

**TOSHIBA**

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**Print Kit**  
**OPERATOR'S MANUAL**  
**FOR PRINTER FUNCTION**  
**Network Setup**

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**e-STUDIO16/20/25**

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Thank you for purchasing the Toshiba e-STUDIO16/20/25 GA-1031 Printer Kit. This Operator's Manual outlines the network print functions, procedures for set-up, and trouble shooting for the GA-1031 Printer Board and GF-1110 Network Interface Card. Please thoroughly read this Operator's Manual prior to installation and use. This manual should be used for reference to ensure crisp, clean printed output and optimal networking functionality.

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# INTRODUCTION

# REQUIREMENTS

The following hardware and software requirements are necessary to function with the Network Interface Card.

## Hardware

Be sure to use the correct type of cable and networking device for your network interface card (NIC).

- 10BASE-T  
UTP cable with a Category 3 or 5 RJ-45 connector.
- 100BASE-TX  
STP cable with a Category 5 RJ-45 connector.

## Network Requirements

The following requirements must be met in order for the machine to operate on each network.

- IPX/SPX Network (NetWare)

- |          |  |
|----------|--|
| Server   | : Novell NetWare 3. x, 4. x, 5.x.<br>Either PCONSOLE included with NetWare or NetWare Administrator must be available. |
| Client   | : A computer that can be used as a NetWare client.   |
| Protocol | : IPX/SPX  |

- Microsoft Network

- |          |   |
|----------|---|
| Server   | : Windows NT Server 4.0, Windows 2000 Server  |
| Client   | : Windows 95, Windows 98, Windows Me,<br>Windows NT Workstation 4.0, Windows 2000 Professional,<br>Windows XP Home Edition, and Windows XP Professional |
| Protocol | : TCP/IP, IPX/SPX   |

- AppleTalk (Ethernet)

- |          |                             |
|----------|-----------------------------|
| Host     | : Mac OS 8.0, 8.5, 8.6, 9.0 |
| Protocol | : AppleTalk                 |

## Others

To use the network utility included with this machine, the following requirements must be met.

- NetPanel

- Requirements for the Server that NetPanel will be installed on:

OS: Windows NT 4.0, Windows 2000, and Windows XP

The computer that can be connected to this machine via TCP/IP.

The following services are required:

For Windows NT workstation 4.0: Microsoft Personal Web Server

For Windows NT Server 4.0: Microsoft Internet Information Server 4.0 or later

For Windows 2000 Professional: Microsoft Internet Information Server 5.0 or later

For Windows 2000 Server: Microsoft Internet Information Server 5.0 or later

For Windows XP Home Edition: Microsoft Internet Information Server 5.0 or later.

For Windows XP Professional: Microsoft Internet Information Server 5.0 or later

Netscape Navigator 3.0, or later, or Internet Explorer 3.0, or later

- Client machine to use NetPanel:

The computer that can be connected to this machine and the server machine for NetPanel via TCP/IP.

Netscape Navigator 3.0, or later, or Internet Explorer 3.0, or later

- MAP

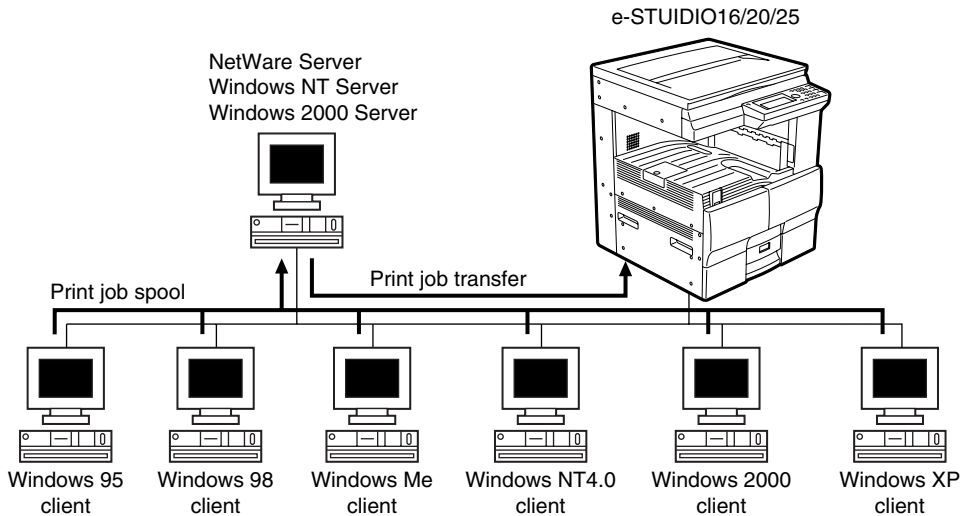
A computer that can be connected to this machine via IPX/SPX, and where TCP/IP is installed.

Netscape Navigator 3.0 , or later, or Internet Explorer 3.0, or later

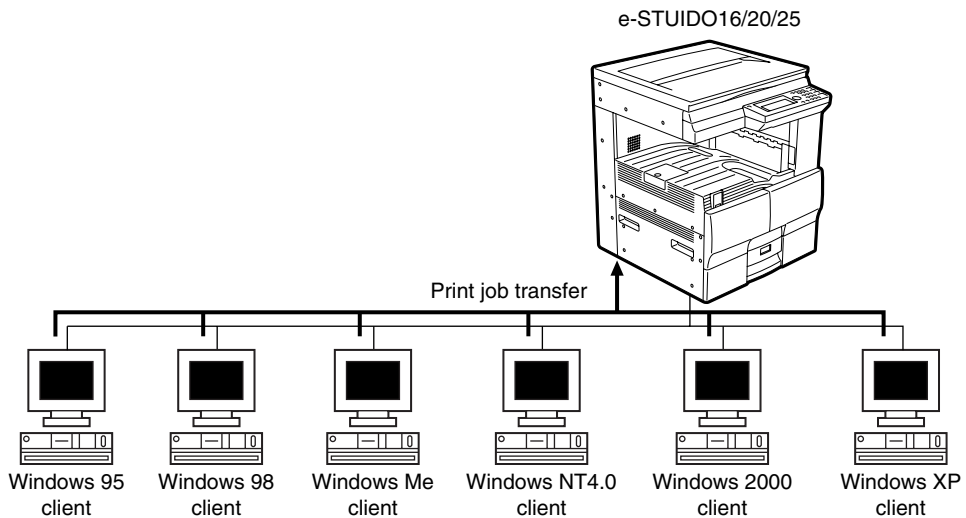
# EXAMPLES OF CONNECTING THE PRINTER

The following network configurations are available to connect the e-STUDIO16/20/25 network printer:

## Example of connection on a client-server type network



## Example of connection on a peer-to-peer type network



# SETUP FLOW

## Setup for Client Server Network for Windows

Instructions for set-up on a Windows NT Server, Windows 2000 Server, NetWare with TCP/IP, or NetWare without TCP/IP network.

	Windows NT/2000 Server	NetWare with TCP/IP	NetWare without TCP/IP
Control Panel Setup	<ul style="list-style-type: none"> <li>Assign the IP address, Subnet Mask, and Gateway address. (See "NETWORK SETUP - ASSIGNING IP ADDRESS".)</li> </ul>	<ul style="list-style-type: none"> <li>Assign the IP address, Subnet Mask, and Gateway address. (See "NETWORK SETUP - ASSIGNING IP ADDRESS".)</li> <li>Configure the Novell Settings. (See "NETWORK SETUP - NOVELL SETTINGS")</li> </ul>	<ul style="list-style-type: none"> <li>Configure the Novell Settings. (See "NETWORK SETUP - NOVELL SETTINGS")</li> </ul>
Print Server Setup	<ul style="list-style-type: none"> <li>Setup Windows NT Server. (See "SETUP THE PRINT SERVER WITH Windows NT 4.0/2000 -Windows NT PRINT SERVER SETUP".)</li> <li>Setup Windows 2000 Server. (See "SETUP THE PRINT SERVER WITH Windows NT/2000 - Windows 2000 PRINT SERVER SETUP".)</li> </ul>	<ul style="list-style-type: none"> <li>Setup NetWare 3.x. (See "SETUP THE PRINT SERVER WITH NetWare 3.x - NetWare 3.x Setup".)</li> <li>Setup NetWare 4.x in bindery mode. (See "SETUP THE PRINT SERVER WITH NetWare 4.x - Setup in Bindery Mode".)</li> <li>Setup NetWare 4.x in NDS mode. (See "SETUP THE PRINT SERVER WITH NetWare 4.x - Setup in NDS Mode".)</li> <li>Setup NetWare 5.x in NDS mode. (See "SETUP THE PRINT SERVER WITH NetWare 5.x - Setup in NDS Mode".)</li> </ul>	<ul style="list-style-type: none"> <li>Setup NetWare 3.x. (See "SETUP THE PRINT SERVER WITH NetWare 3.x - NetWare 3.x Setup".)</li> <li>Setup NetWare 4.x in bindery mode. (See "SETUP THE PRINT SERVER WITH NetWare 4.x - Setup in Bindery Mode".)</li> <li>Setup NetWare 4.x in NDS mode. (See "SETUP THE PRINT SERVER WITH NetWare 4.x - Setup in NDS Mode".)</li> <li>Setup NetWare 5.x in NDS mode. (See "SETUP THE PRINT SERVER WITH NetWare 5.x - Setup in NDS Mode".)</li> </ul>
NetWare Setup	—	Setup NetWare using MAP. (See "MAP - SETUP NetWare at MAP".)	Setup NetWare using MAP. (See "MAP - SETUP NetWare at MAP".)
Install Printer Driver	Install the appropriate Printer Driver for the Operating System used and configure options. (See "INSTALLING THE PRINTER DRIVER for Windows".)	Install the appropriate Printer Driver for the Operating System used and configure options. (See "INSTALLING THE PRINTER DRIVER for Windows".)	Install the appropriate Printer Driver for the Operating System used and configure options. (See "INSTALLING THE PRINTER DRIVER for Windows".)

## Setup for the Peer-to-Peer Type Network

Instructions for set-up on a Peer-To-Peer TCP/IP, IPX/SPX, and the AppleTalk (Ethernet) Network.

### For Windows

	TCP/IP	IPX/SPX
Control Panel Setup	Assign the IP address, Subnet Mask, and Gateway address. (See "NETWORK SETUP - ASSIGNING IP ADDRESS".)	<ul style="list-style-type: none"> <li>Assign the IP address, Subnet Mask, and Gateway address. (See "NETWORK SETUP - ASSIGNING IP ADDRESS".)</li> <li>Configure the Novell Settings. (See "NETWORK SETUP - NOVELL SETTINGS".)</li> </ul>
Install the Peer-to-Peer Utility	Install the Peer-To-Peer Utility for TCP/IP. (See "USING WITH PEER-TO-PEER UTILITY - Peer-to-Peer Utility for TCP/IP Setup".)	Install the Peer-To-Peer Utility for IPX/SPX. (See "USING WITH PEER-TO-PEER UTILITY - Peer-to-Peer Utility for IPX/SPX Setup".)
Install the Printer Driver	Install the appropriate Printer Driver for the Operating System used and configure options. (See "INSTALLING THE PRINTER DRIVER for Windows".)	Install the appropriate Printer Driver for the Operating System used and configure options. (See "INSTALLING THE PRINTER DRIVER for Windows".)

### For Macintosh

Control Panel Setup	<ul style="list-style-type: none"> <li>Assign the IP address, Subnet Mask, and Gateway address. (See "ASSIGNING IP ADDRESS".)</li> <li>Enable the AppleTalk. (See "NETWORK SETUP - APPLE TALK SETTING".)</li> </ul>
Install Printer Driver	Copy the PPD file and select the printer. (See "INSTALLING THE PRINTER DRIVER for Macintosh" .)
AppleTalk Setup	Setup AppleTalk using MAP. (See "MAP - AppleTalk Setup".)
Printer Specific Options Setup	Configure the Printer Specific Options. (See "INSTALLING THE PRINTER DRIVER for Macintosh - Printer Specific Options".)

# NETWORK SETUP

# ASSIGNING THE IP ADDRESS

Assign the IP address, the Subnet Mask, and the Gateway address of this machine. This address is required when using the TCP/IP protocol.

The steps for assigning the IP address are described in the following section:

- Assigning an IP Address from the Control Panel (→P.15)

To assign the IP address, the Subnet Mask, and the Gateway address without having to configure any other TCP/IP settings (such as WINS name), use this method.

- Assigning an IP Address using MAP (→P.19)

The IP address can be assigned from a remote computer while also configuring various TCP/IP settings (such as WINS name).

## **SUPPLEMENT:**

You can use the TOSHIBA Status Display to assign an IP address as well as configure other protocol settings. However, the e-STUDIO16/20/25 must be connected locally via the LPT port in order for the TOSHIBA Status Display to assign an IP address. If any problems occur, when assigning the IP address and MAP is not available, use the TOSHIBA Status Display to re-assign the IP address. See "TOSHIBA STATUS DISPLAY FUNCTION - PRINTER SETTING - [NIC Configuration] Tab" in the "OPERATOR'S MANUAL FOR PRINTER FUNCTION - Local Setup".



## Assigning the IP Address from the Control Panel


**1** In Standby Mode, press  key.

- The PROGRAM menu is displayed.

**2** Press **0** + **3** on the Dial Keypad to select INITIAL SETUP.

PROGRAM	
01 .DEFAULT SETTING	▲
02 .LISTS	
03 .INITIAL SETUP	▼

**3** Press **0** + **4** on the Dial Keypad to select NETWORK.

- NETWORK is outside of the Message Display Panel. Press  to display the desired item.

INITIAL SETUP	
02 .LANGUAGE	▲
03 .TERMINAL ID	
04 .NETWORK	▼

**TIP**

“03. TERMINAL ID” appears on the menu only when the FAX option is installed.

**4** Press **0** + **2** on the Dial Keypad to select TCP/IP.

NETWORK	
01 .COMPLETE	▲
02 .TCP/IP	
03 .NETWARE	▼

**5** When the IP address can be obtained from the DHCP server, continue to “Use DHCP Server”.

TCP/IP	
01 .BOOTP/DHCP	▲
02 .IP ADDRESS	
03 .SUBNET MASK	▼

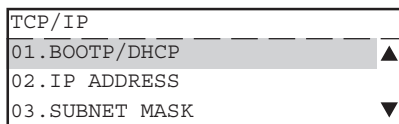
When the IP address is assigned manually, continue to “Assign IP Address Manually”.

### Use DHCP Server

**SUPPLEMENTS:**

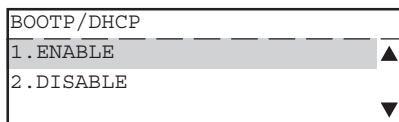
- When the IP address is obtained from the DHCP server, TCP/IP printing cannot be performed because the IP address changes each time the printer is powered on.
- If there is a WINS server and you want to use a WINS name for the NIC, see “Assigning IP Address using MAP”. By configuring the port with a WINS name instead of an IP address, TCP/IP printing can be performed.

**1** Press **0** + **1** on the Dial Keypad to select **BOOTP/DHCP**.



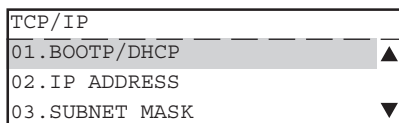
**2** Press **1** on the Dial Keypad to select **ENABLE**.

- If there is a DHCP server on your network and you do not want use DHCP, press **2** to select **DISABLE**.
- The display returns to TCP/IP menu.



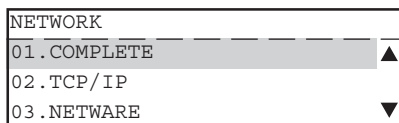
**3** Press **CANCEL**.

- The display returns to NETWORK menu.



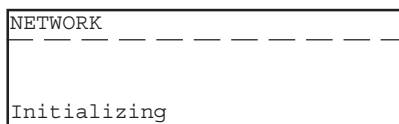
**4** Press **0** + **1** on the Dial Keypad to select **COMPLETE**.

- If you want to cancel the TCP/IP setting, press

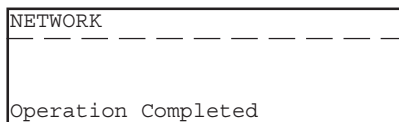


**5** The network setting is executing.

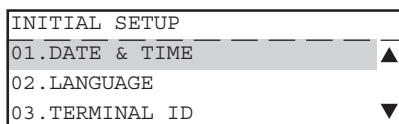
- The Initializing message appears. After 2 sec., the Operation Completed message appears. Then, the display returns to the INITIAL SETUP menu.
- The Network Interface Card begins to initialize.



▼ After 2 sec.

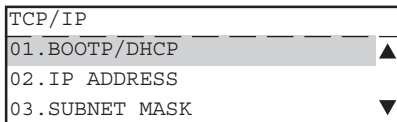


▼ After 2 sec.

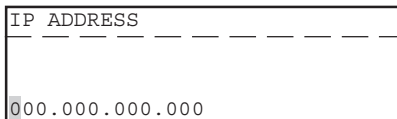


## Assign the IP Address Manually

- 1** Press **0** + **2** on the Dial Keypad to select IP ADDRESS.

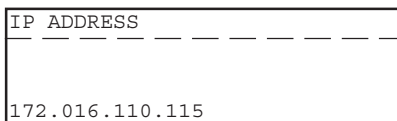


- 2** Enter the IP Address using the Dial Keypad.



- 3** Press **SET**.

- The display returns to the TCP/IP menu.



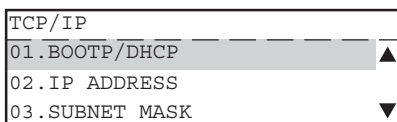
### SUPPLEMENT:

When you want to assign the Subnet Mask and Gateway address, continue the operation after the display returns to the TCP/IP menu. The set-up is the same as the IP address.

- To assign the Subnet Mask, press **0** + **3** to select SUBNET MASK.
- To assign the Gateway address, press **0** + **4** to select DEFAULT GATEWAY.

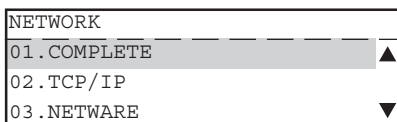
- 4** Press **CANCEL**.

- The display returns to the NETWORK menu.



- 5** Press **0** + **1** on the Dial Keypad to select COMPLETE.

- If you want to cancel the TCP/IP setting, press



## 6 The network setting is executing.

- The Initializing message appears. After 2 sec., the Operation Completed message appears. Then, the display returns to the INITIAL SETUP menu.
- The Network Interface Card begins to initialize.

```
NETWORK
-----
Initializing
```

▼ After 2 sec.

```
NETWORK
-----
Operation Completed
```

▼ After 2 sec.

```
INITIAL SETUP
-----
01.DATE & TIME ▲
02.LANGUAGE
03.TERMINAL ID ▼
```

## Assigning the IP Address using MAP

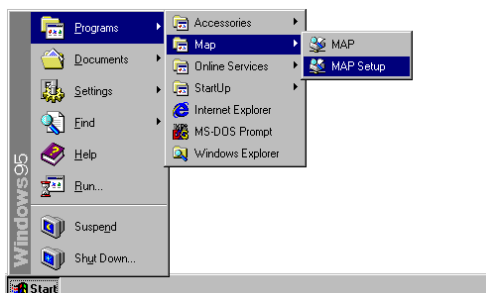
### NOTES:

- When there is a DHCP server, the TCP/IP Protocol must be installed on your computer.
- When there is a NetWare server, the IPX/SPX-compatible Protocol must be installed on your computer.
- A web browser, Netscape Navigator3.0 and up, or Internet Explorer3.0 and up, must be installed on your computer.
- If there is a Web Server on the local area network, shut down the Web Server.
- Assign the Gateway address for the network printer through a router. Enter the router's address for the Gateway address.

Use MAP to assign the machine a static IP address or configure the TCP/IP settings to obtain an IP address from a DHCP server. Prior to this operation, MAP must be installed. For the details of MAP installation, see "MAP - Install MAP."

