/usr/spool/ML8c_lp:\
④ lf=/usr/spool/ML8c_lp/ML8c_lp_errs:

```

<The meaning of each argument>

- ① Indicates the name of the printer.
- ② lp : The name of the device connecting the printer
Does not have to be indicated.
- rm: The name of the host of the remote printer.

Type in the name of the host which was registered in the /etc/hosts file in Procedure 2.

rp : The name of the printer of the remote printer
Select either lp, sjis or euc in the logical printer name of the EtherNet Board.

(Please refer to Page 53 for the logical printer name)

- ③ sd: Spool Directory indicate in the absolute path.
- ④ lf : Error Log File indicate in the absolute path.

5. Create the Spool Directory and Error Log File that were registered in the /etc/printcap file in Procedure 4.

Example: To create a Spool Directory “ML8c_lp” and Error Log File “ML8c_lp_errs”

```

# mkdir /usr/spool/ML8c_lp          ← Spool Directory creation
# touch /usr/spool/ML8c_lp/ML8c_lp_errs ← Error Log File creation
# chown -R daemon /usr/spool/ML8c_lp ← Changes the owner to daemon
# chgrp -R daemon /usr/spool/ML8c_lp ← Changes the group to daemon

```

- 6 Examine if the lpd (printer daemon) is activated or not.

```
# ps aux | grep lpd
```

If lpd is not operating, please perform the following command [while logged in] as the super-user.

```
# /usr/lib/lpd&
```

Configuring the Sun Solaris 2.x

Configuring in order to print from a Solaris2.x of Sun Microsystems.

Note!

The remote printer is usually registered on OpenWindows using Admintool, but the method of registering using Admintool cannot be used in this case because the output [unknown term] and the queue title are identical. In order to register the remote printer, please do the following.

If Solaris2.x is connected with the remote printer for a long period according to the system specifications, errors appear and forced disconnections may occur. Therefore, if paper tearing, offline and other errors produce a waiting time during printing, printing may have to be aborted.

If you type in a wrong IP address, the network may go down or other severe damage may occur. Please set the configuration only after consulting your network manager.

The following explanation relates to an example in which [the EtherNet Board is configured to work with] OKIPAGE 8c(PS) as the printer under Sun Solaris2.4. The absolute path and method of configuring the command may differ from one OS version to another. Please refer to your workstation's manual.

Method of configuring

1. Log in as root on the workstation.

Note!

In the case that there is no super user authorization, leave the configuration to your network manager.

2. Register the IP address of the EtherNet Board and the host name in the /etc/hosts file.

Example: In the case that the IP address is "192.168.20.127" and the host name is "ML8c"

192.168.20.127 ML8c

- 3 Use the ping command to confirm the connection with the EtherNet Board.

Example: In the case that the host name is "ML8c"

ping ML8c

Note!

In the event that there is no reply, there is a problem with the configuration of the IP address of the EtherNet Board, with the registration of the IP address and host name from Procedure 2 or with the condition of the network. Please consult your network manager.

4. Register the host which was registered in Procedure 2 as the printer server.

Example: If “ML8c” is registered as the printer server

1. *Stop the print scheduler*

```
# /usr/sbin/lpshut
```

2. *Register the print server*

```
# /usr/sbin/lpsystem -t bsd ML8c
```

5. Set and enable the print queue.

Example: To set the direct output port “lp” with the print queue “ML8c_lp” and the host “ML8c”,

1. *Create the print queue*

```
#/usr/sbin/lpadmin -p ML8c_lp -s ML8c!lp -I any
```

If you are using csh, type in “\!” or “\F” instead of “!”.

2. *Start the print scheduler*

```
#/usr/bin/sh /etc/init.d/lp start
```

3. *Activate the print queue*

```
#/usr/sbin/accept ML8c_lp
```

4. *Validate the print queue*

```
#/usr/bin/enable ML8c_lp
```


Configuring the HP-UX9.x

Configuring in order to print from the HP-UX of Hewlett-Packard.

Note *If you type in a wrong IP address, subnet mask or gateway, the network may go down or other severe damage may occur. Please set the configuration only after consulting your network manager.*

The following explanation relates to an example in which [the EtherNet Board is configured to work with] OKIPAGE 8c(PS) as the printer under HP-UX9.03. The absolute path of the commands and the method of configuring may differ, depending on the OS version. Please refer to your workstation's manual.

Method of configuring

1. Log in as the root on the workstation.

Note *In the case that there is no super user authorization, leave the configuration to the network manager.*

2. The IP address of the EtherNet Board and the host name are registered in the /etc/hosts file.

Example: In the case that the IP address is "192.168.20.127" and the host name is "ML8c"

192.168.20.127 ML8c

3. Use the ping command to confirm a connection with the EtherNet Board.

Example: In the case that the host name is "ML8c"

ping ML8c

Note *In the case that there is no reply, there is a problem with the registration of the Procedure 2 IP address and the host name, or with the condition of the network. Please consult your network manager.*

4. When no remote spool is set in the HP-UX machine used, set the following configuration.

1. Stop the printer spooler

#/usr/lib/lpshut

2. Add the following line to the /etc/inetd/conf file and register the remote spooler

Printer stream tcp nowait root /user/lip/rlpdaemon -l

3. Restart inetd

#/etc/inetd -c

5. Register the remote printer

Example: To set the direct output port “lp” with the print queue “ML8c_lp” and the host “ML8c”

1. Register the remote printer

**#/usr/lib/lpadmin -pML8c_lp -mrmmodel -ormML8c
-orplp -ocmrcmodel -osmrsmmodel -ob3 -v/dev/
null**

2. Activate the print queue

#/usr/lib/accept ML8c_lp

3. Validate the print queue

#/usr/bin/enable ML8c_lp

4. Enable the printer spooler

#/usr/lib/lpsched

Configuring the AIX4.1.5

Configuring in order to print from the AIX of IBM.

Note *If you type in a wrong IP address, the network may go down or other severe damage may occur. Please set the configuration only after consulting your network manager.*

The following explanation relates to an example in which [the EtherNet Board is configured to work with] OKIPAGE 8c(PS) as the printer under HP-UX9.03. The absolute path of the commands and the method of configuring may differ, depending on the OS version. Please refer to your workstation's manual.

Method of configuring

1. Log in as the root on the workstation.

Note *In the case that there is no super user authorization, leave the configuration to the network manager.*

2. Register the IP address of the EtherNet Board and the host name in the /etc/hosts file.

Example: In the case that the IP address is "192.168.20.127" and the host name is "ML8c"

192.168.20.127 ML8c

3. Use the ping command to confirm a connection with the EtherNet Board.

Example: If the host name is "ML8c"

ping ML8c

Note *In the event that there is no reply, there is a problem with the registration of the Procedure 2 IP address and the host name, or with the condition of the network. Please consult your network manager.*

4. Register the host which was registered in Procedure 2 as the print server.

Example: In the case that "ML8c" is registered as the print server

1. *Add the print server*
ruser -a -p ML8c
2. *Activate the remote printer daemon*
startsrc -s lpd
mkitab 'lpd:2:once:startsrc -s lpd'

5. Add the print queue using the smit command

1. *Activate the smit command and convert to the item "Add print queue"*

smit mkrque

2. Select "remote" (the printer connected to the remote host) from "Type of connection".
3. Select "Standard procedure" from "Type of remote print".
4. Set the following items in "Add a standard remote print queue" (change configuration other than those indicated below according to the utilization environment)

Example: To set the direct output port "lp" with the print queue "ML8c_lp" and the print server "ML8c"

Adding queue	"ML8c_lp"
Host name of the remote server	"ML8c"
Queue name of the remote server	"lp"
Type of print spooler of the remote server	"BSD"
Description of printer name of the remote server	"Optional comment"

Printing with LPD

The method of printing using the TCP/IP LPD protocol (lpr, lp commands) will now be explained. Please refer to your workstation's manual for the details of the lpr and lp commands. In the following explanation, printing of a print file "test.prm" using the printer name "ML8c_lp" is used as an example.

Regarding LPD

LPD (Line Printer Daemon) is a protocol used for printing using a printer on a network.

Regarding the logical printer

The EtherNet Board includes three logical printers.

In order to print a file created using the printer driver, an "lp" logical printer must be used for printing.

In order to print a text file of the Shift JIS Kanji code, an "sjis" logical printer must be used for printing.

In order to print a text file of the EUC Kanji code, an "euc" logical printer must be used for the printing.

Logic	Printer function
lp	For direct output
sjis	For Shift JIS Kanji converted output
euc	For EUC Kanji converted output

Note!

*"sjis" and "euc" function only as postscript printers.
They cannot be used with other printers.*

Printing

Print using the “lpr” command.