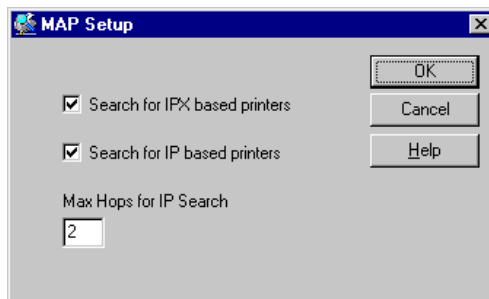
### 1 Select Programs from the Start menu and click on MAP Setup in the Map folder.

- The MAP Setup screen appears.



### 2 Check on either Search for IPX based printers or Search for IP based printers, depending on your network environment.

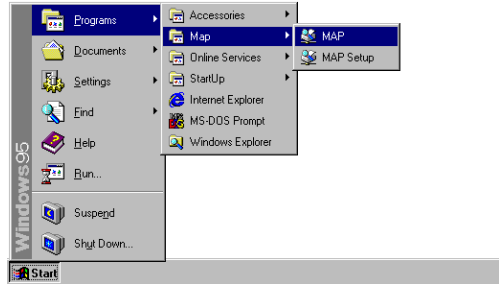
- Check "Search for IPX based printers" if your network includes NetWare servers.
- Check "Search for IP based printers" if your network includes DHCP servers.



### 3 Click [OK].

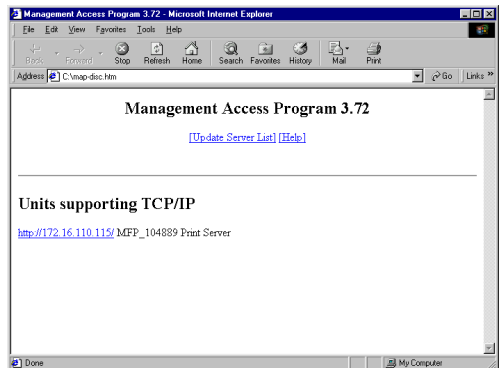
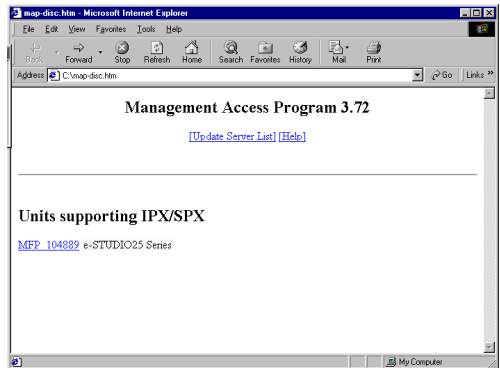
#### 4 Select Programs from the Start menu and click on MAP in the Map folder.

- Start searching network printers.
- Display the search results with your default browser.



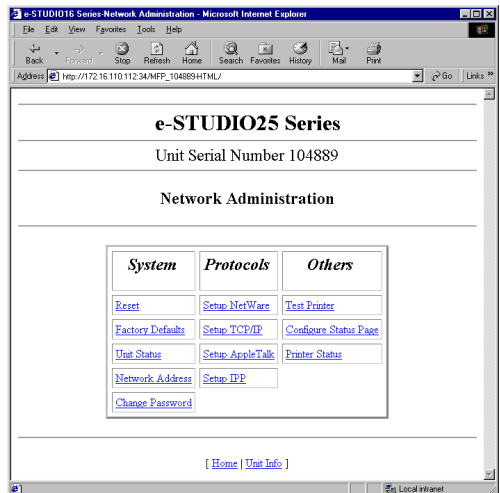
#### 5 Click on your printer unit.

- When you search for printers based on the IPX/SPX protocol, the printer unit name is displayed as "MFP\_XXXXXX", where the X's correspond to the NIC serial number.
- When you search for printers based on the TCP/IP protocol, the printer's IP address is displayed.



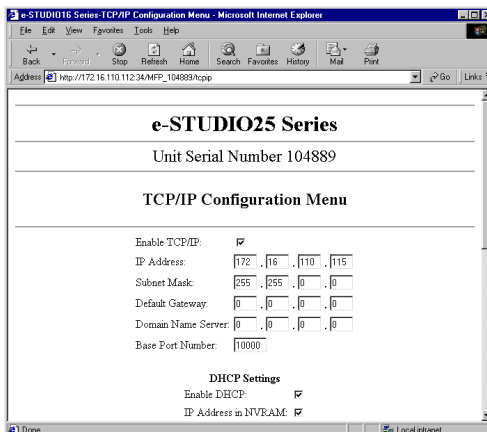
#### 6 Click on Setup TCP/IP.

- The TCP/IP Configuration Menu page is displayed.
- When you want to assign a unique IP address, go to step 7.
- When you want to obtain an IP address from a DHCP server, go to step 8.



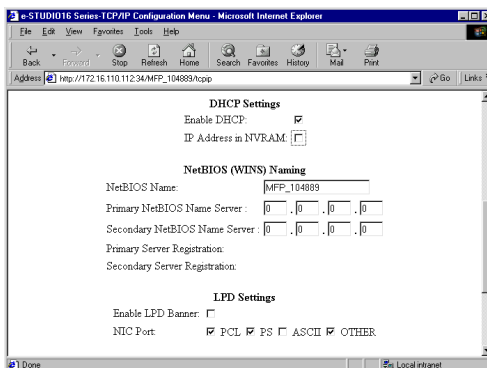
## 7 Check on Enable TCP/IP and enter the IP Address.

- Enter the Subnet Mask and Default Gateway address if necessary.
- Go to step 9.



## 8 Check off IP Address in NVRAM.

- "Enable DHCP" should be checked as a default setting. Ensure that it is enabled.



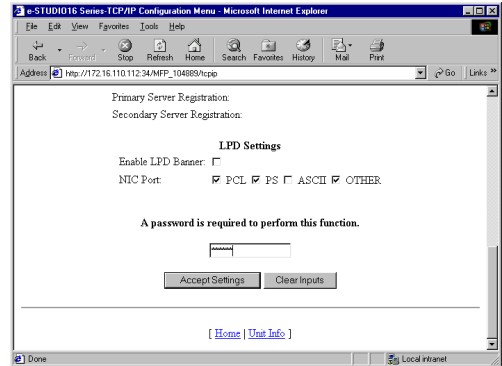
### SUPPLEMENTS:

- When the "IP Address in NVRAM" option is enabled, the IP address that was previously obtained from the DHCP is stored in NVRAM. The NIC uses the IP address stored in NVRAM the next time the printer is powered on, instead of obtaining an IP address from the DHCP server. In order to avoid any network address conflicts, it is recommended that you do not use the "IP Address in NVRAM" option when using the "Enable DHCP" option.
- If there is a WINS server and you want to use a WINS name for the NIC, enter the NetBIOS Name and the IP address of the Primary NetBIOS Name Server. When using a DHCP server to obtain an IP address, TCP/IP printing cannot be performed because the IP address changes each time the printer is powered on. By configuring the port with a WINS name instead of an IP address, TCP/IP printing can be performed.

**9** Scroll down to the bottom of the page.

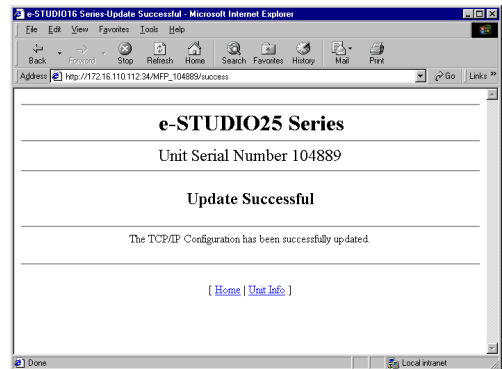
**10** Enter a password and click on **[Accept Settings]**.

- The default password is "sysadm". The entered password is described with asterisks " \* ".



**11** Complete the IP Address setting.

- The NIC will automatically restart. Please wait a few minutes until the NIC status sheet is printed. See the NIC status sheet to confirm the IP address is assigned correctly.
- If the NIC status sheet is not printed, use the ping command to confirm the IP address is assigned correctly. Start the MS-DOS Prompt, and at the command prompt enter "ping xxx.xxx.xxx.xxx" ("xxx.xxx.xxx.xxx" is the IP address that you assigned to the NIC). Repeat this until the NIC replies.



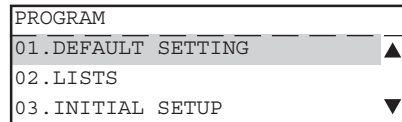


# NOVELL SETTINGS

When using the NetWare server for printing, the Novell Settings must be configured to enable connection to the printer via the IPX/SPX protocol.


**1** In Standby Mode, press  key.

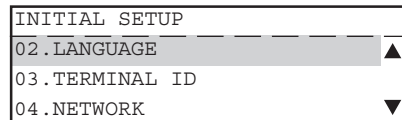
- The PROGRAM menu is displayed.



**2** Press **0** + **3** on the Dial Keypad to select INITIAL SETUP.

**3** Press **0** + **4** on the Dial Keypad to select NETWORK.

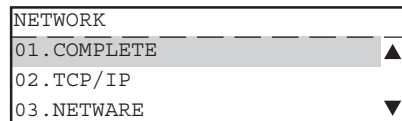
- NETWORK is outside of the Message Display Panel. Press  to display the desired item.



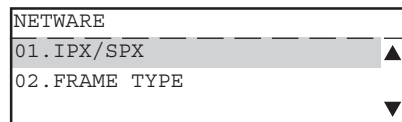
**TIP**

“03. TERMINAL ID” appears on the menu only when the FAX option is installed.

**4** Press **0** + **3** on the Dial Keypad to select NETWORK.

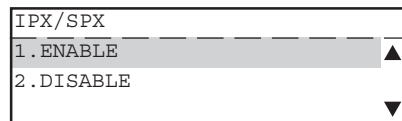


**5** Press **0** + **1** on the Dial Keypad to select IPX/SPX.



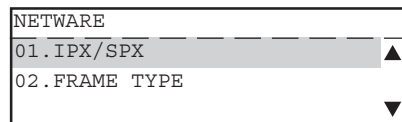
**6** Press **1** on the Dial Keypad to select ENABLE.

- The display returns to the TCP/IP menu.




**7** Press **0** + **2** on the Dial Keypad to select the FRAME TYPE.

- If you do not have to change the frame type of the NIC, skip to Step 9.



## 8 Press the numeric key of the desired frame type on the Dial Keypad.

- Some items are outside of the Message Display Panel. Press  to display the desired item.
- The display returns to NETWORK menu after selecting the frame type.

### Press **1** to select AUTO.

- AUTO: The printer selects the appropriate frame type automatically. This is the factory default.

### Press **2** to select 802.2.

- 802.3: The network uses 802.2 frame type.

### Press **3** to select 802.3.

- ETHERNET II: The network uses 802.3 frame type.

### Press **4** to select ETHERNET II.

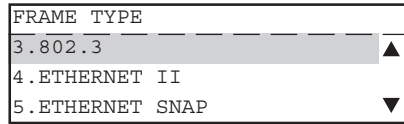
- 802.3 SNAP: The network uses ETHERNET II frame type.

### Press **5** to select ETHERNET SNAP.

- 802.2: The network uses ETHERNET SNAP frame type.

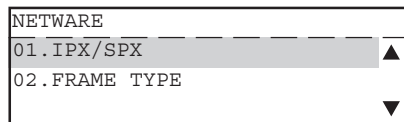


▼ Press  two times.



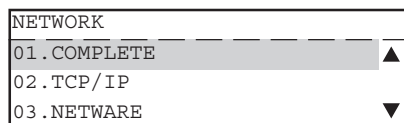
## 9 Press .

- The display returns to the NETWORK menu.



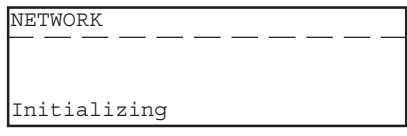
## 10 Press **0** + **1** on the Dial Keypad to select COMPLETE.

- If you want to cancel the Novell setting, press

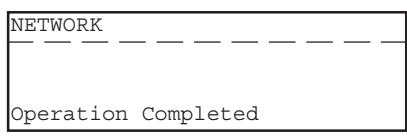


# 11 The network setting is executing.

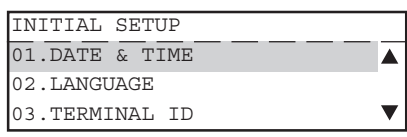
- The Initializing message appears. After 2 sec., the Operation Completed message appears. Then, the display returns to the INITIAL SETUP menu.
- The Network Interface Card begins to initialize.



▼ After 2 sec.



▼ After 2 sec.

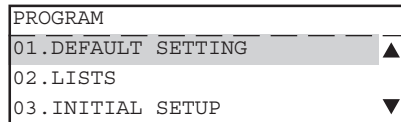


# APPLETALK SETTING

When printing with Macintosh computers, the AppleTalk Setting must be configured to enable connecting to the machine via the AppleTalk protocol.


**1** In Standby Mode, press  key.

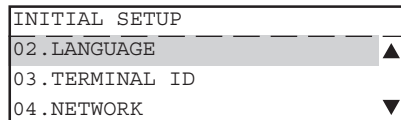
- The PROGRAM menu is displayed.



**2** Press  +  on the Dial Keypad to select INITIAL SETUP.

**3** Press  +  on the Dial Keypad to select NETWORK.


- NETWORK is outside of the Message Display Panel. Press  to display the desired item.

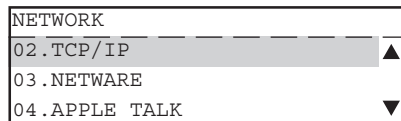


#### TIP

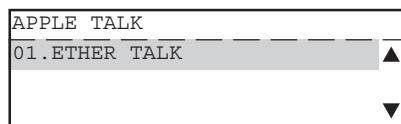
“03. TERMINAL ID” appears on the menu only when the FAX option is installed.


**4** Press  +  on the Dial Keypad to select APPLE TALK.

- APPLE TALK is outside of the Message Display Panel. Press  to display the desired item.

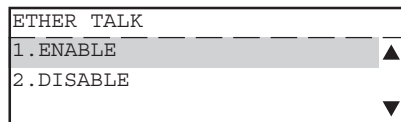


**5** Press  +  on the Dial Keypad to select ETHER TALK PROTOCOL.



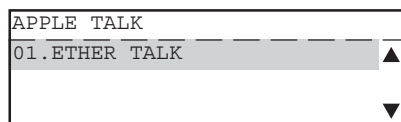
**6** Press  on the Dial Keypad to select ENABLE.

- The display returns to the ETHER TALK menu.



**7** Press  .

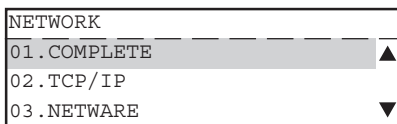
- The display returns to the NETWORK menu.



**8** Press **0** + **1** on the Dial Keypad to select **COMPLETE**.

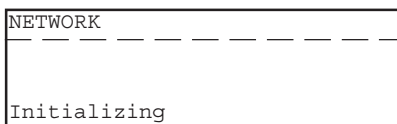
- If you want to cancel the AppleTalk setting,

press <sup>CANCEL</sup> **0**.

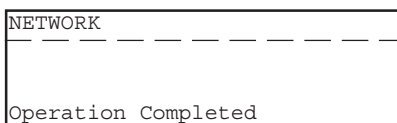


**9** The network setting is executing.

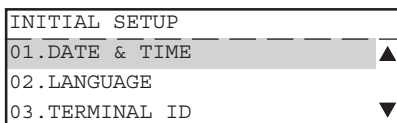
- The Initializing message appears. After 2 sec., the Operation Completed message appears. Then, the display returns to INITIAL SETUP menu.
- The Network Interface Card begins to initialize.



▼ After 2 sec.



▼ After 2 sec.





# USING WITH PEER-TO-PEER UTILITY

# PEER-TO-PEER UTILITIES

The peer-to-peer utility allows this machine to be used as a network printer on a peer-to-peer network via TCP/IP or IPX/SPX. Installing the peer-to-peer utility allows print data from a computer to be sent directly to the e-STUDIO16/20/25. Install the peer-to-peer utility on each computer from which you would like to print from.

There are two types of the peer-to-peer utility: One for the TCP/IP protocol and one for the IPX/SPX protocol. Choose either one according to the network protocol used.

## Required Environment

### For TCP/IP Protocol

- Operating system (OS)  
Windows 95, Windows 98, Windows Me, Windows NT 4.0, Windows 2000, Windows XP
- Network protocol  
TCP/IP protocol

### For IPX/SPX Protocol

- Operating system (OS)  
Windows 95, Windows 98, Windows Me, Windows NT 4.0, Windows 2000, Windows XP
- Network protocol  
IPX/SPX protocol

#### SUPPLEMENTS:

- The network setup should be completed on your computer.
- If you are not sure which protocol to use, please contact your system administrator.
- Complete the printer's network setup first, as necessary. This e-STUDIO16/20/25 must be set up by a system administrator.



# INSTALLING THE PEER-TO-PEER UTILITY FOR TCP/IP

The following shows the procedure to install the peer-to-peer utility for TCP/IP:

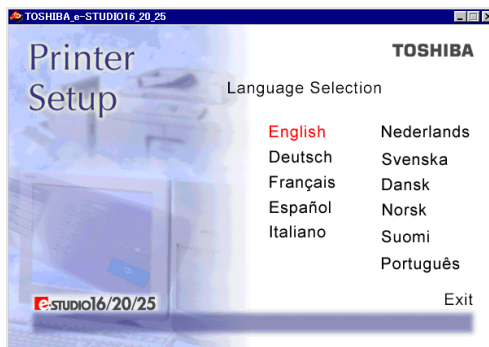
## Installation

### PREPARATIONS:

- Connect both the e-STUDIO16/20/25 and your computer to the network.
- Turn ON the power to the machine.
- Establish an IP address for the machine.
- Check to see if the "TCP/IP" protocol has been activated on the computer. If not, install it. To install the protocol, see the Windows HELP menu on the computer.

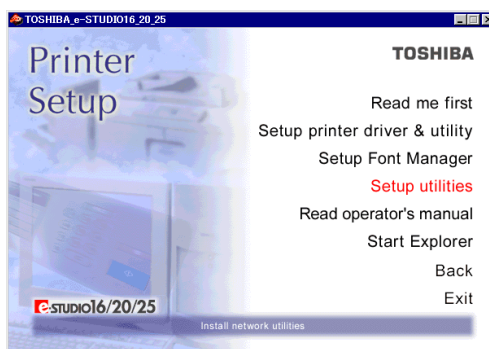
### 1 Insert the CD-ROM into the CD-ROM drive.

- The menu screen appears.
- If the menu screen is not automatically displayed, or when the Peer-to-Peer Utility for TCP/IP is installed via the network, double-click on "TOSHIBA\_e-STUDIO16\_20\_25.exe" in the Menu folder of the CD-ROM, that may be found in Windows Explorer.

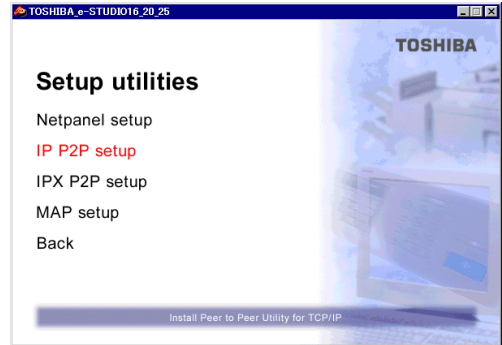


### 2 Click on a language of your Operating System.

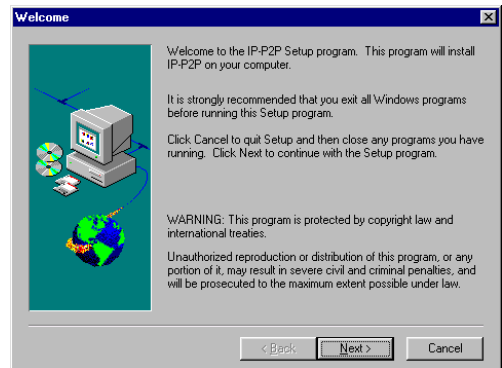
### 3 Click on [Setup utilities].