```
# lpr -PML8c_lp test.prn
```

Canceling the printing requirement

If the “lprm” command is used, the printing job is cancelled.

Example: In the case of a print job to “ML8c_lp”, deletion of 123.

```
# lprm -PML8c_lp 123
```

Verification of the printer status

Verify the printer status using the “lpq” command.

Note!

- *In some cases the UNIX specifications may prevent accurate display.*
- *While the short format of lpq is a UNIX-interchangeable format, the long format is a format unique to the EtherNet Board, which shows the printer status.*

Example: For the short format

```
# lpq -PML8c_lp
```

Example: For the long format

```
# lpq -l -PML8c_lp
```

SystemV-based UNIX

Printing

Print using the “lp” command.

```
# lp -d PML8c_lp test.prn
```

Canceling the printing requirement

If the “cancel” command is used, the printing job is cancelled.

Example: In the case of a print job to “ML8c_lp”, deletion of 456.

```
# cancel PML8c_lp -456
```

Verification of the printer status

Verify the printer status using the “lpstat” command.

Note! *In some cases the Solaris2.x or UNIX specifications may prevent accurate display.*

```
# lpstat -pML8c_lp
```

Printing with FTP

Printing with the TCP/IP FTP protocol (ftp command) will now be explained. Please refer to your workstation's manual for the details of the ftp command. In the following explanation, printing of a print file "test.prn" using the printer name "ML8c_lp" is used as an example.

Regarding FTP

FTP (File Transfer Protocol) is a protocol used for transferring a file with TCP/IP. By transferring the print data, they can be printed using the logical directory for the EtherNet Board.

Regarding the logical printer

The EtherNet Board includes three logical printers.

In order to print a file created using the printer driver, use the "lp" logical printer for printing.

In order to print a text file of the Shift JIS Kanji code, use the "sjis" logical printer for printing.

In order to print a text file of the EUC Kanji code, use the "euc" logical printer for printing.

/	Root (printing not possible)
lp	For direct output
sjis	For Shift JIS Kanji converted output
euc	For EUC Kanji converted output



*"sjis" and "euc" function only as postscript printers.
They cannot be used with other printers.*

Printing

1. Logging in the EtherNet Board.

Note *When printing with ftp, even typed values such as “Name” and “Password” can be printed. If the “Name” is “root”, however, a “Password”, set in TELNET or the Utility (page 103), is required.*

2. Move to the transfer directory using the cd command.

Note *In the EtherNet Board the transfer directory has a hierarchical structure. Please make sure to move to the transfer directory. It is not possible to output the print data to the root directory.*

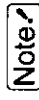
Example: Logging in the EtherNet Board with a host name “ML8c” (or an IP address “192.168.20.127”).

```
#ftp ML8c (or ftp 192.168.20.127)
Connected to ML8c
220 EtherNet Board 7100E+ Ver 1.0.0 FTP server
Name (ML8c:root) : root
331 Password required.
Password:
230 User Logged in
ftp>
```

Example: Moving to the lp directory and confirming the current directory.

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

3. Configure the transfer mode.



There are two types of transfer mode, the "BINARY mode" in which the file contents is output as it is and the "ASCII mode" which converts the LF code to the CR+LF code. If a binary file, converted by the printer driver, is transferred, the transfer mode has to be the "BINARY mode".

4. Using the put command, transfer the print data to the EtherNet Board.

There are two modes of file transfer using the put command.

Example: Transferring the print data "test.prm".

```
ftp> put test.prm
```

Example: Transferring the print data specified by an absolute path "/users/tes/test.prm".

```
ftp> put /users/test/test.prm /lp
```



If the print data is specified by an absolute path, specify the transfer logical directory. There is no need to switch directories with the cd command.

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

Example: Changing the transfer mode to the BINARY mode and verifying the current mode.

5. Log out from the EtherNet Board using the quit command.

```
ftp> quit
```

Verification of the printer status

Three states, i.e., the IP address, login user name and transfer mode, can be verified using the quote command “stat”.

In addition, by specifying the directory after the stat (lp, sjis, euc), the printer status can be verified.

Example: Displaying the EtherNet Board status.

```
ftp> quote stat
211-FTP server status:
Connected to: 192.9.200.82.128.30
User logged in: guest
Transfer type: BINARY
Data connection: Closed.
211 End of status.
ftp>
```

Example: Displaying the EtherNet Board status (directory name: lp)

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

Chapter

6

Using with NetWare

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Printing from NetWare

In order to print using a Novell Netware4.1 or NetWare3.1network environment, it is necessary to set up the NetWare server and the Ethernet board.

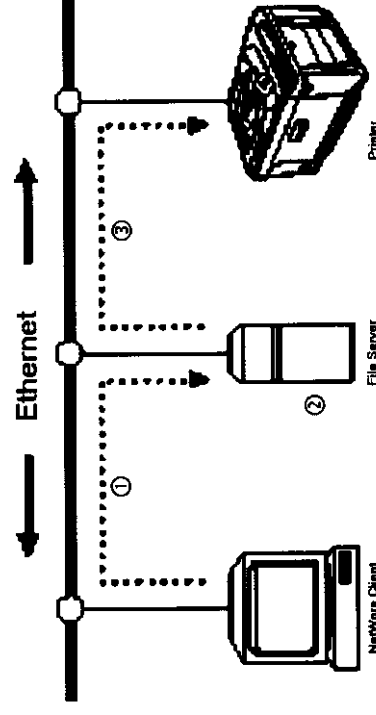
To make the configuration changes it is necessary to have file server administrator and supervisor authorization. This guide is intended for NetWare administrators with a basic knowledge of NetWare and its operating procedures. We suggest you read this in conjunction with the Novell NetWare manual.

About NetWare

You can print with the printer connected directly to a Novell NetWare network. For printing using NetWare4.1(NDS mode and bindery mode) or NetWare 3.1, the Ethernet board supports the following modes.

Print Server Mode

In print server mode: [1] a print job is stored in a print queue on the file server, [2] a printer running in print server mode will directly access the print queue and take the job, [3] the printing process is performed immediately. You do not need to have any other print server, whether on the file server or in the form of a workstation, because the printer acts as a print server.

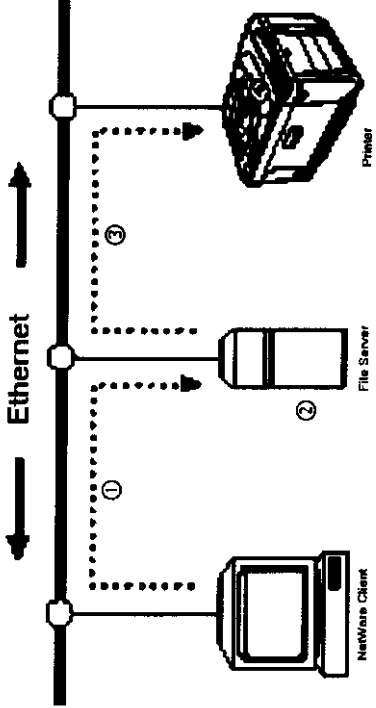


Remote Printer Mode

In remote printer mode: [1] a job is stored in a print queue on the file server, [2] the print server (either on the file server or a dedicated workstation) takes the job, and [3] transfers it to the printer allocated to the print queue. [4] The printer receives the job and the printing operation is performed. This mode uses the standard NetWare print function (PSERVER.NLM/EXE). The existing print server can be used.

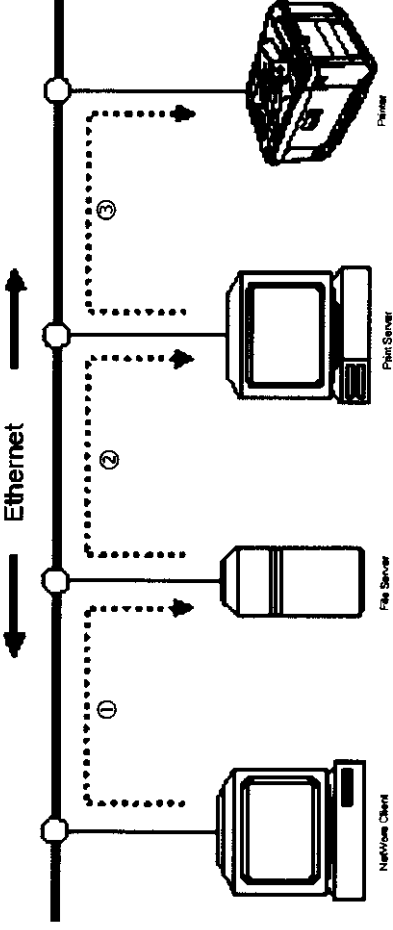
<For PSERVER.NLM>

The file server functions as a print server.



<For PSERVER.EXE>

A personal computer is used as a dedicated print server unit.



NetWare 4.1 Print Server Mode (NDS)

NetWare4.1 has an NDS network and a bindery network.

NDS Network

In order to use NetWare4.1 print server mode via the NDS network, it is necessary to set up the file server and Ethernet board.



See later in this chapter for:

- *using NetWare4.1 print server mode via the bindery network;*
- *using NetWare4.1 remote print server mode;*
- *using Netware3.1.*

The following example uses NetWare4. Some of the on-screen instructions and options may vary depending on the OS version and system configuration.

In this example, the Ethernet board is connected to the NetWare NDS tree “ODCSOFT”, the admin user context “ENG7”, the context “SOFT22.ENG7” for creating a print server, and the file server “SOFT22-NW44”.

Starting PCONSOLE through NDS

For the purpose of this example we will use F: as the network drive name for logging in to the NetWare server.

- 1 Go to the context where admin exists ([ENG7] in this example), using the CX command.
F: \>cx ENG7
- 2 Log in from the client to the file server ([SOFT22-NW4] in this example) using the admin authority.

After entering Login, input your password.

F: \>Login SOFT22-NW4/admin

- 3 Using the CX command, go to the directory in which a print server, a printer and a print queue is generated ([SOFT22]).

F: \>cx SOFT22

- 4 Activate PCONSOLE.

F: \>pconsole

[Available Options] is displayed.

Available Options
Print Queues
Printers
Print Servers
Quick Setup
Change context

Generating Print Server, Printer and Print Queue

- 1 Select [Quick Setup] and then press the Enter key.

Available Options
Print Queues
Printers
Print Servers
Quick Setup
Change context

- 2 The print server name, printer name and print queue name are automatically generated. Change them as necessary. Input the print server name [8c-PSERVER], printer name [P1] and print queue name [Q1-PS].

[Note.] Set a banner type to suit the printer.

Print Service Quick Setup	
Print Server:	8C-PSERVER
New Printer:	P1
New Print Queue:	Q1-PS
Print Queue Volume:	SOFT22-NW4_SYS
Banner Type:	PostScript