- 4** Click on [IP P2P setup].
- The welcome screen appears.

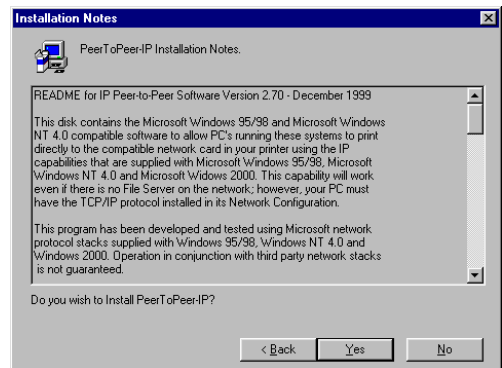


- 5** Click on [Next].

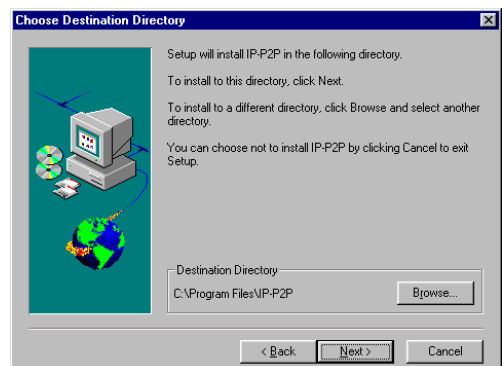


- 6** Installation Notes are displayed.

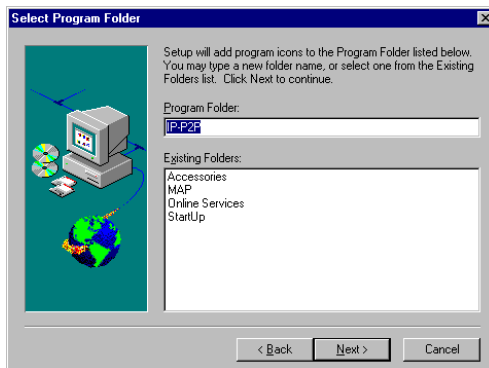
- 7** Click on [Yes].
- The Choose Destination Directory screen appears.



- 8** If necessary, change the folder for the files to be installed, then click on [Next].



**9** Click on [Next].

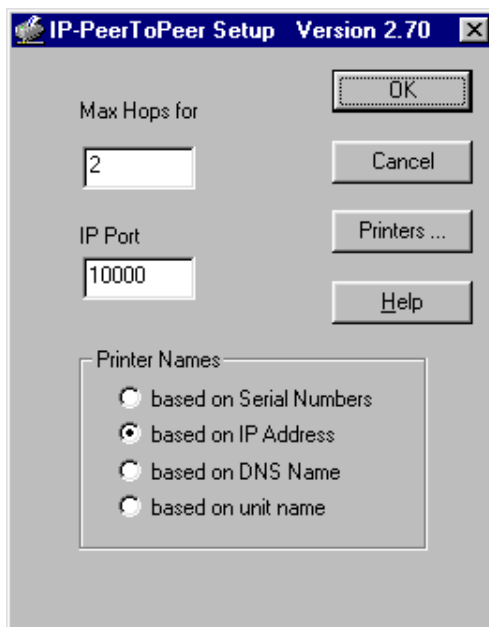


**10** The files are installed.

- The IP-PeerToPeer Setup screen appears.

**11** In the field of “Max Hops for,” input a value of 0 to 15, to specify the range for the printer to be searched.

- 0:  
Searches only the local area network where the workstation is directly connected.
- 2 to 14:  
Searches the local area network on which the workstation is directly connected and the networks which are accessible within the specified number of routers.
- 15:  
Searches all the networks that are connected.



**12** In most cases, leave the “IP Port” as it is shown. It is the default port number of the print server.

### 13 In the “Printer Names” box, select the port name required to be displayed.

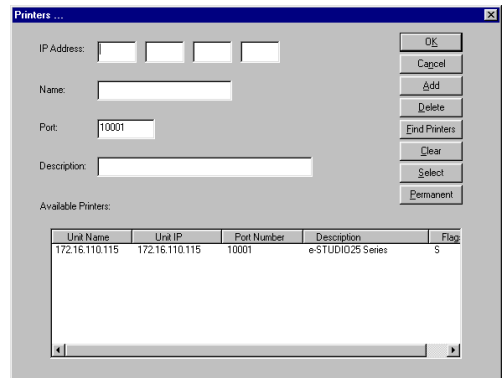
- [based on Serial Numbers]  
To display the serial number of the network interface.
- [based on IP Address]  
To be displayed with the IP address of the e-STUDIO16/20/25. (This is the default selection.)
- [based on DNS Name]  
To display the domain name assigned to this machine when the Domain Server is activated.
- [based on unit name]  
To display the unit name (printer name).

### 14 Click on [Printers...].

- The Printers... screen appears.

### 15 Make sure the printer is displayed under the “Available Printers” section. Check if “s” is displayed in the Flag column. If it is not displayed, click on [Select].

- When the machine is displayed under “Available Printers”, go to Step 20.
- When the machine is not displayed under “Available Printers”, go to the next step.

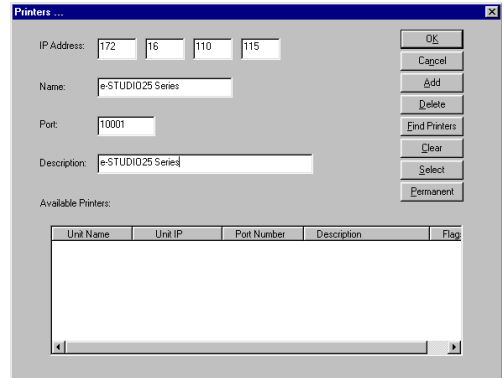


### 16 Click on [Find Printers].

- The system begins searching for printers on your network.
- When the system finds the printer and displays the machine under “Available Printers”, go to Step 20.
- When the system does not find the machine, go to the next step.

## 17 Complete the field of each required item.

- [IP Address]  
Input the IP address of the printer.
- [Name]  
Input the printer name you desire. The port name is name input here.
- [Port]  
In most cases, this does not need to be set. Input the value obtained by adding 1 (one) to the "Base Port Number" in the NetPanel "NIC Configure - IP Configuration."
- [Description]  
If necessary, input a comment about the printer.



## 18 Click on [Add].

- If an addition has been made by mistake, click on the added printer then click on [Delete].

## 19 The printer is added to the [Available Printers] list.

## 20 Click on [OK].

## 21 Click on [OK].

- The completion message is displayed.

## 22 Click on the [OK].

## 23 Next, installing the printer driver:

- For installing the printer driver, see "INSTALLING THE PRINTER DRIVER for Windows" on later pages.



### SUPPLEMENTS:

- After the peer-to-peer utility for TCP/IP is installed, please continue the operation for installing the printer driver.
- The "IP-P2P" program group and icon are added to the Start Menu. You can re-configure using the program.
- If you make a change in the "Print Names" section, upon closing the program, it prompts you to reboot the computer. Click on [OK] and restart your computer.

# INSTALLING THE PEER-TO-PEER UTILITY FOR IPX/SPX

The following shows the procedure to install the peer-to-peer utility for IPX/SPX.

## Installation

### PREPARATIONS:

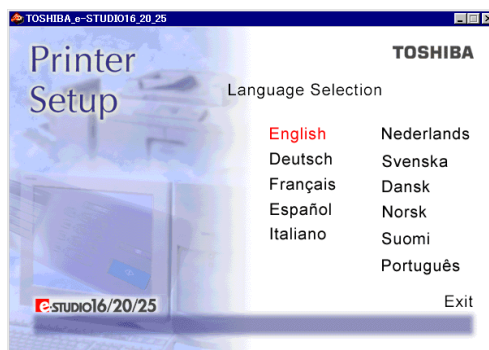
- The printer must be enabled to use NetWare. Ask your administrator for more details.
- Connect both the printer and your computer to the network.
- Turn ON the power to the machine.
- Check if any “IPX/SPX compatible protocol” has been installed on your Windows OS computer. If not, install it.

### NOTE:

When using the peer-to-peer utility for IPX/SPX where no NetWare server is on the network, it is recommended that you change the frame type of the IPX/SPX-compatible protocol installed on your computer. Open the properties dialog for the IPX/SPX-compatible protocol and change the frame type to “Ethernet 802.3.”

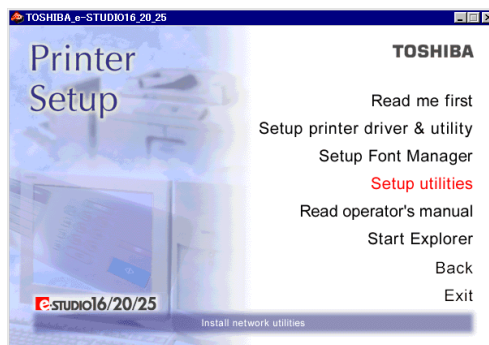
## 1 Insert the CD-ROM into the CD-ROM drive.

- The menu screen appears.
- If the menu screen is not automatically displayed, or when the Peer-to-Peer Utility for IPX/SPX is installed via the network, double-click on “TOSHIBA\_e-STUDIO16\_20\_25.exe” in the Menu folder of the CD-ROM, which may be found in Windows Explorer.



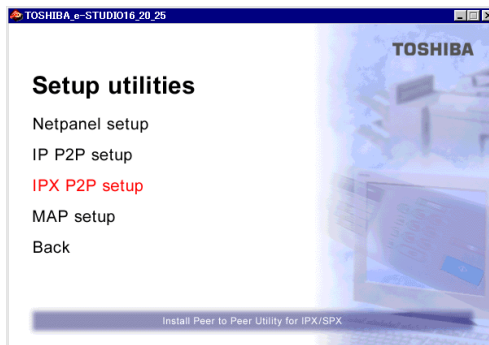
## 2 Click on a language of your Operating System.

## 3 Click on [Setup utilities].



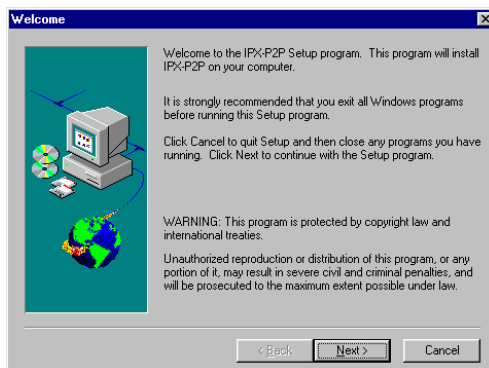
#### 4 Click on [IPX P2P setup].

- The welcome screen appears.



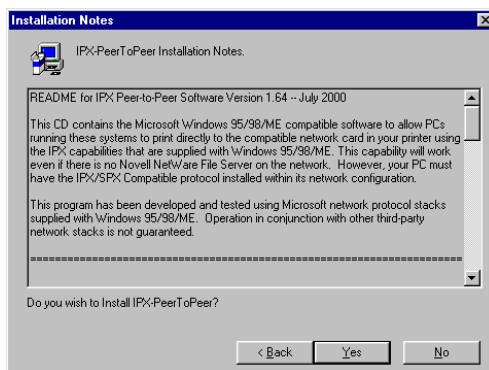
#### 5 Click on [Next].

- The Installation Notes screen appears.

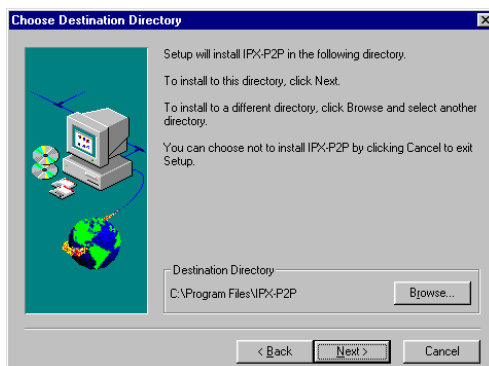


#### 6 Click on [Yes].

- The Installation Notes screen appears.



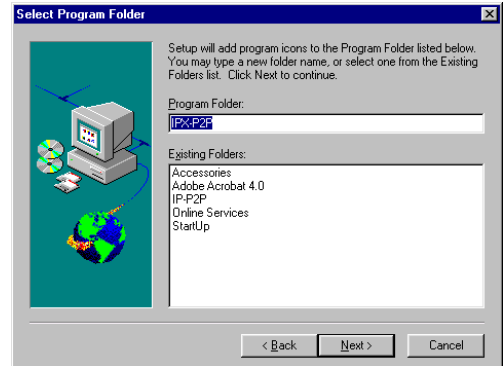
#### 7 If necessary, change the folder for the files to be installed, then click on [Next].



**8** Click on [Next].

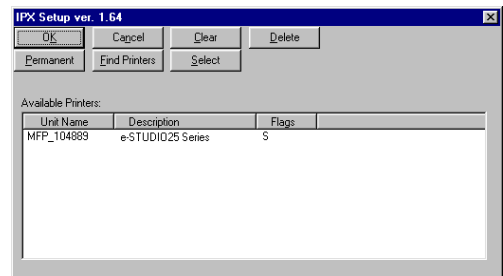
**9** The files are installed.

- After completing copying files, the IPX Setup screen appears.



**10** Make sure the printer is displayed under “Available Printers”.

- When the machine is displayed under “Available Printers”, go to Step 12.
- When the machine is not displayed under “Available Printers”, go to the next step.



**11** Click on [Find Printers].

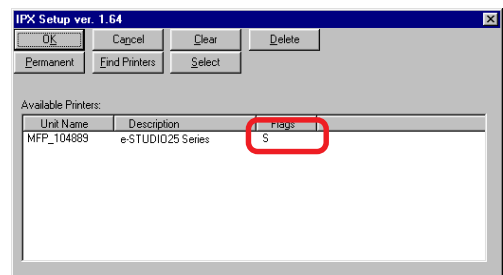
- The system begins searching for printers on your network and displays the printer(s) found on the network.

**NOTE:**

If the printer is not found on the network, make sure that the network conditions are satisfied.

**12** Make sure the printer displayed under “Available Printers” shows “S” flag in the “Flags” column.

- The system begins searching for printers on your network and displays the printer(s) found on the network.



**13** Click on [OK].

- The Information screen appears.



14

Click on [OK].

- The Installation is completed.



### SUPPLEMENTS:

- After the peer-to-peer utility for IPX/SPX is installed, please continue the operation for installing the printer driver.
- The “IPX-P2P” program group and icon are added to the Start Menu. You can re-configure using the program.

# UNINSTALLING THE PEER-TO-PEER UTILITY

To uninstall the Peer-to-Peer Utility, follow the procedure below.

## NOTE:

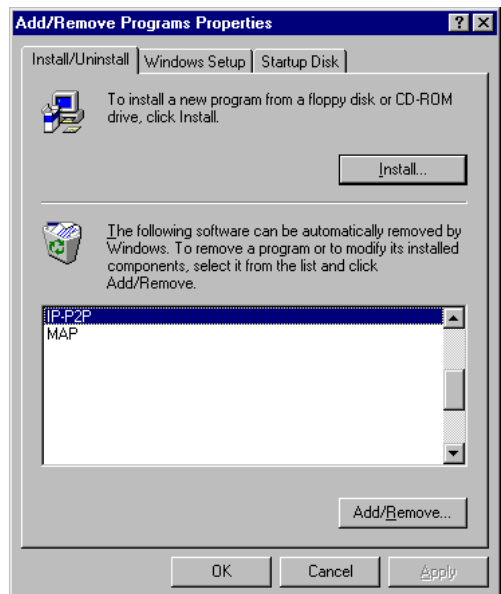
Before uninstalling, delete the printer driver or change the port of the printer driver. If you uninstall the Peer-to-Peer utility before deleting the printer driver or changing the port, the Peer-to-Peer utility may not be uninstalled completely.

To uninstall the printer driver, see "INSTALLING THE PRINTER DRIVER for Windows - UNINSTALLING THE PRINTER DRIVER."

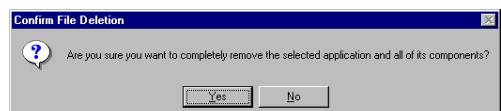
## Uninstalling the Peer-to-Peer Utility for TCP/IP

- 1 Click on [Start], then select [Settings].
- 2 Select the [Control Panel].
- 3 Double-click on [Add/Remove Programs].
- 4 Select [IP-P2P], then select [Add/Remove...].

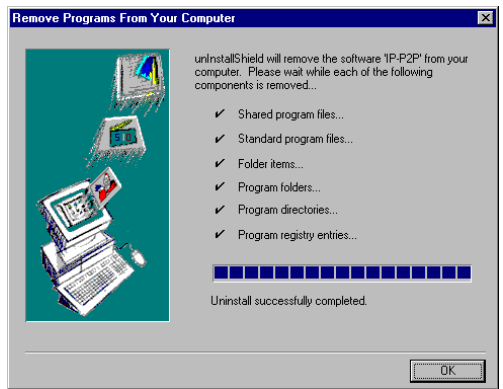
- See the illustration on the right.



- 5 Click on [Yes].
- The peer-to-peer utility for TCP/IP is uninstalled.



- 6 Click on [OK].
- 7 Restart the computer.

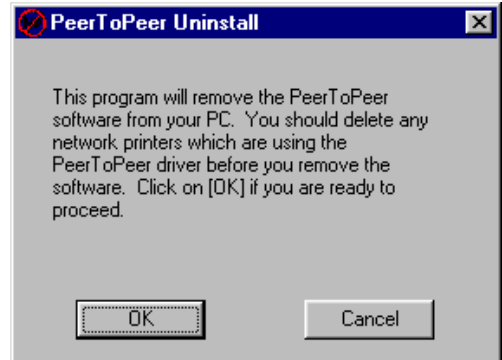


**Uninstalling the Peer-to-Peer Utility for IPX/SPX**

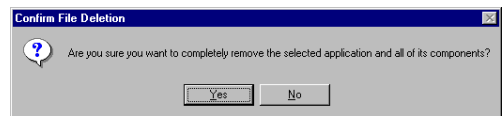
- 1 Click on [Start], then select [Settings].
- 2 Select the [Control Panel].
- 3 Double-click on [Add/Remove Programs].
- 4 Select [IPX-P2P], then select [Add/Remove...].
  - See the illustration on the right.



**5** Click on [OK].

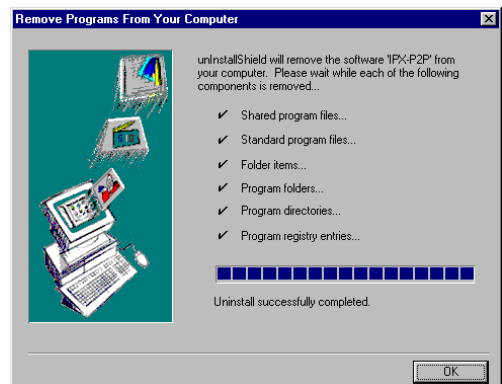


**6** Click on [Yes].  
● The peer-to-peer utility for TCP/IP is uninstalled.



**7** Click on [OK].

**8** Restart the computer.



# SETUP THE PRINT SERVER WITH NetWare 3.x

# NetWare 3.x SETUP

When using with NetWare 3.x this machine is set up by using PCONSOLE.

## NOTES:

Set up in the print server mode. The Remote Printer Set-up cannot be used.

## Set-up Example

The following example is performed under the conditions stated below. Check the conditions of the environment you are using.

<Server>

- NetWare server name : NWSRV (They must correspond with the names to be set for the printer using MAP.)

<Contents to be set>

Name the following as desired.

- Print queue name : TOS\_QUE
- Printer name : TOS\_PRN
- Print server name : TOS\_SRV (They must correspond with the names to be set for the printer using MAP.)