Printer Type:	Parallel
Location:	Manual Load
Interruption:	Unavailable
	(Polling Mode)
Port:	LPT1

- 3 Press the ESC key until [Save changes?] is displayed, select [Yes], and press the Enter key.

Save changes?
No
Yes

Closing PCONSOLE

- 1 Press the ESC key until the display shows [Exit?], select [Yes] and press the Enter key.

Available Options
Exit?
No
Yes

- 2 Log out from the file server.

F: \>Logout

Configuring the Ethernet Board

This section explains how to use the Standard Setup Utility for Windows. You can also make these changes using the Setup Utility on a Macintosh or via TELNET. Read the following description and choose the appropriate utility for your network environment.

Note

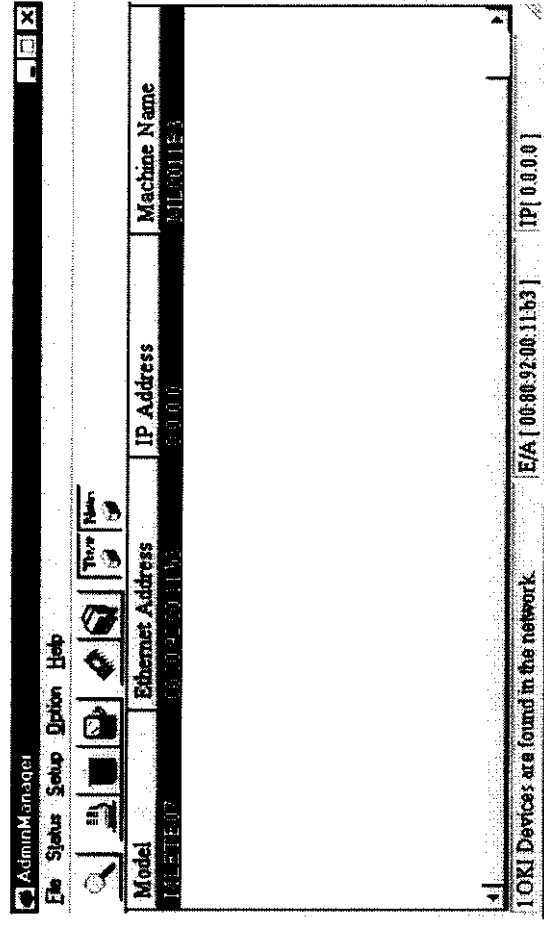
- Use the utility when the NetWare file server and the print server are running normally.
- Ensure that the printer is switched on as the Ethernet board cannot be configured when the printer is off.

This procedure assumes that the Standard Setup Utility has already been installed. For information on installing the utility, see "CHAPTER 7 Control of Ethernet Board".

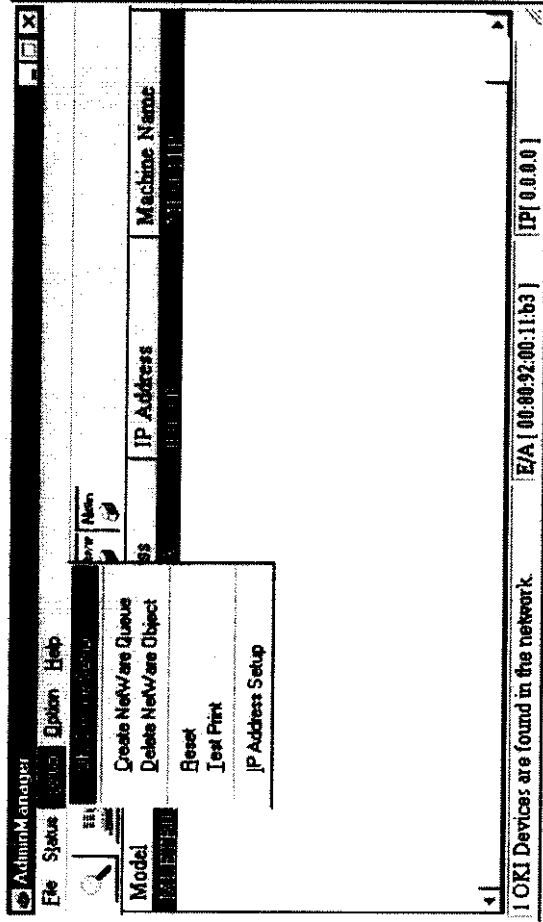
- 1 Select the Ethernet board to be configured from the list.

Note

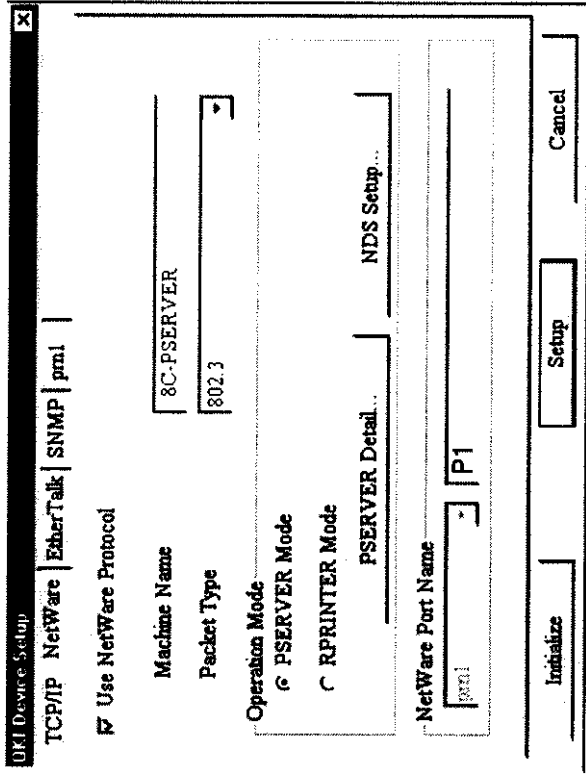
The Ethernet address is displayed on the Ethernet board self-diagnostics test. If there are many NetWare file servers, there may be cases where the list is not displayed. In that case, select [Environment Settings] in the [Options] menu and click the [NetWare] tab. Select [Specify network to be searched], enter the NetWare address where the Ethernet board exists, then click [Add]. If you click [Search for OKI Devices] in the [File] menu on the main screen, only the NetWare addresses you have specified will be searched.



- 2 Select [OKI Device Setup] in the [Setup] menu.



- 3 Click [NetWare] tab.



Input the print server name. This must match the “Print server name” you created earlier (*8C-PSERVER* in this example).

Match this to the network type you use (*802.3 in this example*).

Select “Print Server” (*PSERVER Mode*).

Input “Printer Name” (*P1* in this example). This must match the “Printer Name “ you created earlier.

- 5 Click [Print Server Details...] on the NetWare setup screen, enter the following items, and click [OK].

Detail for PSERVER

File Server name

1	SOFT22-NW4	5	
2		6	
3		7	
4		8	

Password _____

Job Polling Time 4 (Second)

OK **Cancel**

Input the "File Server Name" controlling the printer (*SOFT22-NW4* in this example). This must match "File Server" you logged in on earlier.

Set a password by which you log in to the file server. Enter this if you have set a password for the print server.

Specify the queue poll rate in seconds. 4 seconds should normally be used (default setting).

- 6 Click [NDS Settings] on the NetWare Setup screen, enter the following items, then click [OK].

NDS Mode Setup

☒ **Bindery Mode**

NDS Tree OELSOFT

NDS Context SOFT22.ENG7

OK **Cancel**

Determine whether or not to enable the bindery mode. When you print only with NetWare 4.1 NDS, uncheck this. Unchecking this means the device cannot be used from NetWare4.1 bindery or NetWare3.1.

Enter the tree name in which the file server exists.

This must match "Tree Name" where the file server to which you logged in exists.

Specify the context in which the file server has been generated. This must match "Context Name" where you generated the print server, printer and print queue.

7 After all the settings are completed, click [Setup] on the NetWare Setup screen.

8 If the settings are correct, click [Yes]. The settings will be transmitted to the Ethernet board.

At this point, however, the Ethernet board is still operated using the previous settings.

9 Click [Yes] to reset the device.

If you select [No], the settings will become valid when the printer is next power cycled. Depending on the printer model used, you may need to power cycle it.

10 If the print server name you set is displayed on the [NetWare 4.1 console monitor] of the file server, connection to the file server is completed.

If it does not appear, try again to set the file server and Ethernet board from the beginning.

“Information on Connection” screen from “Available Options”

```
<NetWare4.1 Console Monitor>
NetWare 4.10 Console Monitor 4.12
Directory Tree "ODCSOFT" Server Name: "SOFT22-NW4"
Server Version: NetWare4.10-1998 March 31
```

General Information

Server Operating Hours: 30:09:47:40

Status of Use: 0%

Active Connections

4 8C-PSERVER

1 SUPERVISOR

3 MIYAMOTO

NetWare 4.1 Print Server Mode (Bindery)

NetWare 4.1 has a NDS network and a bindery network.

Bindery Network

In order to use NetWare 4.1 print server mode with bindery, it is necessary to set up the file server and Ethernet board.

Note!

- *To use the bindery service, it is essential to specify the bindery context in the file server. Make the following settings from the server console in advance:*

For Bindery Context "OU=SOFT22.O=ENG7"
set Bindery Context = OU=SOFT22.O=ENG7

- *For using the NetWare4.1 print server mode via the NDS network, see "Starting PCONSOLE through NDS" earlier in this chapter.*
- *For the NetWare 4.1 remote printer mode, see "NetWare 4.1 remote printer mode" later in this chapter.*
- *For using NetWare 3.1, see NetWare 3.1 environment later in this chapter.*

The following description uses NetWare 4.1 as an example. Some of the screen shots and options may vary depending on the OS version and system configuration.

In this example, the Ethernet board is connected to the NetWare NDS tree "ODCSOFT", the admin user context "ENG7", the context "SOFT22.ENG7" for creating a print server, and the file server "SOFT22-NW4".

Starting PCONSOLE on Bindery

For the purpose of this example we will use F: as the network drive name for logging in to the NetWare server.

- 1 Log in to the file server from the client using the bindery mode supervisor.

Log in to the file server "SOFT22-NW4" here.

After entering Login, input your password.

F: \>LoginSOFT22-NW4/supervisor/B

- 2 Start PCONSOLE.

F: \> pconsole

[Available Options] is displayed.

Available Options
Print Queues
Print Servers
Quick Setup
Change NetWare Server

Creating a Print Queue

- 1 Select [Print Queues] and press the Enter key.

Available Options
Print Queues
Print Servers
Quick Setup
Change NetWare Server

- 2 Press the Ins key to input a print queue name to be newly created ("Q-8C" in this example), then press Enter.

Print Queues
Q-8C

New Print Queue Name: Q8c

A print queue "Q8c" is generated.

Registering Print Server

- 1 Choose [Print Servers] and press the Enter key.

Available Options
Print Queues
Print Servers
Quick Setup
Change NetWare Server

- 2 The following message is displayed on the screen. Press the Enter key to proceed.

You are using bindery emulation on a NetWare 4 server. A DS print server will not be able to access any configuration done here. If you intend to run a NetWare 4 print Server on a NetWare 4 Server, it should be created and configured in DS mode.
Press <Enter> to continue.

- 3 Press the Ins key and input a print server name to be newly generated ("8C-PSERVER" in this example), then press Enter.

New Print Server Name: 8C-PSERVER

The print server "8C-PSERVER" is registered.

Creating a printer controlled by the Printer Server

- 1 Select the print server you generated ("8C-PSERVER") and press the Enter key.

Print Servers
8C-PSERVER

- 2 Select [Printers] and press the Enter key.

Print Server Information
Printers
Information and Status
User
Operator
Service Network Server
Description
Password
Monitor

- 3 Press the Ins key to input the printer name to be created ("OP8C" in this example), then press the Enter key.

Printer Name: OP8C

"OP 8C" is created.

Allocating Print Queues to Printers

- 1 Select the printer you have created ("OP8C") and press the Enter key.

Pre-defined Printers	No.	Status
OP8C	0	[c]

- 2 Select [Banner Type], then press the Enter key.
- 3 Choose [Text] or [PostScript] and press the Enter key.

Available Banner Types
Text
PostScript

- 4 Select [Print Queue Allocation], then press the Enter key.
- 5 Press the Ins key, select the print queue you have created ("Q-8C") from [Available Print Queues], then press Enter.
- 6 Input a priority value of "1" for the print queue and press the Enter key.

NetWare Server\Print Queue	Priority	Status
SOFT22-NW4•Q-8C	1	[c]

The print queue is allocated.

- 7 Press the ESC key until [Save changes?] is displayed. Select [Yes], then press the Enter key.

Restarting PCONSOLE on NDS Mode

The following configuration is required in order to make the queue generated in bindery mode available to other context users in NDS mode.

If other NDS context users do not need to use the device then the following configuration is not required. Proceed to “Setting Ethernet board”.

- 1 Press the ESC key until [Exit?] is displayed on the screen, then select [Yes] and press Enter.
- 2 Log out from the file server.

F: \> Logout

- 3 Using the CX command, go to the directory where admin is to be found (“ENG7” in this example).

F: \> cx ENG7

- 4 Log in again to the file server (“SOFT22-NW4”) in NDS mode as admin.

After entering Login, input your password.

F: >\Login SOFT22-NW4/admin

- 5 Using the CX command, go to the directory you specified in the bindery context (“SOFT22”).

F: \>cx SOFT22

- 6 Start PCONSOLE

F: \>pconsole
[Available Options] is displayed.

Creating a Printer

- 1 Select [Printer] and press the Enter key.
- 2 Press the Ins key and input the printer name you created in bindery mode (“OP8C” in this example), then press the Enter key.

Printer: OP8C

“OP8C” is created.

Allocating Print Queue to Printer

- 1 Select the printer you created (“OP8C”) and press the Enter key.
- 2 Select [Banner Type] and then press the Enter key.
- 3 Select [Text] or [PostScript] and press the Enter key.