## Setting up with PCONSOLE

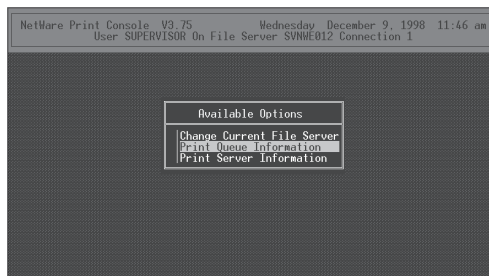
To be performed on the workstation.

### Select File Server

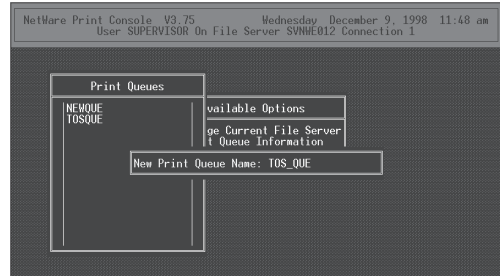
- 1 Log into the NetWare server as the Supervisor.
- 2 Type "PCONSOLE" and press the Enter key.
- 3 Choose Change Current File Server from the Available Options menu.
  - If you don't have to change the File Server, skip to "Creating a print queue."
- 4 A list of file servers is displayed.
- 5 Select the file server on which you want to install the print server and press the Enter key.
  - If the name of the file server you want is not displayed, press the Insert key to get a list of file servers.
- 6 Log in to the file server.
- 7 Press the Esc key to return to the Available Options menu.

### Creating a print queue

- 1 Choose Print Queue Information from the Available Options menu and press the Enter key.
- 2 Print Queues appear.
- 3 Press the Insert key.

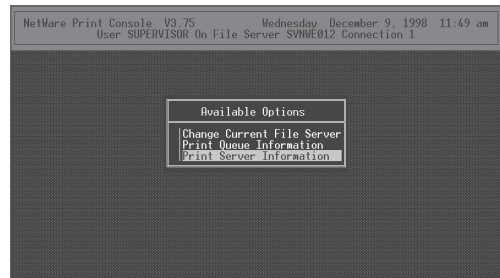


- 4 Enter the name of the print queue at New Print Queue Name and press the Enter key.
- 5 Press the Esc key.
- 6 The display returns to showing the Available Options menu.

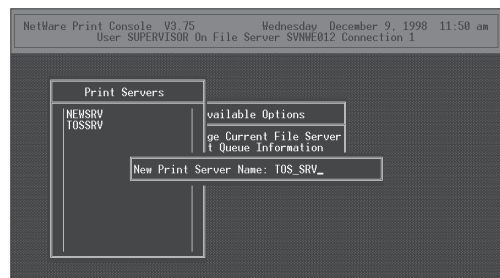


## Creating the print server

- 1 Choose Print Server Information from the Available Options menu and press the Enter key.



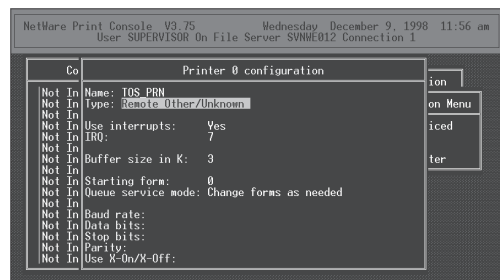
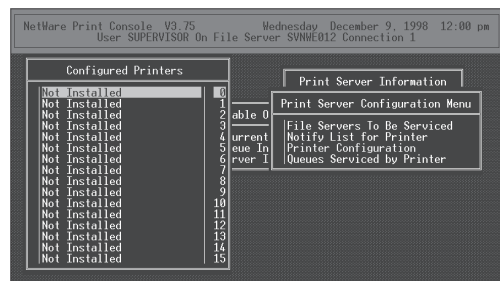
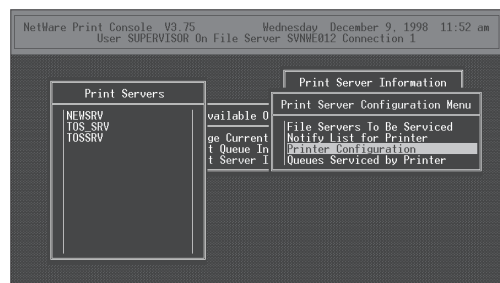
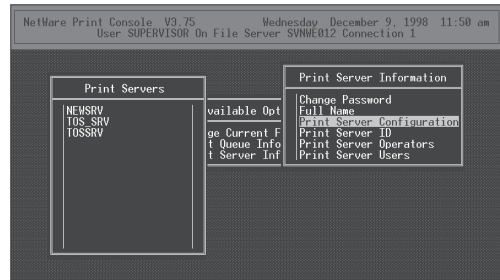
- 2 Print Server appears.
- 3 Press the Insert key.
- 4 Enter the name of the print server at New Print Server Name and press the Enter key.





## Creating the printer

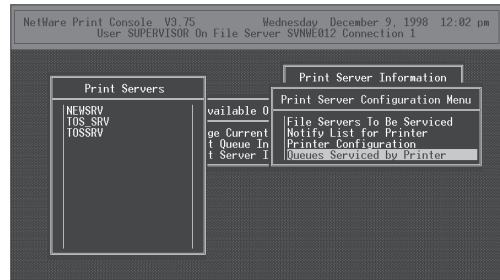
- 1 Choose the newly created print server and press the Enter key.
- 2 The Print Server Information menu appears.
- 3 Choose the Print Server Configuration from the Print Server Information menu and press the Enter key.
- 4 The Print Server Configuration Menu appears.
- 5 Choose the Printer Configuration from the Printer Server Configuration Menu and press the Enter key.
- 6 Configured Printers appears.
- 7 Select a printer number, where Not installed is displayed from the Configured Printers box and press the Enter key.
- 8 "Printer X Configuration" appears. (X is the printer number selected.)
- 9 Enter the printer name and press the Enter key.
- 10 Confirm that the Type field is highlighted, and press the Enter key.



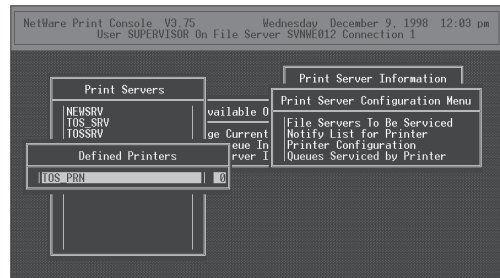


## Assigning a print queue

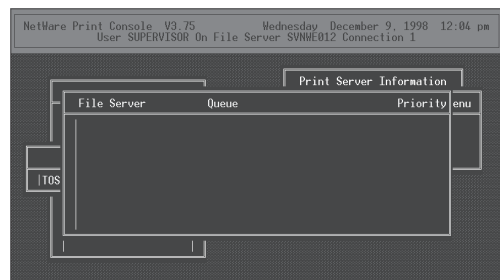
- 1 Choose Queues Serviced by Printer from the "Print Server Configuration" menu.



- 2 Defined Printers appears.
- 3 Select a created printer from Defined Printers and press the Enter key.



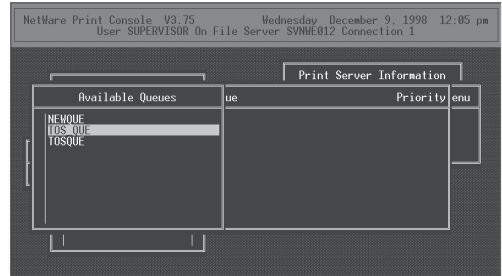
- 4 The queue assigning screen appears.
- 5 Press the Insert key.



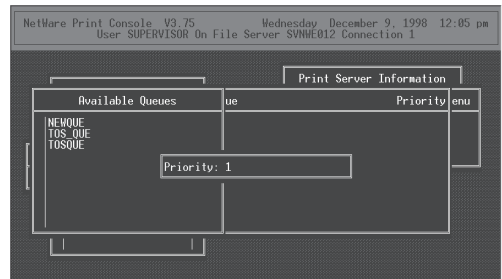
**6 Available Queues appears.**

**7 Select a created queue.**

- Up to 10 queues can be selected. When more than one queue is to be selected, the priority must be decided in advance.

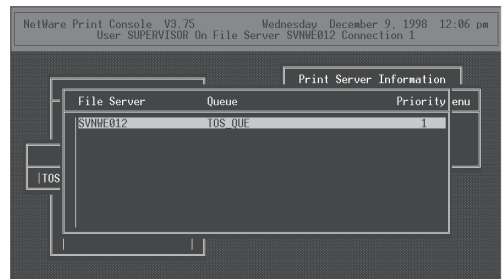


**8 Enter the priority and press the Enter key.**



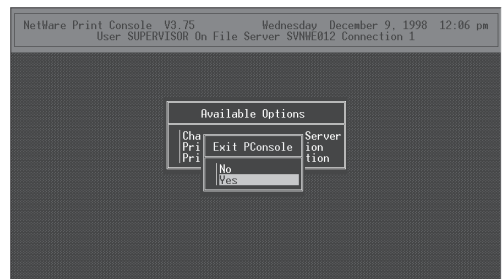
**9 The queue is assigned.**

- When assigning more than one queue, repeat steps 5 through 9.



**10 Press the Esc key six times.**

**11 When Exit PConsole appears, choose Yes and press the Enter key.**



### SUPPLEMENTS:

- Please set up the printer configuration for NetWare using MAP. See “MAP-Setup NetWare at MAP”.

### **Cautions:**

- To install the print server on more than one file server, perform the procedures of NetWare 3.x Set up: Creating the print queue, Creating the print server, Creating the printer, and Assigning a print queue for each file server. You must use the same name and password (if required) for the print server on all file servers. If you use a password, specify it on each file server using the Change Password option on the Print Server Information menu of the PCONSOLE utility.
- When the Print Server Card comes up, it automatically searches for and attaches to the file servers that are no more than four hops and have no more than eight ticks propagation delay. For extremely large or complex networks, this allows a bounded search time on start-up. If the print server must attach to file servers beyond this range, or if you wish to accelerate start-up by eliminating the need to search all servers in the four hops/eight ticks radius, the file servers with which the print server is to operate may be entered into the Print Server Configuration of a primary file server. The primary file server can be any file server within the four hops/eight ticks propagation time limits, but ideally is as close as possible to the print server. Once the print server locates the primary file server and the list of file servers to be serviced, the automatic search is dropped and the print server will go to those file servers listed (and to no others).

# SET UP THE PCONSOLE UTILITY OPTIONS

## Setting Up Notify Options for the Printer

To enable the print server to notify users or user groups if a problem occurs with the printer, set up the Notify options. The print server supports the enhanced NOTIFY options for printers, including informing users when the printer is:

- Jammed, opened, or out of paper
- Requires a manual paper feed or a form change
- Has had an engine failure

- 1** Select **Print Server Information** from the **Available Options** menu.
- 2** Select the **print server** you want to set up the **NOTIFY** options from the **Print Server** menu.
- 3** Select **Configuration** from the **Print Server Information**.
- 4** Choose **Notify List for Printer** on the **Print Server Configuration** menu.
- 5** Select the **printer** from the **Defined Printers** list.
- 6** The screen appears (which is blank for an initial installation).
- 7** Press the **Insert** key.
- 8** View a list of **Notify Candidates**.
- 9** Select the **user or group** from the list.
- 10** Set the **First and Next intervals** in the **Notify Intervals** screen.
  - It is recommended that you use the defaults. The **First** interval is the number of seconds the network waits before it notifies candidates about a print job problem. The **Next** interval specifies how often in seconds candidates are notified. Enter a number for each interval and press the **Enter** key.
- 11** Press the **Esc** key and then after asked to **Save Changes** choose **Yes**. Press the **Esc** key at each screen until you reach the **Print Server Configuration** menu. If you have finished the configuration, press the **Esc** key and then save the changes.

## Primary File Server

To use the primary file server option, use the following procedure on a file server close to the printer:

- 1** Select **File Server To Be Serviced** from the **Print Server Configuration** menu.
- 2** The list of the file servers to be serviced by the primary file server is displayed.
- 3** Press the **Insert** key.
- 4** The **Available File Servers** list is displayed.
- 5** Select the name of the file server to be serviced and press the **Enter** key.
- 6** The selected file server is added to the **File Servers To Be Serviced** list.
- 7** Press the **Esc** key to return to the menu.
- 8** Install the **Print Server Card** on each of the primary file servers.

## Preferred File Servers

The Preferred File Server can be identified within the Network Interface Card itself. The registration of the preferred file server is offered at MAP. If a preferred file server is listed, the Network Interface Card will attach to this identified file server instead of initiating the automatic search for file servers. If the preferred file server is also a primary file server (for example, has file servers listed under file servers to be serviced), the Network Interface Card will connect directly to these file servers.

The Preferred File Server is only applicable to bindery-based queues. Entering it has no effect on NDS queues. For registering the preferred file server to the NIC, see "MAP - NetWare Setup."





# SETUP THE PRINT SERVER WITH NetWare 4.x

# SETUP IN NDS MODE

When using NetWare 4.x and Windows 95/98/Me/NT/2000/XP, this machine is set up using the NetWare Administrator. When setting up from MS-DOS, use PCONSOLE.

**NOTE:**

Set up in the print server mode. The Remote Printer Mode cannot be used.

## Set-up Example

The following example is performed under the conditions stated below. Check the conditions of the environment you are using.

<Server>

- NetWare server name : NWSRV
- Directory tree name : ORG (They must correspond with the names to be set for the printer using MAP or NetPanel.)
- Print Server Context : ORG (They must correspond with the names to be set for the printer using MAP or NetPanel.)

<Contents to be set>

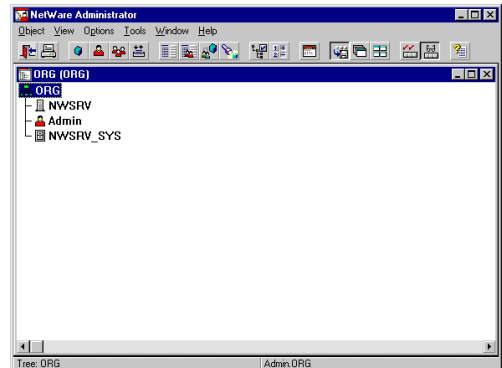
Name the following as desired.

- Print queue name : TOS\_QUE
- Printer name : TOS\_PRN
- Print server name : TOS\_SRV (They must correspond with the names to be set for the printer using MAP or NetPanel.)

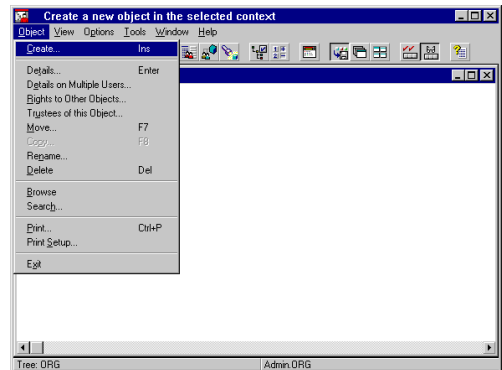


## Creating a print queue

1 Click on the container object to create the printer.

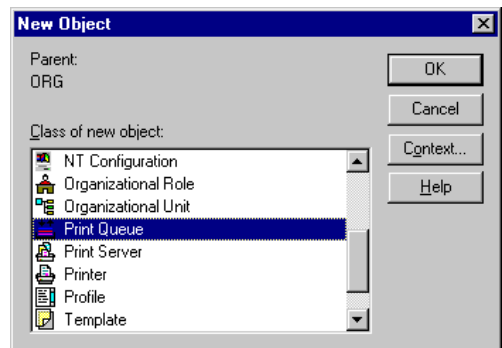


2 Choose Create in the Object menu.

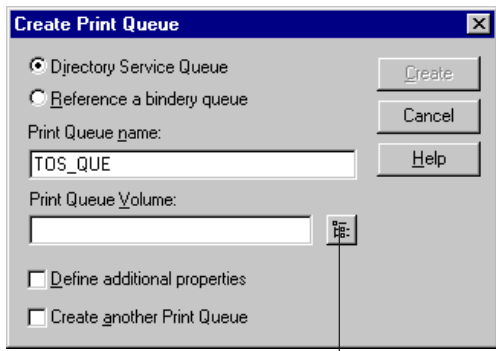


3 The Class of New Object window appears.

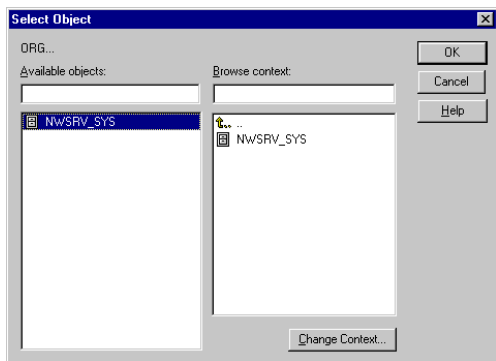
4 Choose Print Queues and click on [OK].



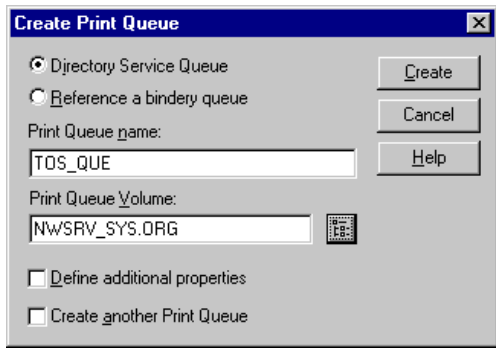
- 5 Create Print Queues appears.
- 6 Enter the name of the print queue at Print Queue Name.
- 7 Click on Browse of Print Queue Volume (indicated by "A" in the figure at right).
- 8 The Select Object window appears.
- 9 Select a volume to create a print queue from the Available Object list and click on [OK].



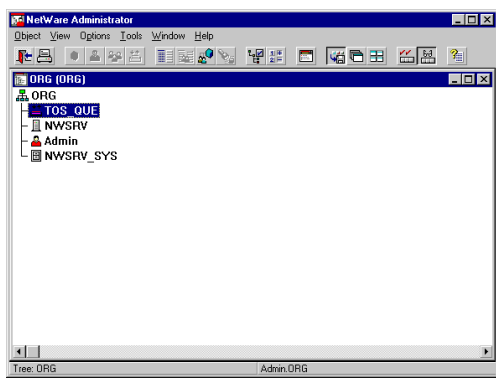
A



- 10 Click on [Create].

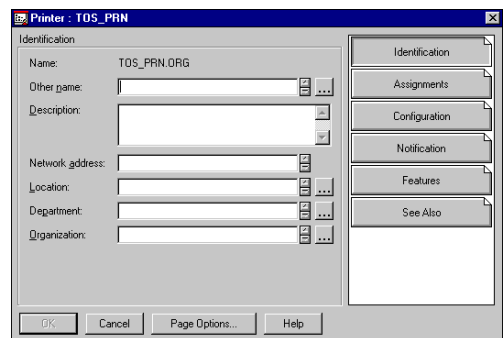
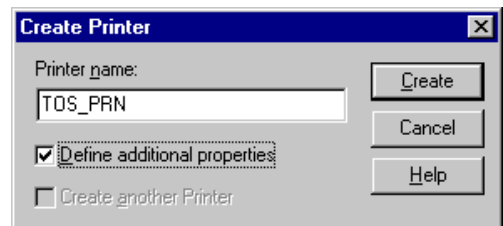
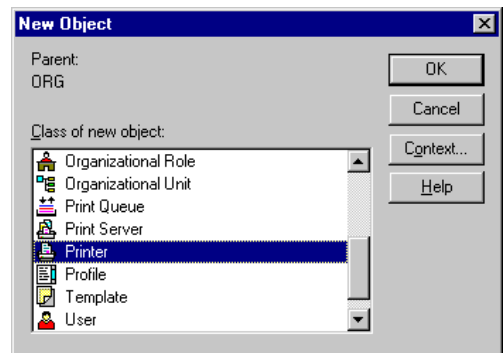


- 11 The print queue is created.



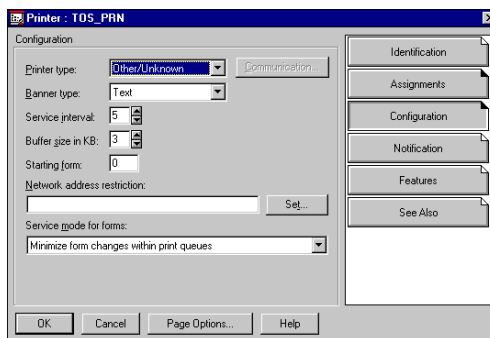
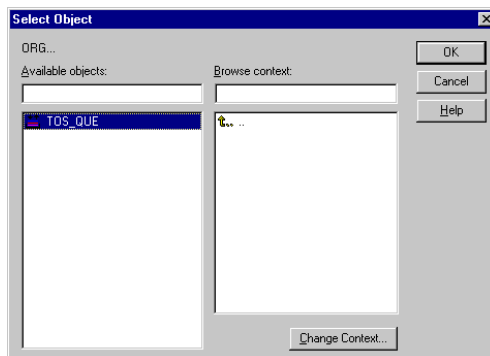
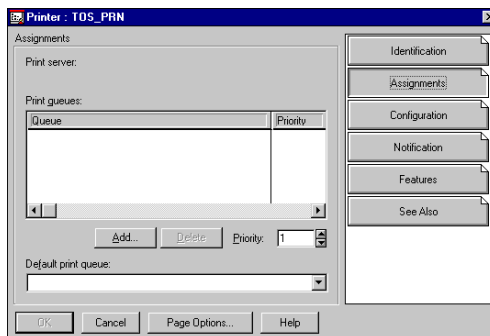
## Creating the printer

- 1 Click on the container object to create the printer.
- 2 Choose Create in the Object menu.
- 3 The Class of New Object window appears.
- 4 Choose Printer and click on [OK].
- 5 The Create Printer window appears.
- 6 Enter the name of the printer under Printer Name.
- 7 Turn on the check box for Define additional properties and click on [Create].
- 8 The details of the created printer are displayed.



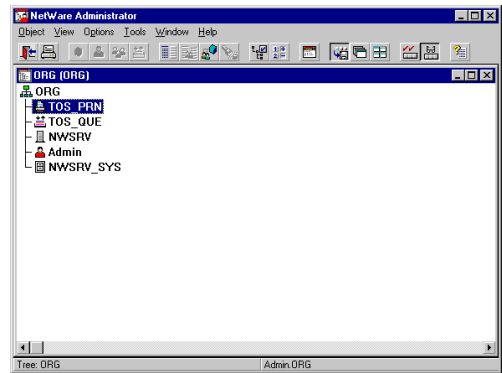
## Assigning the print queue

- 1 Click on [Assignments].
- 2 The screen switches to Assignments.
- 3 Click on [Add].
- 4 The Select Object window appears.
- 5 Select a created queue from Object and click on [OK].
- 6 Click on [Configuration].
- 7 The screen switches to Configuration.
- 8 Click on “▼” of Printer Type and choose Other/Unknown.



9 Click on [OK].

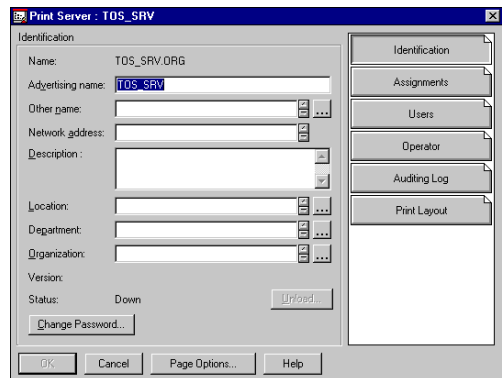
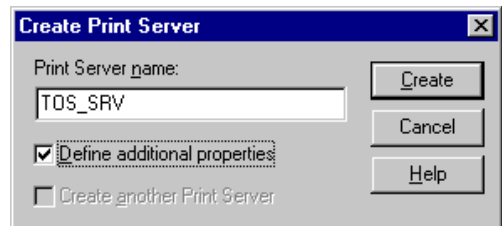
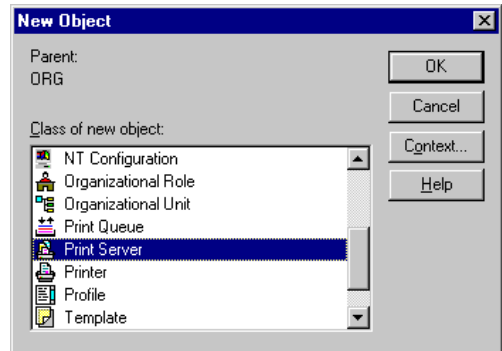
10 The printer is created.





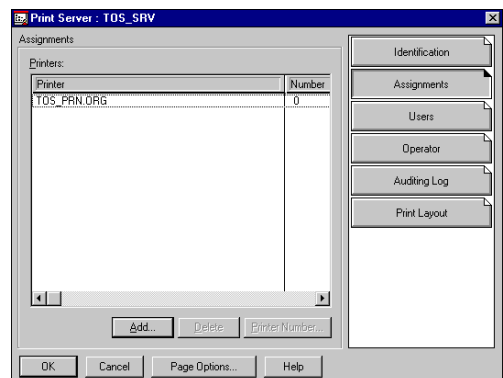
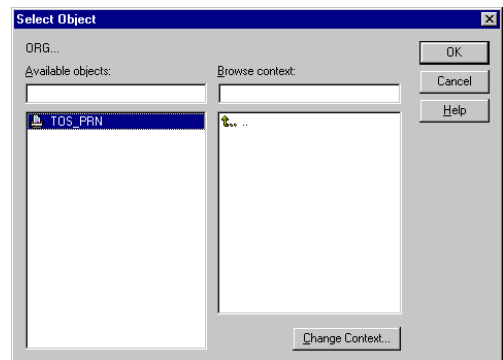
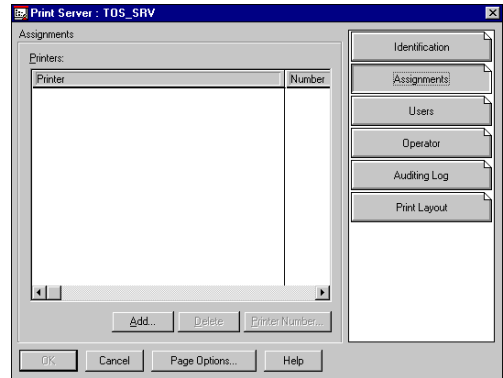
## Creating the print server

- 1 Click on the container object to create the printer.
- 2 Choose Create in the Object menu.
- 3 The Class of New Object window appears.  
Choose Print Server and click on [OK].
- 4 The Create Print Server window appears.
- 5 Enter the name of the print server under Print Server Name.
- 6 Turn on the check box for Define additional properties and click on [Create].
- 7 The details of the created print server are displayed.

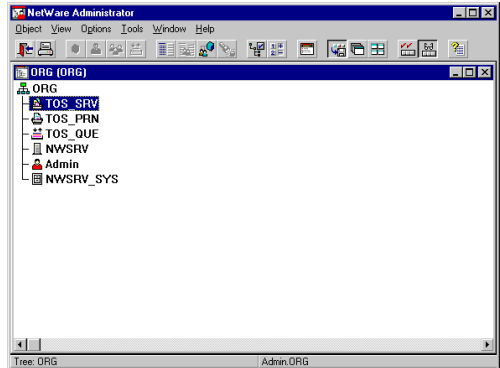


## Allocating the printer

- 1 Click on [Assignments].
- 2 The screen switches to Assignments.
- 3 Click on [Add].
- 4 The Select Object window appears.
- 5 Select a created printer from the Available Object list and click on [OK].
- 6 The printer name is displayed under Printer.
- 7 Click on [OK].



## 8 The print server is created.



### SUPPLEMENTS:

- Please set up the printer configuration for NetWare NDS mode using MAP. See "MAP-Setup NetWare at MAP".
- You can also set up the printer configuration for NetWare NDS mode using NetPanel. See "NETPANEL-Printer Management-Novell Configure".

# SETUP IN BINDERY MODE

The print server is set up in the bindery mode of NetWare 4.x. It is set in the bindery mode when you want to preserve the environment of the existing NetWare 3.x or to allow clients of NetWare 3.x to use the print server.

## Confirmation before setting up

Before using the print server in the bindery mode, bindery context must be stored in the NetWare 4.x server. Check if bindery context exists there. For the bindery mode, refer to the Operator's Manual for NetWare.

### Confirm Bindery Context

To confirm that the server has a Bindery Context, perform the following steps by through the console prompt at the NetWare server.

- 1** Type load install and press Enter key.
- 2** Select NCF Files Options from the menu.
- 3** Select Edit AUTOEXEC.NCF from the menu.
- 4** View the screen to Edit AUTOEXEC.NCF file.
- 5** Search the file to see if you have a statement similar to the following included:  
**SET BINDERY CONTEXT=0U=ENG**
  - If the Bindery Context is "SET BINDERY CONTEXT=0U=ENG," that means the server has a Bindery.
  - When you do not have such a statement, add the statement and save it by pressing F10.
- 6** Press Alt+F10 to complete the confirmation.
  - If the new statement is added, the definition in the file takes effect when the server is shut down and then restarted. If you want the Bindery Context applied frequently, type the new statement by the console prompt and press Enter.

## Set-up Example

The following example is performed under the conditions stated below. Check the conditions of the environment you are using.

### <Server>

- NetWare server name : NWSRV (They must correspond with the names to be set for the printer using MAP.)
- Directory tree name : ORG

### <Contents to be set>

Name the following as desired.

- Print queue name : TOS\_QUE
- Printer name : TOS\_PRN
- Print server name : TOS\_SRV (They must correspond with the names to be set for the printer using MAP.)

# Setting up with PCONSOLE

## Starting PCONSOLE

Perform this on the workstation.

### 1 Log in to the NetWare server as an Administrator.

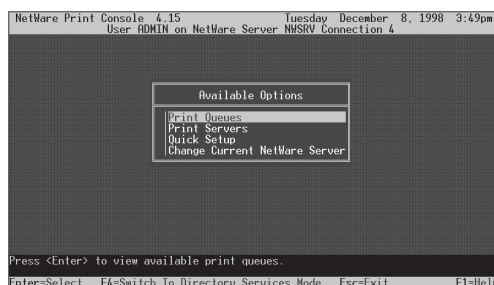
- To use the bindery service, log in through bindery connection.

### 2 Type "PCONSOLE" at the DOS prompt and press the Enter key.

- When you have logged into the NDS mode, press the F4 key to switch to the bindery mode.

## Creating a print queue

### 1 Choose Print Queues and press the Enter key.



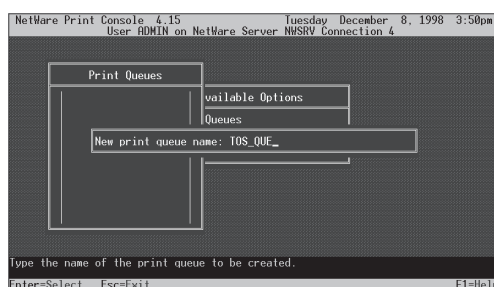
### 2 Print Queues appears.

### 3 Press the Insert key.

### 4 Enter the print queue name at New Print Queue Name and press the Enter key.

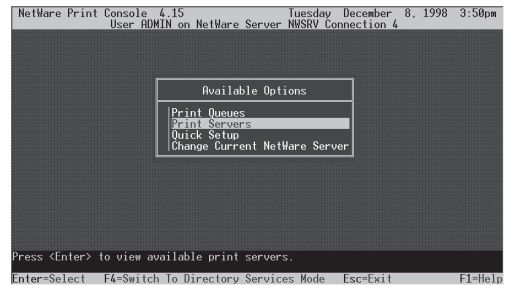
### 5 Press the Esc key.

### 6 The display returns to showing the Available Options menu.



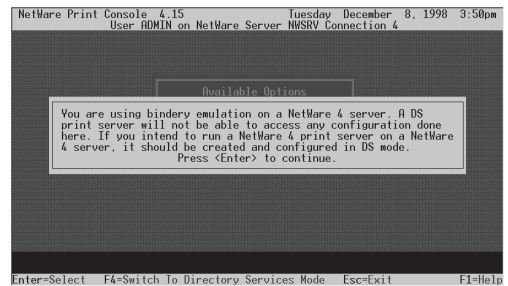
## Creating the print server

- 1 Choose **Print Server** from the **Available Options** menu and press the **Enter** key.



- 2 The message as shown in the figure at right appears.

- 3 Press the **Enter** key.

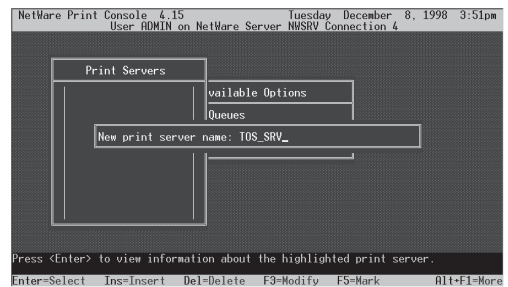


SETUP THE  
PRINT SERVER  
WITH NetWare 4x

- 4 **Print Server** appears.

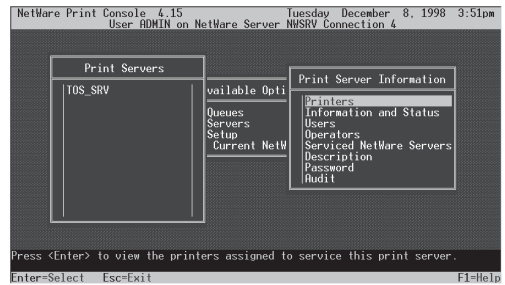
- 5 Press the **Insert** key.

- 6 Enter the print server name at **New Print Server Name** and press the **Enter** key.

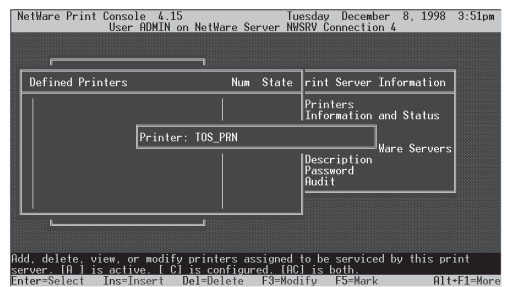


## Creating the printer

- 1 Choose the created print server and press the Enter key.
- 2 The Print Server Information menu appears.
- 3 Choose Printer from the Print Server Information menu and press the Enter key.



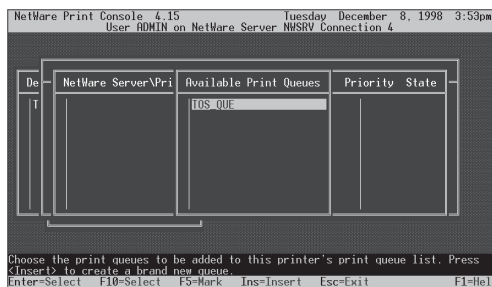
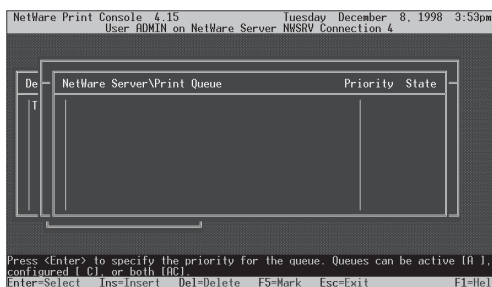
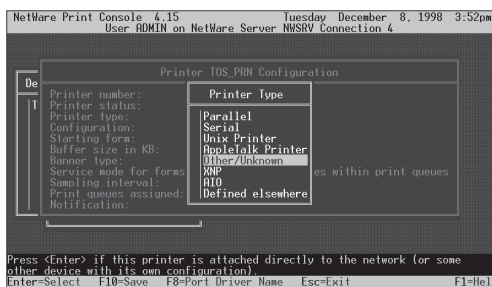
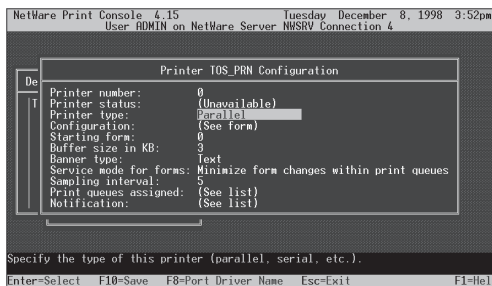
- 4 Defined Printers appears.
- 5 Press the Insert key.
- 6 Enter the printer name at Printer and press the Enter key.





## Assigning the print queue

- 1 Select the created printer and press the Enter key.
- 2 Printer XXXXX configuration (XXXXX is the name of the printer created) appears.
- 3 Enter printer number at Printer No.
- 4 Highlight the Parallel at Printer Type and press the Enter key.
- 5 Choose Other/Unknown from Printer Type and press the Enter key.
- 6 Choose See list of Assign Print Queues and press the Enter key.
- 7 NetWare Server\Print Queue appears.
- 8 Press the Insert key.
- 9 Select the created queue from Available Print Queues and press the Enter key.
  - Up to 10 queues can be selected. When more than one queue is to be selected, the priority must be decided in advance.



**10** Enter the priority and press the Enter key.

**11** The queue is assigned.

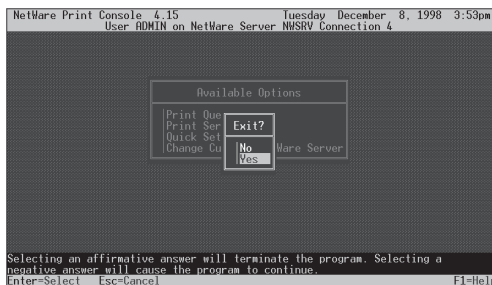
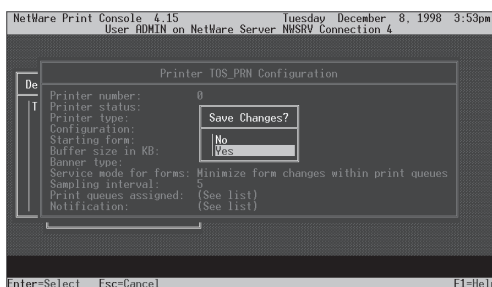
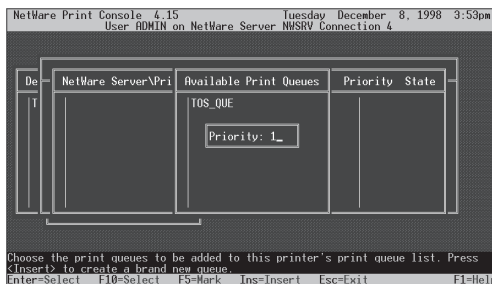
- When assigning more than one queue, repeat steps 5 through 9.

**12** Press the Esc key twice.

**13** When **Save Changes?** appears, choose **Yes** and press the Enter key.

**14** Press the Esc key four times.

**15** When **Exit?** appears, choose **Yes** and press the Enter key.



## SUPPLEMENTS:

- Please set up the printer configuration for NetWare Bindery mode using MAP. See "MAP-Setup NetWare at MAP".