- 4 Select [Allocate Print Queue] and press the Enter key.
- 5 Press the Ins key, select the print queue you created in the bindery mode(“Q-8C” in this example) from the [Object, Class] and press the Enter key.

Object, Class	
....*	(Parent)
Q-8C	(Print Queue)

The print queue is allocated.

- 6 Press the ESC key until [Save changes?] appears on the screen, select [Yes], then press the Enter key.

Specifying Directory Users or Groups that can use the Print Queue

Closing PCONSOLE

- 1

Select [Print Queues] from [Available Options] and press the Enter key.
- 2

Press the ESC key until [Exit?] is displayed, then select [Yes] and press the Enter key.
- 2

Log out from the file server.

Available Options
Print Queues
Printers
Print Servers
Quick Setup
Change Context

F: \>Logout

- 2

Select the print queue you created in the bindery mode (“Q8C” in this example), then press the Enter key.
- 3

Select [User] from [Print Queue Information] and then press the Enter key.
- 4

On the [Print Queue User] screen, press the Ins key. Select a User or a Group from [Object, Class] and press the Enter key.

Object, Class
...
*
+NETWORK_G
+SOFT22
Admin
miyamoto

(Parent)
(Current Context)
(Group)
(Group)
(User)
(User)

The user or group is registered.

Configuring the Ethernet Board

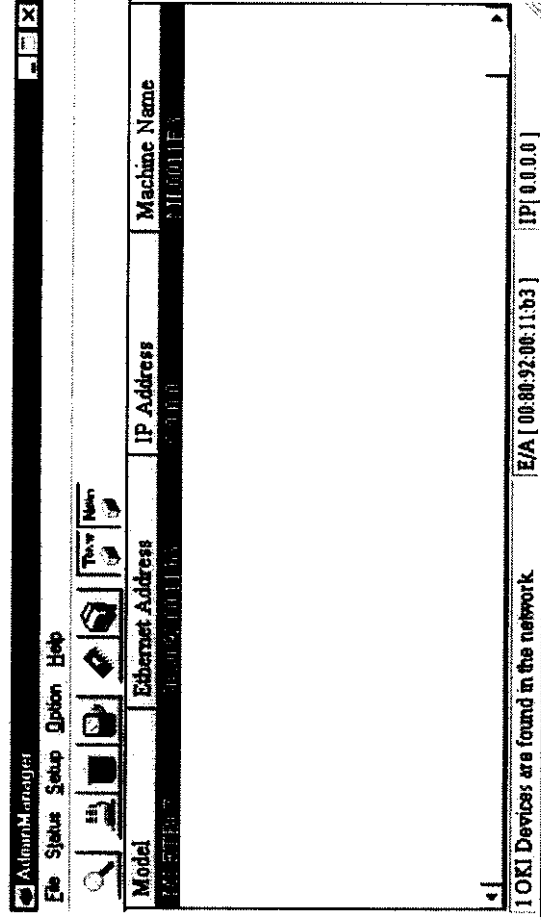
This section explains how to use the Standard Setup Utility for Windows. You can also make these changes using the Setup Utility on a Macintosh or via TELNET. Read the following description and choose the appropriate utility for your network environment.

Note

- *Use the utility when the NetWare file server and the print server are running normally.*
- *Ensure that the printer is switched on as the Ethernet board cannot be configured when the printer is off.*

This procedure assumes that the Standard Setup Utility has already been installed. For information on installing the utility, see “CHAPTER 7 Control of Ethernet Board”.

- 1 Select the Ethernet board to be configured from the list.



Note

The Ethernet address is displayed on the Ethernet board self-diagnostics test. If there are many NetWare file servers, there may be cases where the list is not displayed. In that case, select [Environment Settings] in the [Options] menu and click the [NetWare] tab. Select [Specify network to be searched], enter the NetWare address where the Ethernet board exists, then click [Add]. If you click [Search for OKI Devices] in the [File] menu on the main screen, only the NetWare addresses you have specified will be searched.

- 2 Select [OKI Device Settings] in the [Setup] menu.
- 3 Click [NetWare] tab.
- 4 Enter the following items on the NetWare setup screen.

The image shows the 'NetWare Setup' dialog box with the 'NetWare' tab selected. The 'Machine Name' is '8C-PSERVER' and the 'Packet Type' is '802.3'. Under 'Operation Mode', 'PSERVER Mode' is selected. The 'NetWare Port Name' is 'ipml' and the 'NetWare Port' is '0P8C'. At the bottom, there are 'Initialize', 'Setup', and 'Cancel' buttons.

Input the print server name (*8CPSERVER* in this example). This must match the “Print server name” you created earlier.

Select the network type you use (*802.3* in this example).

Select “Print Server” (*PSERVER Mode*).

Input “Printer Name” (*08PC* in this example). This must match the “Printer Name” you created earlier.

- 5 Click [Print Server Details...] on the NetWare setup screen, enter the following items, and click [OK].

The image shows the 'Print Server Details' dialog box. The 'File Server name' is 'SOFT22-NW4'. The 'Job Polling Time' is '4' seconds. There are 'OK' and 'Cancel' buttons at the bottom.

Input the “File Server Name” controlling the printer (*SOFT22-NW4* in this example). This must match “File Server” you logged in on earlier. Set a password by which you log in to the file server. Enter this if you have set a password for the print server.

Specify the queue poll rate in seconds. 4 seconds should normally be used (default setting).

- 6 Click [NDS Settings] on the NetWare Setup screen, enter the following items, then click [OK].

NetWare Setup

TCP/IP | NetWare | EtherTalk | SNMP | psm |

☒ Use NetWare Protocol

Machine Name: 3C-PSERVER

Packet Type: 802.3

Operation Mode:

- ☒ PSERVER Mode
- ☐ RPRINTER Mode

PSERVER Detail...: NDS Setup...

NetWare Port Name: OP8C

Initialize Setup Cancel

Determine whether or not to enable the bindery mode. When you print only with NetWare 4.1 NDS, uncheck this. Unchecking this means the device cannot be used from NetWare 4.1 bindery or NetWare 3.1.

Enter the tree name in which the file server exists (*ODCSOFT* in this example). This must match "Tree Name" where the file server to which you logged in exists.

Specify the context in which the file server has been generated (*SOFT22. ENG7* in this example). This must match "Context Name" where you generated the print server, printer and print queue earlier.

- 7 After all the settings are completed, click [Setup] on the NetWare Setup screen.
- 8 If the settings are correct, click [Yes]. The settings will be transmitted to the Ethernet board. At this point, however, the Ethernet board is still operated using the previous settings.
- 9 Click [Yes] to reset the device.

Note *If you select [No], the settings will become valid when the printer is next power cycled. Depending on the printer model used, you may need to power cycle it.*

- 10 If the print server name you set is displayed on the [NetWare 4.1 console monitor] of the file server, connection to the file server is completed.

If it does not appear, try again to set the file server and Ethernet board from the beginning.