# SET UP THE PCONSOLE UTILITY OPTIONS

## Setting Up Notify Options for the Printer

You can specify users or groups of users that are notified if a problem occurs when a print job is sent to the printer. If the print server is servicing queues on multiple file servers, you must set up a NOTIFY list for each file server. To set up NOTIFY, use the following procedures:

- 1** Start the PCONSOLE utility.
- 2** Select “Print Servers” in the “Available Option” menu.
- 3** When a message appears, press the [Enter] key.
- 4** Select print server in the “Print Server” menu.
- 5** Select “Printers” in the “Print Server Information” menu.
- 6** Select printer in the “Defined Printers” menu.
- 7** Select “Notification” in the “Printer XXXX Configuration” menu ( XXXXX the name of the printer ).
- 8** Select server in “NetWare Server/Object to be Notified/Object Type/First/Next/State”, and then press the [Enter] key.
- 9** The Notify Intervals screen displays.
- 10** Select the user or user group from the Notify Candidates screen.
- 11** The Notify Intervals screen displays.
- 12** Enter a number for the First and Next intervals for notifying users about printer problems and press Enter key.
  - The First interval is the number of seconds the network waits before it notifies users about a print job problem.
  - The Next interval specifies how often in seconds users are notified.
- 13** Press the Esc key and save all changes.
- 14** Press the Esc key until you see the prompt to exit PCONSOLE. Select Yes and then press the Enter key.



# SETUP THE PRINT SERVER WITH NetWare 5.x

# SETUP IN NDS MODE

When using NetWare 5.x and Windows 95/98/Me/NT/2000/XP, set up the e-STUDIO16/20/25 using NetWare Administrator.

## NOTES:

- Set up in the print server mode. The remote printer mode cannot be used.
- The PCONSOLE is not available for NetWare 5.x. Therefore, the print queue cannot be created in the bindery mode.
- The e-STUDIO16/20/25 does not support the NDPS mode of NetWare 5.x.

## Set-up Example

The following example is performed under the conditions stated below. Check the conditions of the environment you are using.

<Server>

- NetWare server name : NWSRV
- Directory tree name : ORG (They must correspond with the names to be set for the printer using MAP or NetPanel.)
- Print Server Context : ORG (They must correspond with the names to be set for the printer using MAP or NetPanel.)

<Contents to be set>

Name the following as desired.

- Print queue name : TOS\_QUE
- Printer name : TOS\_PRN
- Print server name : TOS\_SRV (They must correspond with the names to be set for the printer using MAP or NetPanel.)

# Setting up NetWare Administrator

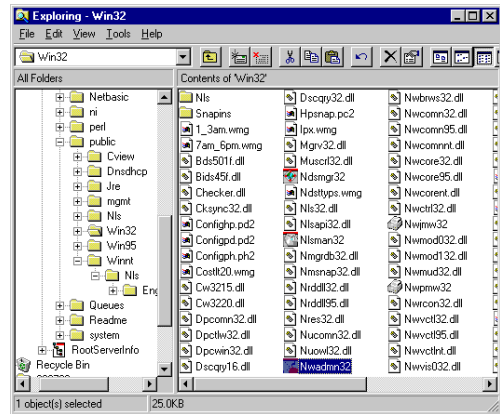
## Starting NetWare Administrator

This is performed on the workstation.

**1** Log in to the NetWare server as an Administrator.

**2** Start NetWare Administrator.

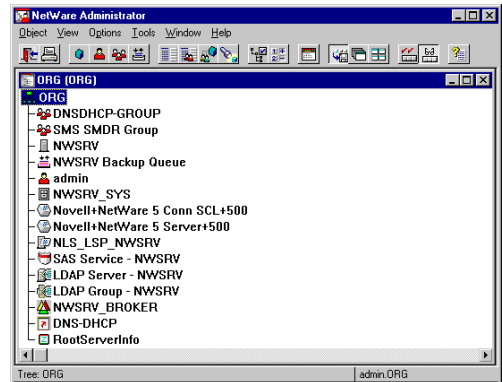
- NetWare Administrator is found in the Public\Win32 directory of the SYS volume. Open the Win32 directory with Explorer and start Nwadmin3x.exe.
- If you are using Intranet Ware on Windows 95, Windows 98, or Windows Me, start Nwadmin95.exe found in the Win95 directory of the Public directory.



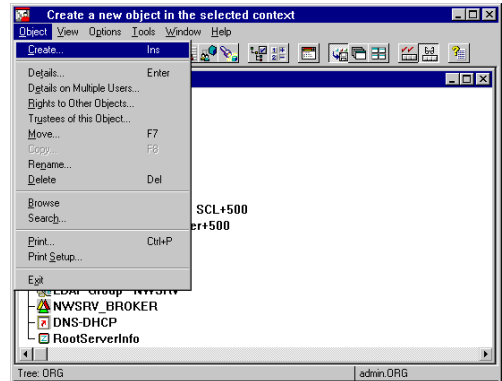
SETUP THE  
PRINT SERVER  
WITH NetWare 5.x

## Creating a print queue

1 Click on the container object to create the printer.

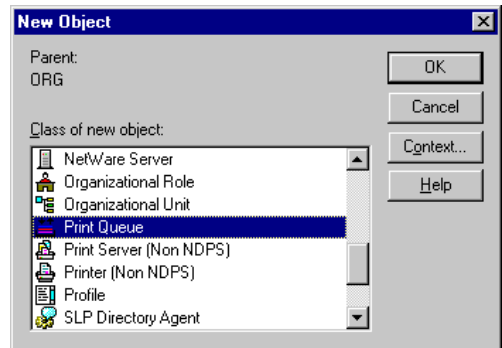


2 Choose Create in the Object menu.



3 The Class of New Object window appears.

4 Choose Print Queues and click on [OK].

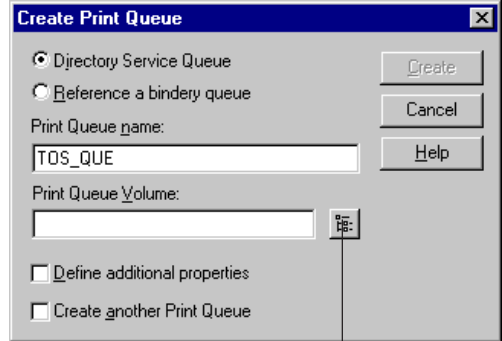




**5** Create Print Queues appears.

**6** Enter the name of the print queue under Print Queue Name.

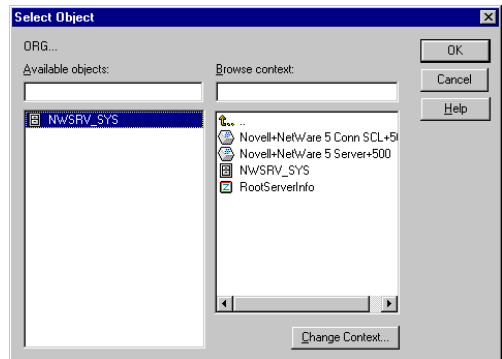
**7** Click on Browse Print Queue Volume (indicated by “A” in the figure at right).



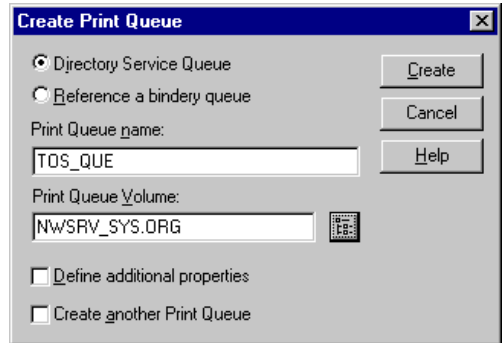
A

**8** The Select Object window appears.

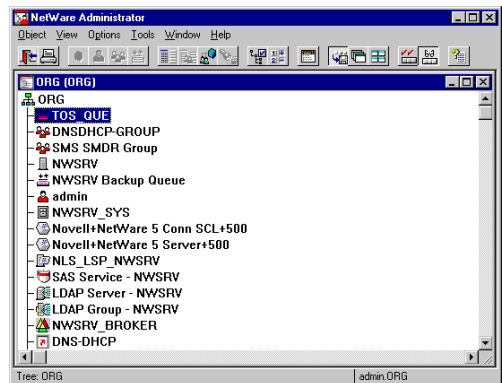
**9** Select a volume to create a print queue from the Available Object list and click on [OK].



**10** Click on [Create].

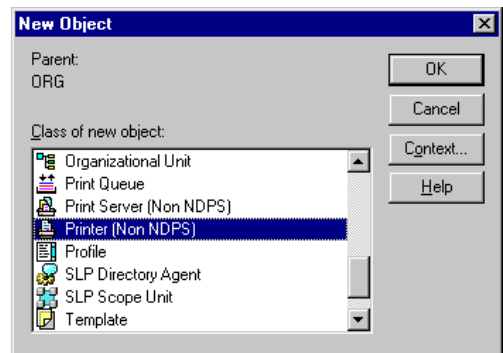


**11** The print queue is created.

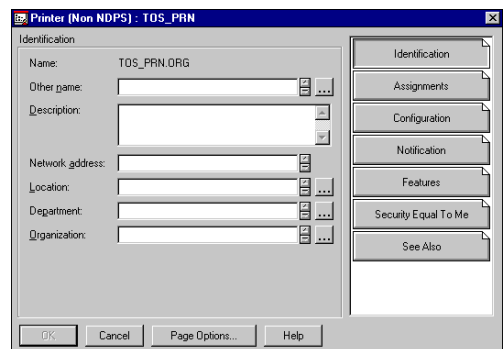
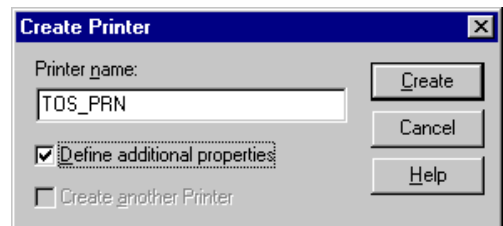


## Creating the printer

- 1 Click on the container object to create the printer.
- 2 Choose Create in the Object menu.
- 3 The Class of New Object window appears.
- 4 Choose Printer and click on [OK].

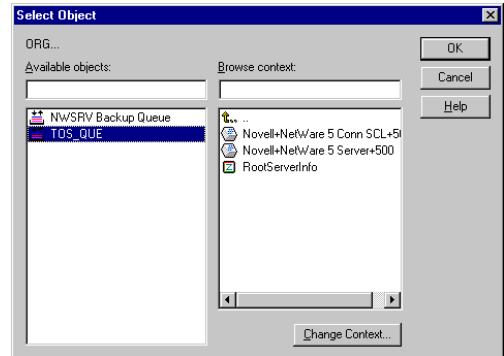
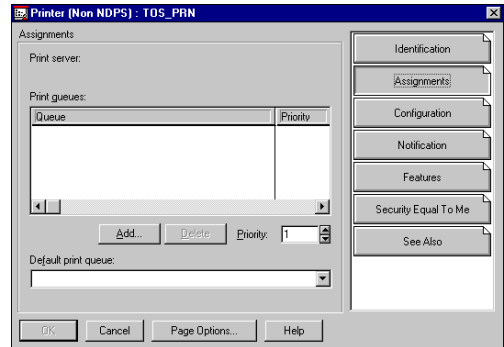


- 5 The Create Printer window appears.
- 6 Enter the name of the printer under Printer Name.
- 7 Turn on the check box for Define additional properties and click on [Create].
- 8 The details of the created printer are displayed.

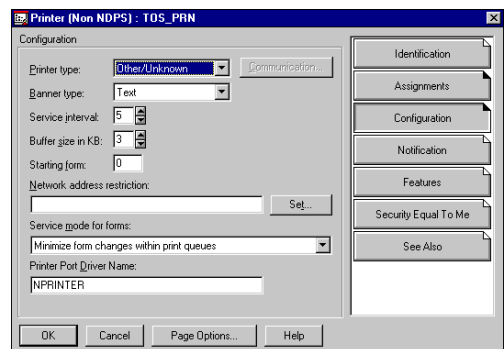


## Assigning the print queue

- 1 Click on [Assignments].
- 2 The screen switches to Assignments.
- 3 Click on [Add].
- 4 The Select Object window appears.
- 5 Select a created queue from Object and click on [OK].
- 6 Click on [Configuration].
- 7 The screen switches to Configuration.
- 8 Click on “▼” of Printer Type and choose Other/Unknown.

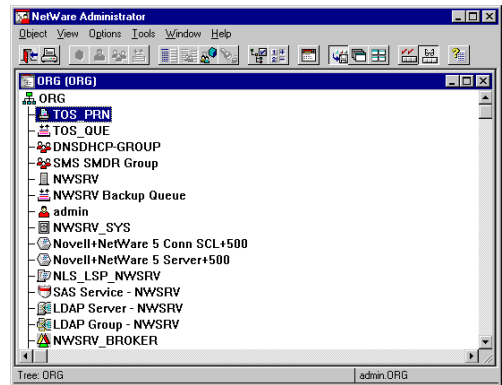


SETUP THE  
PRINT SERVER  
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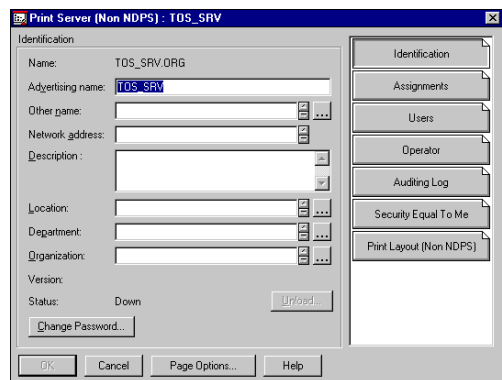
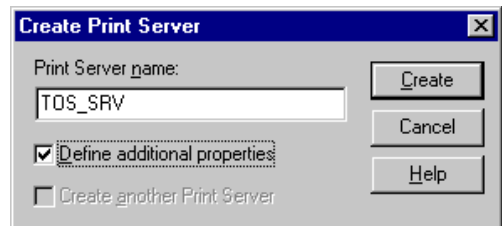
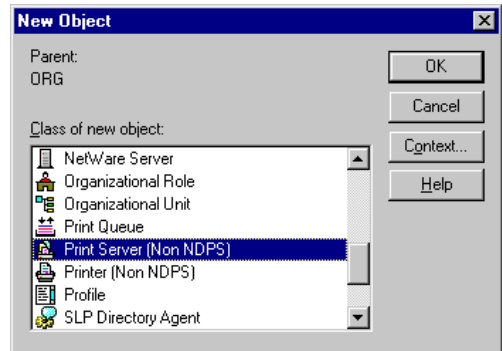
9 Click on [OK].

10 The printer is created.



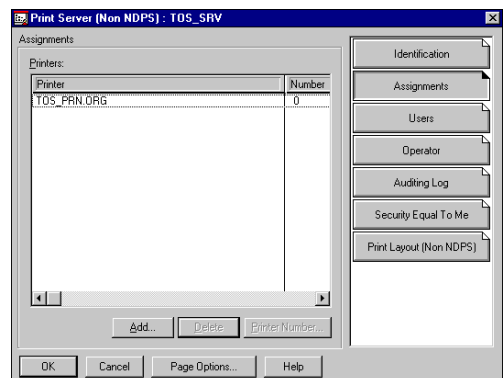
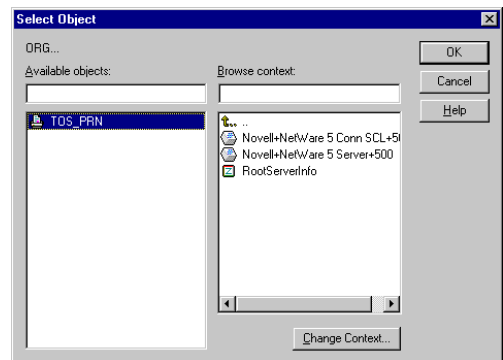
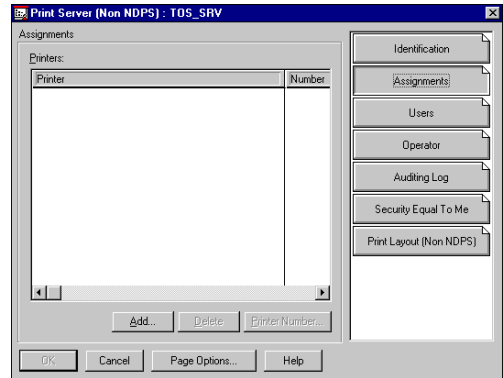
## Creating the print server

- 1 Click on the container object to create the printer.
- 2 Choose Create in the Object menu.
- 3 The Class of New Object window appears.  
Choose Print Server and click on [OK].
- 4 The Create Print Server window appears.
- 5 Enter the name of the print server under Print Server Name.
- 6 Turn on the check box for Define additional properties and click on [Create].
- 7 The details of the created print server are displayed.

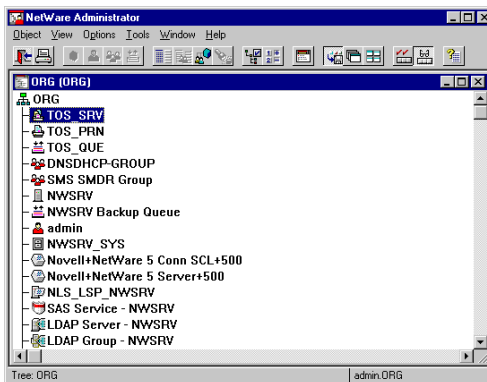


## Allocating the printer

- 1 Click on [Assignments].
- 2 The screen switches to Assignments.
- 3 Click on [Add].
- 4 The Select Object window appears.
- 5 Select a created printer from the Available Object list and click on [OK].
- 6 The printer name is displayed under Printer.
- 7 Click on [OK].



## 8 The print server is created.



### SUPPLEMENTS:

- Please set up the printer configuration for NetWare NDS mode using MAP. See "MAP-Setup NetWare at MAP".
- You can also set up the printer configuration for NetWare NDS mode using NetPanel. See "NETPANEL-Printer Management-Novell Configure".





# SETUP THE PRINT SERVER WITH Windows NT4.0/2000

# Windows NT PRINT SERVER SETUP

Create a shared printer on the Windows NT server so that clients can install the printer driver from Windows NT server and print a document through the Windows NT server.

When using Windows NT as the print server, utilize the Microsoft TCP/IP Printing services.

## Preparation for Setting up

Check the following before set up:

- The e-STUDIO16/20/25 and the computer are connected to the network.
- The printer is powered up.
- The printer has been configured with an IP address.
- The TCP/IP protocol and Microsoft TCP/IP Printing Service are installed on Windows NT.

### Confirming the TCP/IP Print Services

**1** Click on [Start] and choose [Settings].

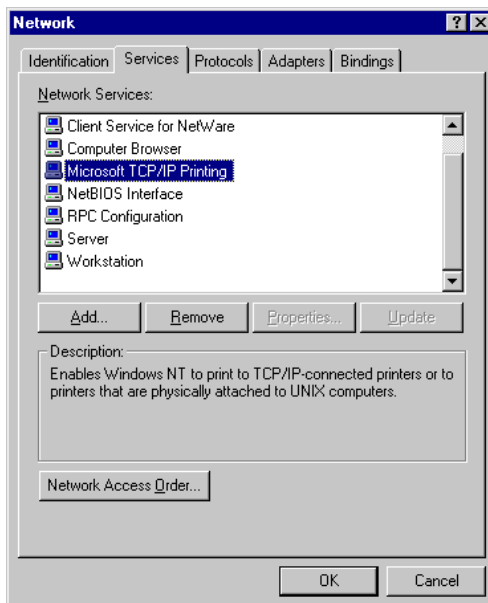
**2** Choose [Control Panel].

**3** Double-click on [Network].

**4** Click on the Services tab.

**5** Check that “Microsoft TCP/IP Printing” is displayed on Network Services. If not, install it.

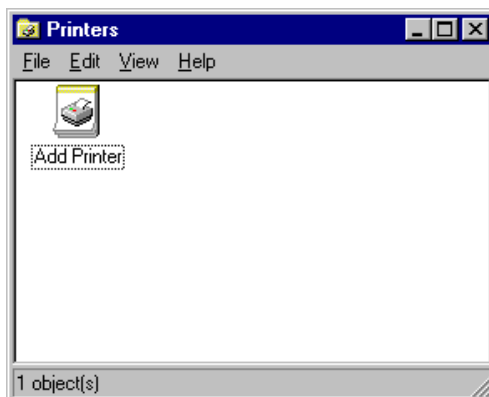
- For installation procedures, refer to the Operator’s Manual for Windows NT and Help.