```
<NetWare4.1 Console Monitor>
NetWare 4.10 Console Monitor 4.12
Directory Tree "ODCSOFT" Server Name: "SOFT22-NW4"
Server Version: NetWare4.10-1998 March 31

General Information
Server Operating Hours: 30:09:47:40
Status of Use: 0%
_____
_____

Active Connections
4 8C-PSERVER
1 SUPERVISOR
3 MIYAMOTO
```

“Information on Connection” screen from “Available Options”

NetWare 4.1 Remote Printer Mode

In order to use the NetWare 4.1 remote printer mode, it is necessary to set up the file server and the Ethernet board.



See other relevant topics in this chapter for:

- *printing on the NetWare 4.1 print server mode through via NDS network;*
- *printing on the NetWare 4.1 print server mode via the bindery network;*
- *using NetWare 3.1.*

The following description uses NetWare 4.1 as an example. Some of the on-screen indications or options may vary according to the OS version and system configuration.

In this example, the Ethernet board is connected to the NetWare NDS tree "ODCSOFT", the admin user context "ENG7", the context "SOFT22.ENG7" for creating a print server, and the file server "SOFT22NW4".

Starting PCONSOLE through NDS

For the purpose of this example we will use F: as the network drive name for logging in to the NetWare server.

- 1 On the client, go to the context where admin exists ("ENG7" in this example), using the CX command. After entering Login, input your password.

F: \>cx ENG7

- 2 Log in to the file server ("SOFT22-NW4" in this example) by using the admin authority. After entering log-in, input your password.

F: \>Login SOFT22-NW4/admin

- 3 Using the CX command, go to the directory where you generate the print server, printer and print queue ("SOFT22" in this example).

F: \>cx SOFT22

- 4 Start PCONSOLE.

F: \>pconsole

[Available Options] is displayed.

Generating Print Server, Printer and Print Queue

- 1 Select [Quick Setup] and press the Enter key.
- 2 The print server name, printer name and print queue name are generated automatically. Change them as required.
Input the print server name "8CPSERVER", printer name "P1" and print queue name "Q1-PS" in this example.

Note The banner type is generated according to the printer.

Print Service Quick Setup	
Print Server:	8C-PSERVER
New Printer:	P1
New Print Queue:	Q1-PS
Print Queue Volume:	SOFT22-NW4_SYS
Banner Type:	PostScript
Printer Type:	Parallel
Location:	Manual Load
Interruption:	Unavailable
Port:	(Polling Mode) LPT1

- 3 Press the ESC key until [Save changes?] is on the screen, then select [Yes] and press the Enter key.

Closing PCONSOLE

- 1 Press the ESC key until [Exit?] is displayed. Select [Yes], then press the Enter key.
- 2 Log out from the file server.

F: \>Logout

Starting the Print Server on File Server

- 1 Use the file server console to start the print server.

If the print server has already been running, check that no one is using it before restart it.

: LOAD PSERVER

- 2 On the [Input Print Server Name] screen, press the Enter key to select the print server name you generated (*previous page*) from [Details of current context] and then press the Enter key. In this example, select "8C-PSERVER" from context "SOFT22.ENG7".

Current Context
SOFT22.ENG7
Details of Current Context
.
..
8C-PSERVER

- 3 The print server is started.

Select [Printer Status] in [Available Options] and press the Enter key.

Available Options
Printer Status
Print Server Information

- 4 Choose the printer name you generated earlier ("P1.SOFT22.ENG7" in this example) is chosen from [Printer List]. Press the Enter key.

Printer Status is displayed. Here, the [Current Status] should be [Printer Not Connected].

Printer:FP1.SOFT22.ENG7 Type: F Manual Load (Remote), LPT1 Current Status: Printer Not Connected
--

Check the status of printer connection

Configuring the Ethernet Board

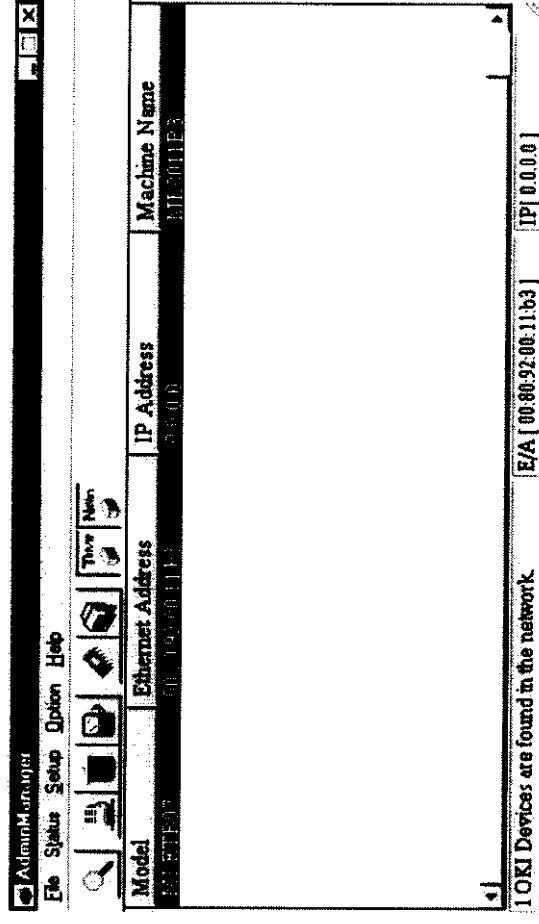
This section explains how to use the Standard Setup Utility for Windows. You can also make these changes using the Setup Utility on a Macintosh or via TELNET. Read the following description and choose the appropriate utility for your network environment.

Note

- *Use the utility when the NetWare file server and the print server are running normally.*
- *Ensure that the printer is switched on as the Ethernet board cannot be configured when the printer is off.*

This procedure assumes that the Standard Setup Utility has already been installed. For information on installing the utility, see “CHAPTER 7 Control of Ethernet Board”.

- 1 Select the Ethernet board to be configured from the list.



Note

The Ethernet address is displayed on the Ethernet board self-diagnostics test. If there are many NetWare file servers, there may be cases where the list is not displayed. In that case, select [Environment Settings] in the [Options] menu and click the [NetWare] tab. Select [Specify network to be searched], enter the NetWare address where the Ethernet board exists, then click [Add]. If you click [Search for OKI Devices] in the [File] menu on the main screen, only the NetWare addresses you have specified will be searched.

- 2 Select [OKI Device Settings] in the [Setup] menu.
- 3 Click [NetWare] tab.

- 4 Enter the following items on the NetWare setup screen.

OKI Device Setup

TCP/IP NetWare | EtherTalk | SNMP | pml

☒ Use NetWare Protocol

Machine Name KEIRI

Packet Type 802.3

Operation Mode
☒ PSERVER Mode
☐ RPRINTER Mode

RPRINTER Detail..

NetWare Port Name pml PI

Initialize Setup Cancel

- Input the print server name (*8CPSEVER* in this example). This must match the “Print server name” you created earlier
- Enter the network type you use (*802.3* in this example).
- Select “Print Server” (*PSEVER Mode*).
- Input “Printer Name” (*PI* in this example). This must match the “Printer Name “ you created on earlier.

- 5 Click [Remote Printer Details] on NetWare setting screen, enter the following items, then click [OK].

Detail for RPRINTER

Print Server name

1	8C-PSERVER	5
2		6
3		7
4		8

Time Out 10 (Second)

OK Cancel

- Enter the “Print Server Name” controlling the printer (*8CPSEVER*). This must match the “Print Server Name” you generated earlier.
- Enter the timeout setting for the release of the printer port. This should normally be 10 seconds (default).
- 6 When all the settings are finished, click [Setup] on the NetWare setup screen.

7 If the settings are correct, click [Yes]. The settings are transmitted to Ethernet board. At this point, however, Ethernet board is still operating according to the previous settings.

8 Click [Yes] to reset the Ethernet board.

Note.

- *If you select [No], the new settings will take effect after the printer is power cycled.*
- *You may have to power cycle (switch off, then on again) the printer depending on the model.*

9 When [Current Status] changes to [Waiting for Print Job], the printer is ready.

If the status does not change to [Waiting for Print Job], set the file server and Ethernet board again from the beginning.

<Print Server Status>

Printer: P1.SOFT22.ENG7 Type•: Manual Load (Remote) , LPT1 Current Status: Waiting for Print Job
--

Check the status of printer connection

NetWare 3.1 Environment

Under NetWare 3.1, both print server mode and remote printer mode are supported. Although the procedures for setting the file servers are the same, there is a difference in the configuration of the Ethernet board. This section describes the settings for the file server and Ethernet board required to print in the NetWare3.1 environment.

Note

See earlier in this chapter for:

- using the *NetWare 4.1 print server mode via the NDS network;*
- using the *NetWare 4.1 print server mode via the bindery network;*
- *NetWare 4.1 remote printer mode.*

In the following description, NetWare 3.1 is used as an example. Some of the on-screen indications and options may vary according to the OS version and system configuration.

In this example, the Ethernet board is connected to the file server “SOFT22-NW312”.

Starting PCONSOLE

For the purpose of this example we will use F: as the network drive name for logging in to the NetWare server.

- 1 On the client machine, log in to the file server (“SOFT22-NW312”) as supervisor.

F: \>LOGIN SOFT22-NW312/supervisor

- 2 Start PCONSOLE

F: \>pconsole

[Available Options] is displayed

Available Options
Change File Server
Print Queue Information
Print Server Information

Generating Print Queue

- 1 From the [Available Options], select [Print Queue Information] and press the Enter key.
- 2 Press the Ins key. Enter the new print queue name to be generated ("Q8C" in this example), then press the Enter key.

New Print Queue Name: Q-8C

The print queue "8C-SERVER" is generated.

Generating Printer Server

If you use an existing print server, the following settings are not required. Proceed to "Generate Printer controlled by Print server".

- 1 From the [Available Options], select [Printer Server Information] and press the Enter key.
- 2 Press the Ins key to enter a new print server name to be generated ("8C-PSERVER" in this example), and press the Enter key.

New Print Server Name: 8C-PSERVER

The print server name "8CPSERVER" is registered.

Generating Printer controlled by Print Server

- 1 From the [Available Options], select [Printer Server Information] and press the enter key.
- 2 Select the print server you generated ("8C-PSERVER"), then press the enter key.
- 3 Select [Print Server Configuration] and press the Enter key.
- 4 Select [Printer Configuration], then press the Enter key.
- 5 Select a printer number to which no printer is installed, and press the Enter key. In this example [Not Installed 0] is selected.

Configured Printers
Not Installed 0
Not Installed 1
Not Installed 2
Not Installed 3
Not Installed 4
Not Installed 5

6 Enter the remote printer name ("OP8C") in the [Name] column.

Environment Settings for Printer 0

Name: OP8C

Type: Pre-defined

Identifier by Company:
IRQ:

Buffer Size (K bytes):

Paper for Starting:
Queue Service Mode:

Baud Rate:
Data Bit:
Stop Bit:
Parity:

X-On/X-Off Worked or Not Worked

7 Select [Type] and press the Enter key. [Printer Type] is displayed. Select [Remote Parallel, LPT1], then press the Enter key.

Printer Type
Local Parallel, LPT1
Local Parallel, LPT2 Local Parallel, LPT3
Local Serial, COM1
Local Serial, COM2
Local Serial, COM3
Local Serial, COM4
Remote Parallel, LPT1
Remote Parallel, LPT2
Remote Parallel, LPT3

8 Press the Esc key until [Save changes?] is displayed, then select [Yes] and press the Enter key.

The printer "OP8C" is generated on printer no. 0.

Allocating Print Queue to Printer

- 1 Select "Queues Serviced by Printer" and press the Enter key.

Print Server Configuration Menu			
File Server Assigned			
Printer Notification List			
Queues Serviced by Printer			
Printer Configuration			

- 2 Select from "Pre-defined Printers" the printer to which a print queue is to be allocated ("OP8C"). Press the Enter key.
 - 3 Press the Ins key to select the print queue to be allocated to the printer ("Q-8C"). Press the Enter key.
 - 4 Enter the priority for the print queue.
- The print queue and its priority is assigned.

For allocating several print queues, repeat steps 3 and 4.

File Server	Queue	Priority
SE22	Q-8C	1

Closing PCONSOLE

Press the Esc key until [Exit?] appears on the screen, then select [Yes].

Printing in Print Server Mode

- 1 Use the utility to set the Ethernet board.
- 2 Follow the procedure for "Setting Ethernet Board" via the bindery network in NetWare 4.1 print server mode earlier in this chapter.

Printing in Remote Print Mode

- 1 Start the print server ("8CPSERVER" in this example) on the file server console.
:LOAD PSERVER 8C-PSERVER
If the print server has already been running, check that no-one is using it before restart it.
:UNLOAD PSERVER :LOAD PSERVE 8C-PSERVER
2 Set the Ethernet board using the utility.

Follow the procedure for "Setting Ethernet Board" in NetWare 4.1 remote printer mode earlier in this chapter.

Chapter

7

Management of the EtherNet Board

Using a Web Browser	100
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Environment setup	129
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Ethernet board settings	140

Management of the EtherNet Board

The EtherNet Board can be configured from a computer on the network. This procedure will now be explained.

Using a Web Browser

If [the EtherNet Board] is connected to the network with TCP/IP, the EtherNet Board settings and the printer menu settings can be configured using a Web Browser such as Microsoft Internet Explorer or Netscape Navigator.

Use a Web Browser which meets the following conditions:

- *Microsoft Internet Explorer Ver.3.0. or higher*
- *Netscape Navigator Ver.3.0. or higher*

Refer to the specific Web Browser manual on how to launch the Web Browser.

Note.

- *There is no operation assurance on other Web Browser than those mentioned above.*
- *The EtherNet Board has to be connected to the network with TCP/IP.*
- *In order to change the configuration, the user must login as "root".*

- *The password of the "root" user when the Web Browser is used is the last 6 digits of the EtherNet address. This password cannot be changed.*

The following explanation relates to an example in which the printer is OKIPAGE 8c(PS), Windows98 and Microsoft Internet Explorer Ver.4.0 are used.

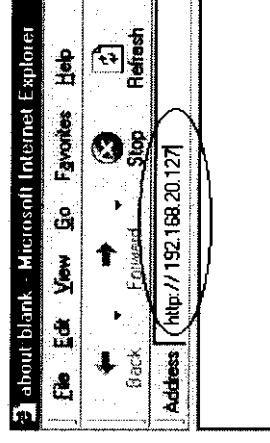
1. Configure the IP address, subnet mask and gateway in the EtherNet Board.

For details, refer to "Configuring the IP address in the EtherNet Board" (Page 14).

2. Launch the Web Browser, type in the IP address of the EtherNet Board in the "Address (Location / Position)" and press the Enter key.

<If the IP address is 192.168.20.127>

http:// 192.168.20.127



The Printer Status screen is displayed.