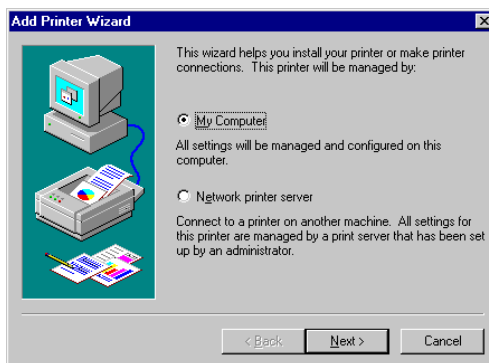
## Creating a Shared Printer

The printer created on the Windows NT server serves as a print server.

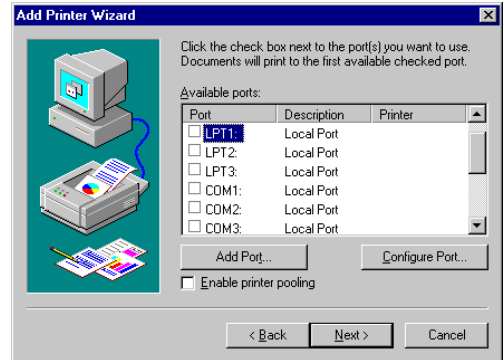
- 1 Log on to Windows NT as a user with "Administrator" or "Power User" group privileges.
- 2 Click on [Start] and choose [Settings].
- 3 Choose [Printers] to open the Printer Folder.
- 4 Double-click on [Add Printer] to start the Printer Wizard.



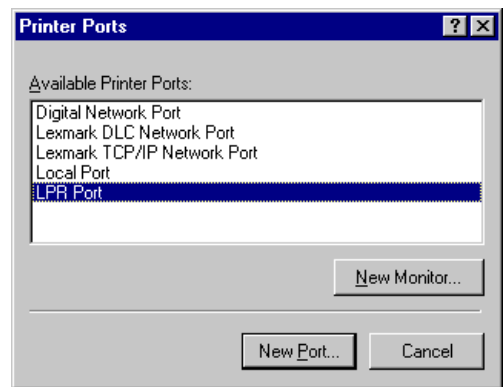
- 5 Check that "My computer" is selected and click on [Next].



6 Click on [Add Port...].

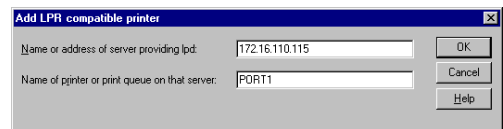


7 Choose “LPR Port” from Available Printer Ports.



8 Click on [New Port...].

9 Enter the IP address for the printer at “Name or address of server providing lpd”.

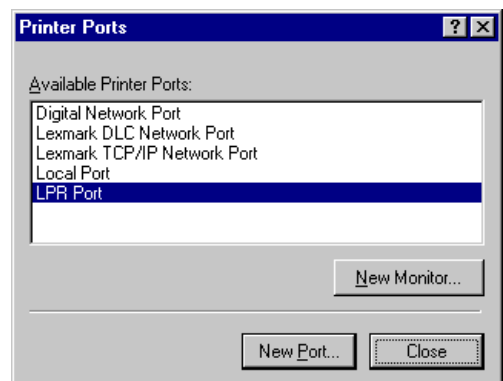


10 Type “PORT1” at Name of printer or print queue on that server.

- “PORT1” must be entered in capital letters.

11 Click on [OK].

12 Click on [Close].



**13** The IP address of the printer is added to the list of “Available ports” in the Add Printer Wizard.

**14** Verify that the check box for the added port (IP address of the printer) is turned on, then click on [Next].

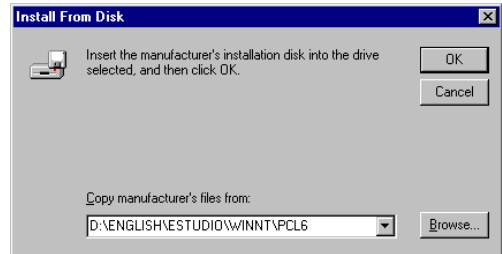
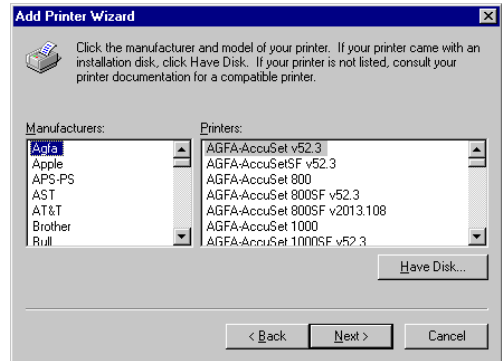
**15** Click on [Have Disk...].

**16** Insert the printer driver CD-ROM.

**17** Specify the folder that contains drivers for Windows NT4.0 at “Copy manufacturer’s files from”.

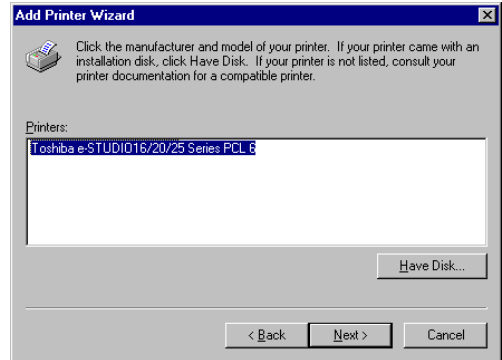
- When the PCL6 driver is installed, enter “D:\ENGLISH\ESTUDIO\WINNT\PCL6” (Where the CD-ROM drive is the D drive.)
- When the PS driver is installed, enter “D:\ENGLISH\ESTUDIO\WINNT\PS” (Where the CD-ROM drive is the D drive.)

**18** Click on [OK].



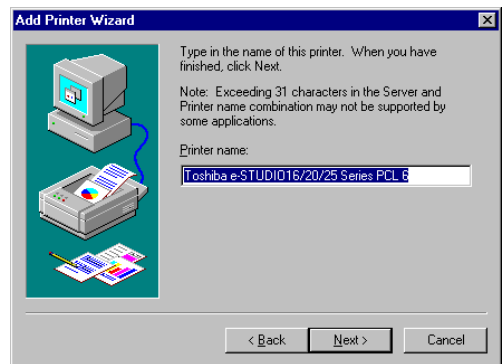
**19** Select the printer driver to be installed.

**20** Click on [Next].



**21** Change Printer name if necessary, and click on [Next].

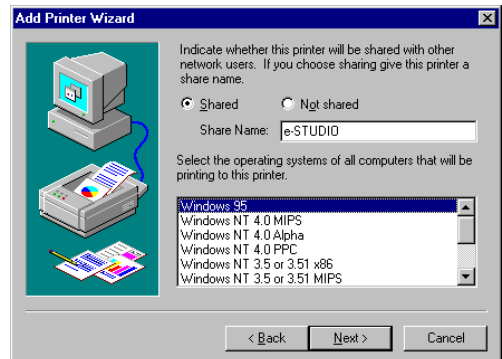
- When any other printer drivers have been already installed, select whether or not this printer will be used as the default printer. If [Yes], this printer will be displayed first when printing applications.



**22** Check on "Shared".

- Rename the "Share Name" if required.

**23** Select "Windows 95" from the list.



**24** Click on [Next].

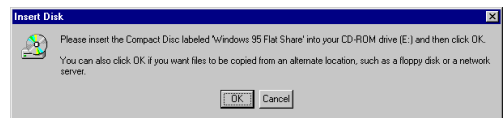
## 25 Choose Yes or No as necessary, and click on [Finish].

- The Insert Disk screen appears.



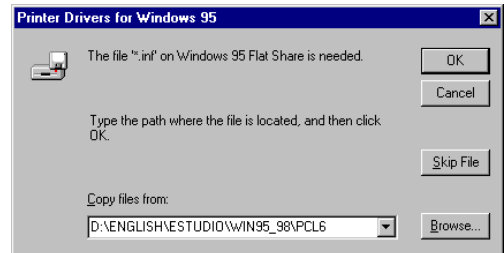
## 26 Click on [OK].

- The Printer Driver for Windows 95 screen appears.



## 27 Specify the folder that contains drivers for Windows 95/98/Me at "Copy files from".

- When the PCL6 driver is installed, enter "D:\ENGLISH\ESTUDIO\WIN95\_98\PCL6" (Where the CD-ROM drive is the D drive.)
- When the PS driver is installed, enter "D:\ENGLISH\ESTUDIO\WIN95\_98\ESTUDIO\PS" (Where the CD-ROM drive is the D drive.)

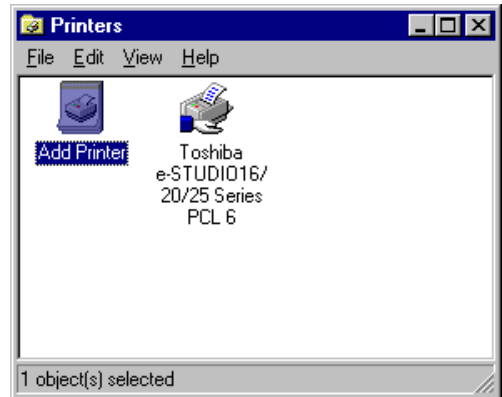


### SUPPLEMENT:

Windows NT can save the printer drivers for Windows 95/98/Me, so that the Windows 95/98/Me clients can install the printer driver from the Windows NT server without the CD-ROM.

## 28 Click on [OK].

## 29 The printer is created.



### **SUPPLEMENT:**

To install the printer driver to the client computer, see “INSTALLING THE PRINTER DRIVER for Windows - INSTALLATION BY ADDING A PRINTER.”



# Windows 2000 PRINT SERVER SETUP

Create a shared printer on the Windows 2000 server so that the clients can print a document through the Windows 2000 server.

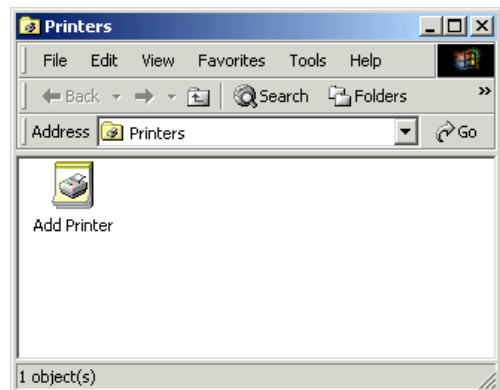
## SUPPLEMENT:

You can also set up the print server on Windows XP by following descriptions.

## Creating a Shared Printer

The printer created on the Windows 2000 server serves as a print server.

- 1 Log on to Windows 2000 as a user with "Administrator" or "Power User" group privileges.
- 2 Click on [Start] and choose [Settings].
- 3 Choose [Printers] to open the Printer Folder.
- 4 Double-click on [Add Printer] to start the Printer Wizard.

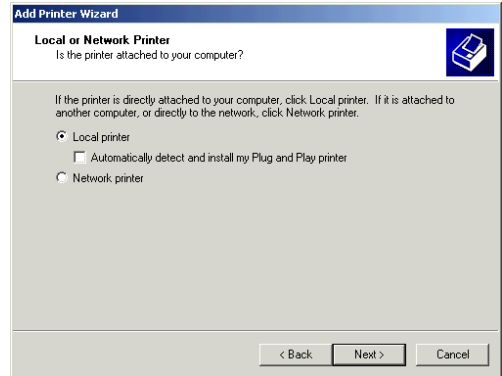


- 5 Click on [Next].



## 5 Select “Local printer” or “Network printer” according to the type of printing mode.

- When the machine is connected in the local area network with the TCP/IP protocol, select “Local printer”. Printing can be performed using the TCP/IP Printing. See “**When Using the TCP/IP Printing**” and continue the installation.
- When the machine is connected to the Internet or Intranet, select “Network printer”. Printing can be performed using the IPP, *Internet Printing Protocol*. See “**When Using the IPP**” and continue the installation.

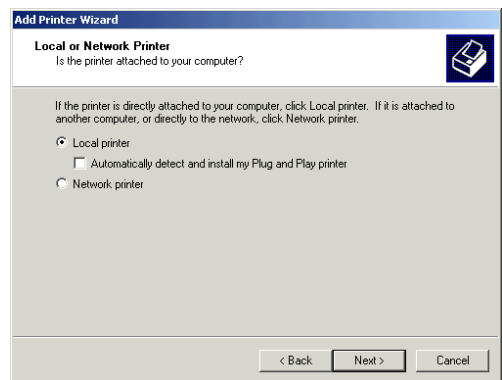


## When Using the TCP/IP Printing

When the printer is connected to the local area network with TCP/IP, printing can be performed by designating the TCP/IP port.

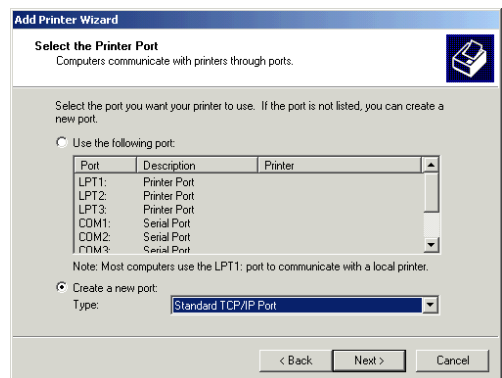
## 6 Select “Local printer”.

- Check off “Automatically detect and install my Plug and Play printer”.

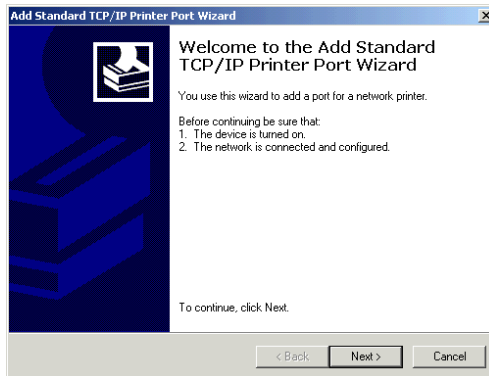


## 7 Select “Create a new port” and select “Standard TCP/IP Port” at “Type”, then click on [Next].

- The Add Standard TCP/IP Printer Port Wizard appears.

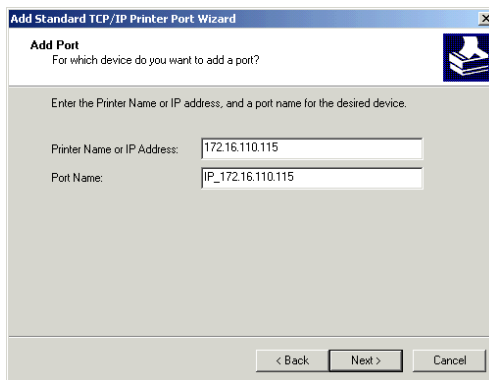


**8** Click on [Next].



**9** Enter the IP address of this machine at "Printer Name or IP Address".

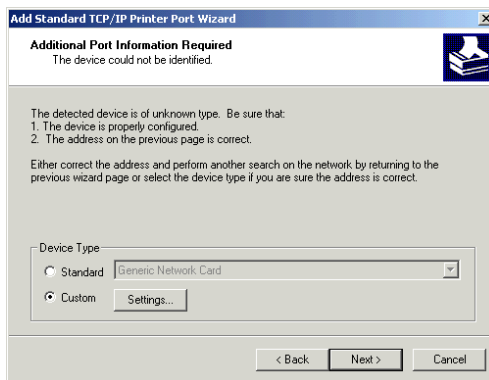
- The port name is automatically entered at "Port Name". If required, rename the port name.



**10** Click on [Next].

**11** Select "Custom" and click on [Settings...].

- The Configure Standard TCP/IP Port Monitor screen appears.



## 12 Select “Raw” or “LPR” under “Protocol”.

- Raw: The default data type for clients other than Windows 2000. When printing in the Raw type, the entire process of preparing the print job is done on the client computer.
  - LPR: Printing is done through the LPD service. When printing in the LPR type, the process of preparing the print job is done on the print server.
- 
- When “Raw” is selected, go to Step 13.
  - When “LPR” is selected, go to Step 14.

Configure Standard TCP/IP Port Monitor

Port Settings

Port Name: IP\_172.16.110.115

Printer Name or IP Address: 172.16.110.115

Protocol

Raw  LPR

Raw Settings

Port Number: 9100

LPR Settings

Queue Name:

LPR Byte Counting Enabled

SNMP Status Enabled

Community Name: public

SNMP Device Index: 1

OK Cancel

## 13 Enter “10001” at “Port Number” and check on “SNMP Status Enabled”.

- “public” is automatically entered for the “Community Name”, and “1” is entered at the “SNMP Device Index”. Do not change them.
- Go to Step 15.

Configure Standard TCP/IP Port Monitor

Port Settings

Port Name: IP\_172.16.110.115

Printer Name or IP Address: 172.16.110.115

Protocol

Raw  LPR

Raw Settings

Port Number: 10001

LPR Settings

Queue Name:

LPR Byte Counting Enabled

SNMP Status Enabled

Community Name: public

SNMP Device Index: 1

OK Cancel

## 14 Enter “PORT1” for the “Queue Name” and check on “SNMP Status Enabled”.

- “public” is automatically entered for the “Community Name”, and “1” is entered at the “SNMP Device Index”. Do not change them.

Configure Standard TCP/IP Port Monitor

Port Settings

Port Name: IP\_172.16.110.115

Printer Name or IP Address: 172.16.110.115

Protocol

Raw  LPR

Raw Settings

Port Number: 10001

LPR Settings

Queue Name: PORT1

LPR Byte Counting Enabled

SNMP Status Enabled

Community Name: public

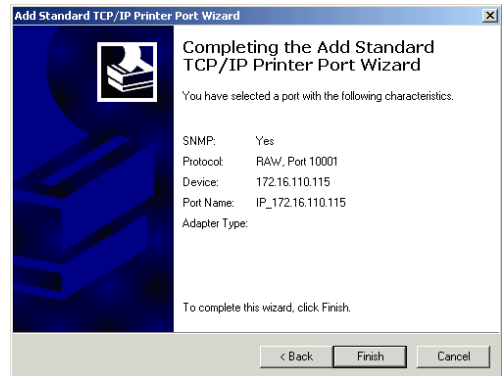
SNMP Device Index: 1

OK Cancel

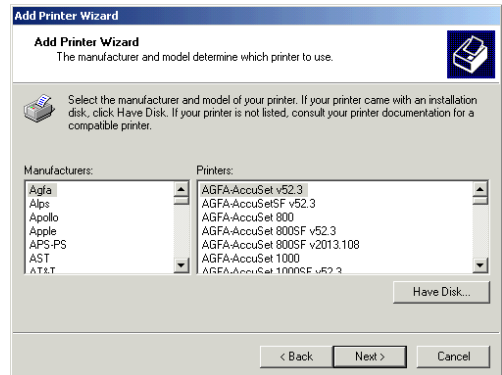
15 Click on [OK].

16 Click on [Next].

17 Click on [Finish].



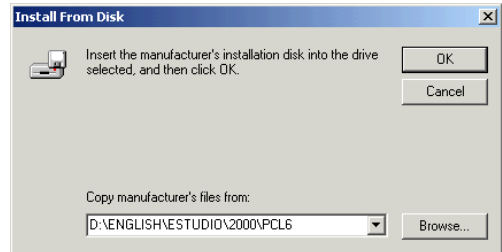
18 Click on [Have Disk...].  
● The Install From Disk screen appears.



19 Insert the printer driver CD-ROM.

20 Specify the folder that contains drivers for Windows 2000/XP at "Copy manufacturer's files from".

- When the PCL6 driver is installed, enter "D:\ENGLISH\ESTUDIO\2000\PCL6" (Where the CD-ROM drive is the D drive.)
- When the PS driver is installed, enter "D:\ENGLISH\ESTUDIO\2000\PS" (Where the CD-ROM drive is the D drive.)



21 Click on [OK].

**22** Select the printer driver to be installed.

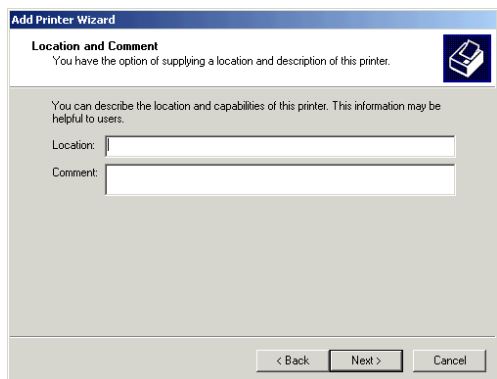
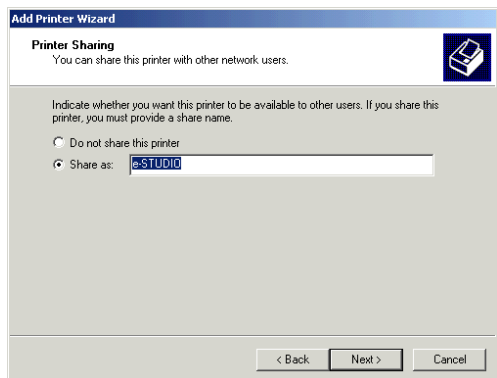
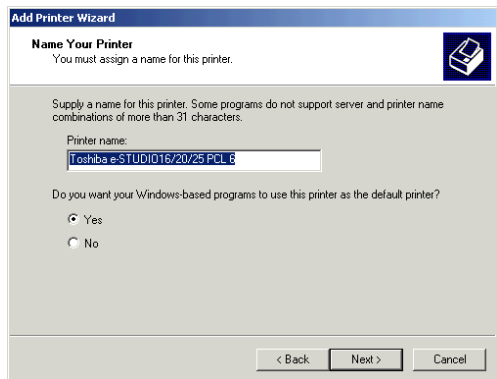
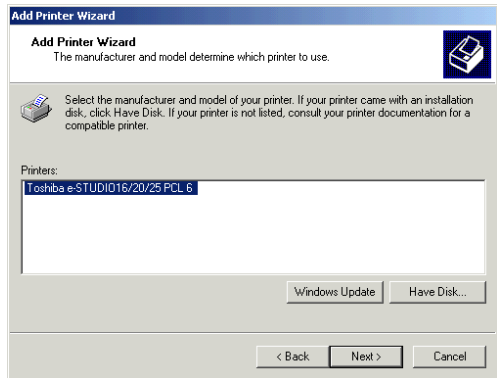
**23** Click on [Next].

**24** Change the Printer name if necessary, and click on [Next].

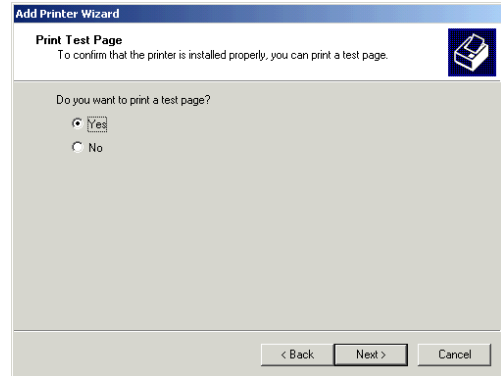
**25** Select “Shared as” and click on [Next].

- Rename the “Share Name” if required.

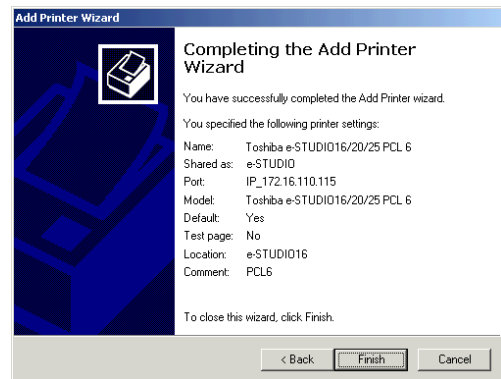
**26** Enter the “Location” and “Comment” for the printer information, and click on [Next].



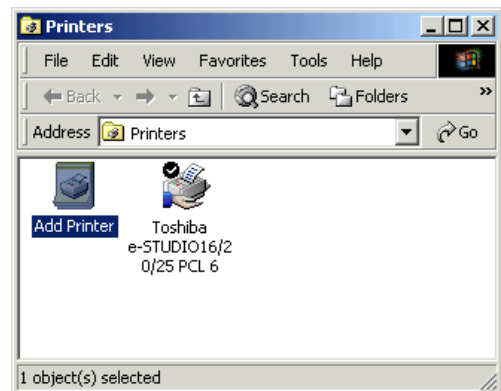
**27** Choose Yes or No as necessary, and click on [Next].



**28** Click on [Finish].



**29** The printer is created.



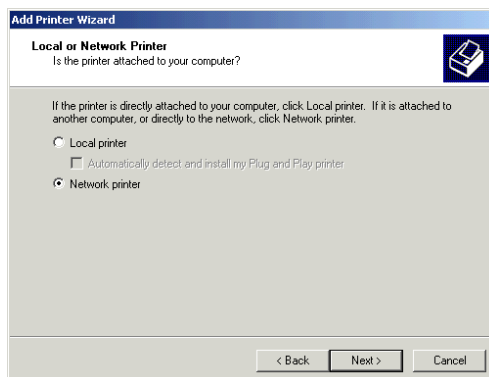
### SUPPLEMENT:

When you want to enable the client computer to install the printer driver from the Windows 2000 server, you must install the printer driver for Windows95/98/Me/NT4.0. See "Install the Printer Drivers for Different Version of Windows".

## When Using the IPP

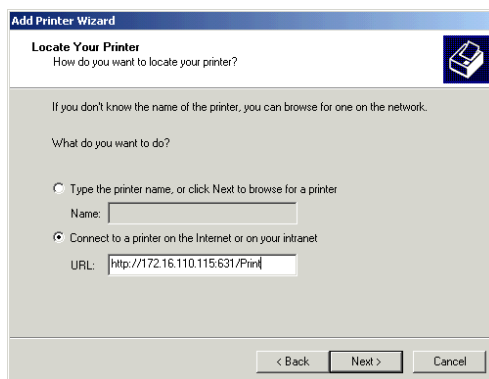
When the printer is connected to the Internet or Intranet, printing can be performed via the Internet Printing Protocol.

**6** Select “Network printer” and click on [Next].

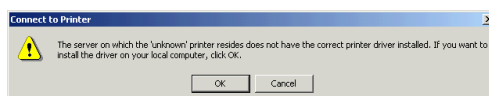


**7** Select “Connect to a printer on the Internet or on your intranet” and enter “http://xxx.xxx.xxx.xxx:631/Print” at “URL”.

- “xxx.xxx.xxx.xxx” is the IP address of the machine.
- The Connect to Printer screen appears.

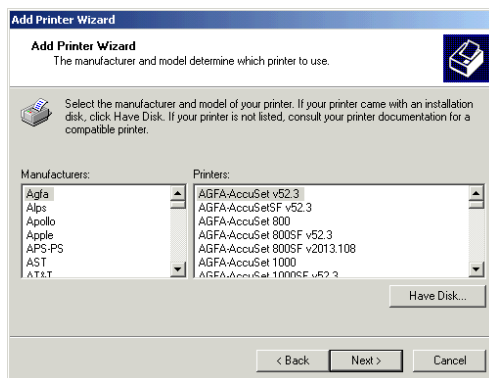


**8** Click on [OK].



**9** Click on [Have Disk...].

- The Install From Disk screen appears.

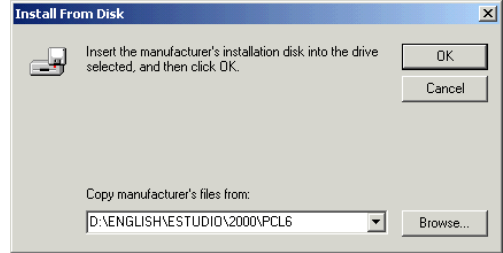




**10** Insert the printer driver CD-ROM.

**11** Specify the folder that contains drivers for Windows 2000/XP at “Copy manufacturer’s files from”.

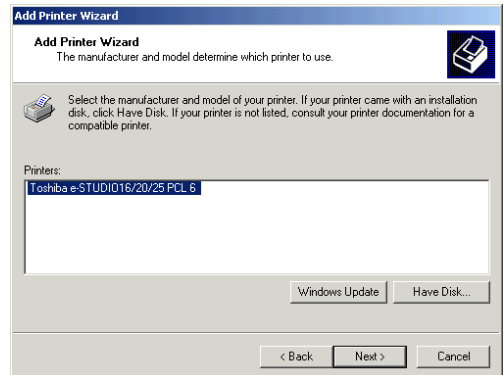
- When the PCL6 driver is installed, enter “D:\ENGLISH\ESTUDIO\2000\PCL6” (Where the CD-ROM drive is the D drive.)
- When the PS driver is installed, enter “D:\ENGLISH\ESTUDIO\2000\PS” (Where the CD-ROM drive is the D drive.)



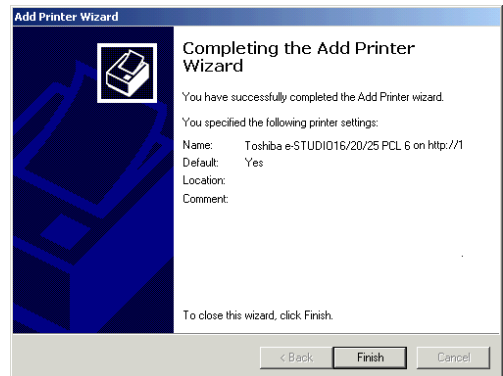
**12** Click on [OK].

**13** Select the printer driver to be installed.

**14** Click on [OK].

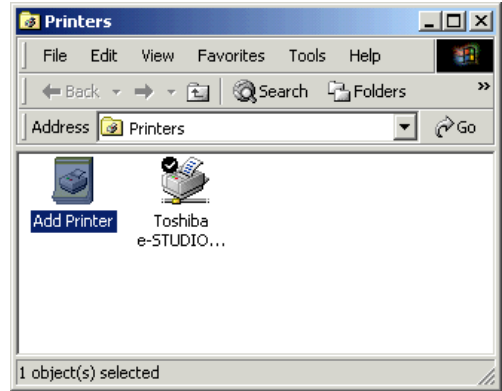


**15** Click on [Finish].



SETUP THE PRINT SERVER WITH WINDOWS NT 4.0

# 16 The printer is created.



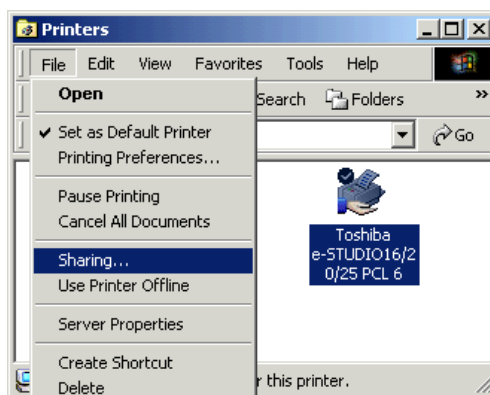
## Install the Printer Drivers for Different Versions of Windows

Install the printer driver for different versions of Windows so that the clients can install the printer drivers from the Windows 2000 server.

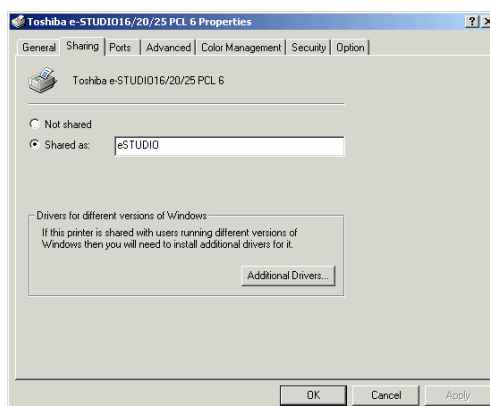
### SUPPLEMENT:

Windows XP clients can install the printer driver from the Windows 2000 server because the same printer driver can be used on Windows XP.

- 1 Log on to Windows NT as a user with "Administrator" or "Power User" group privileges.
- 2 Click on [Start] and choose [Settings].
- 3 Choose [Printers] to open the Printer Folder.
- 4 Select the printer driver and select [Sharing...] from the File menu.
  - The Sharing screen of printer properties appears



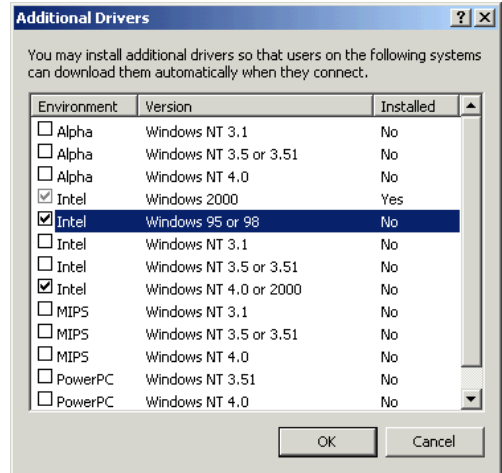
- 5 Click on [Additional Drivers...].
  - The Additional Drivers screen appears.



**6** Check on “Intel Windows 95 or 98” and “Intel Windows NT 4.0 or 2000”.

**7** Click on [OK].

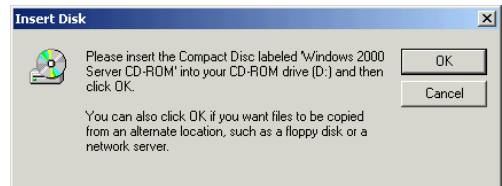
- The Insert Disk screen appears.



**8** Insert the printer driver CD-ROM.

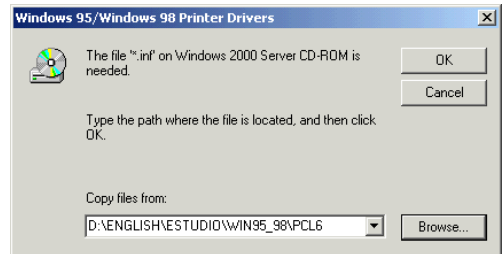
**9** Click on [OK].

- The Windows 95/Windows 98 Printer Drivers screen appears.



**10** Specify the folder that contains drivers for Windows 95/98/Me at “Copy files from”.

- When the PCL6 driver is installed, enter “D:\ENGLISH\ESTUDIO\WIN95\_98\PCL6” (Where the CD-ROM drive is the D drive.)
- When the PS driver is installed, enter “D:\ENGLISH\ESTUDIO\WIN95\_98\PS” (Where the CD-ROM drive is the D drive.)

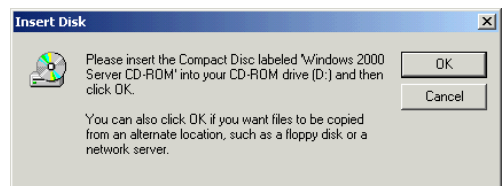


**11** Click on [OK].

- The system starts to copying files for the printer driver for Windows 95/98/Me.
- The Insert Disk screen appears.

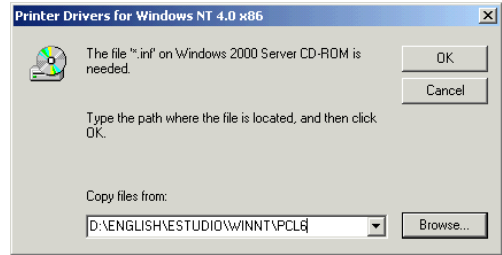
**12** Click on [OK].

- The Printer Drivers for Windows NT 4.0 x86 screen appears.



### 13 Specify the folder that contains drivers for Windows NT 4.0 at “Copy files from”.

- When the PCL6 driver is installed, enter “D:\ENGLISH\ESTUDIO\WINNT\PCL6” (Where the CD-ROM drive is the D drive.)
- When the PS driver is installed, enter “D:\ENGLISH\ESTUDIO\WINNT\PS” (Where the CD-ROM drive is the D drive.)



### 14 Click on [OK].

### 15 The printer drivers are installed.

#### **SUPPLEMENT:**

To install the printer driver to the client computer, see “INSTALLING THE PRINTER DRIVER for Windows - INSTALLATION BY ADDING A PRINTER.”



# INSTALLING THE PRINTER DRIVER for Windows

# INSTALLING THE PRINTER DRIVER

In order to utilize the printer functionality of the e-STUDIO16/20/25 on your computer, the printer drivers need to be installed. The printer drivers are contained in the CD-ROM included in the Printer kit.

## Features of Each Printer Driver

Several printer drivers are available for this machine. Please select the appropriate driver for printing to achieve optimal output.

PCL 6 : The PCL-6 driver is recommended for printing graphics.

PS : PS driver is compatible with a PostScript Level 2 printer. It is recommended for printing at high resolution from PostScript-capable applications and printing a document with EPS images.

### SUPPLEMENT:

Several printer drivers may be installed on one computer.

### NOTES:

- The printer drivers are provided for each OS. Be certain to use the right printer drivers for your OS.
- This CD-ROM contains a "README" file which describes precautions to note on the printer drivers and various applications. Please read it before installing the printer drivers.



This section describes the installation of the printer drivers on Windows 95/98/Me/NT4.0/2000/XP when your e-STUDIO16/20/25 is connected to the network. If your e-STUDIO16/20/25 is connected in a local mode, see the "OPERATOR'S MANUAL FOR PRINTER FUNCTION - Local Setup".

Select one of the following to install the printer driver in Windows.

- Installing from the CD-ROM (contains an exclusive installer)

The exclusive installer provides selection step by step and setup of the driver. See page 112.

- Install by adding a printer

This is performed by using the "Add Printer" wizard in Windows. This type of installation is useful when the exclusive installer is not available. See page 118.

### **SUPPLEMENTS:**

- When using the Peer-to-Peer utility, be certain to install the Peer-to-Peer Utility before installing the printer driver.
- If the e-STUDIO16/20/25 is to be used on a client server network with Windows NT 4.0 or Windows 2000 setup as a print server, install the printer drivers by using the "Add Printer" wizard. To setup a printer server on Windows NT 4.0 or Windows 2000, see "SETUP THE PRINT SERVER WITH Windows NT4.0/2000."

## Installation from the CD-ROM

The following describes how to install the printer driver from the CD-ROM.

### SUPPLEMENTS:

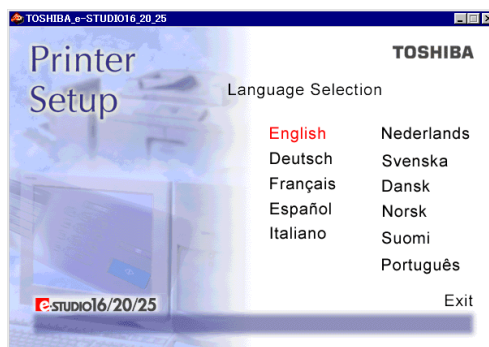
- This manual describes settings for Windows 95. The setting details are the same when Windows 98, Windows Me, Windows NT4.0, Windows 2000, or Windows XP is used.
- To install the printer driver on Windows NT4.0, Windows 2000, or Windows XP, "Full Control" access rights are necessary. A log on must be performed as a member of the Administrators or Power Users group. For further details on access rights, see the Windows manual.

### NOTE:

- Before installing the printer drivers, please be sure to exit from all other programs in Windows.

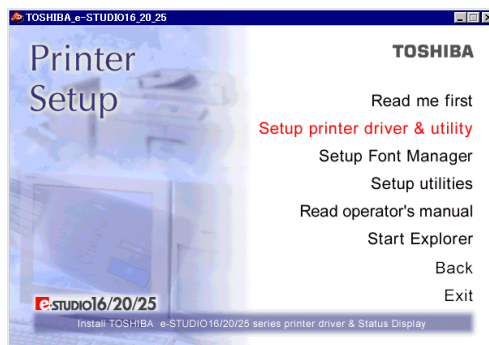
### 1 Insert the Printer kit CD-ROM into the CD-ROM drive.

- The menu screen appears.
- If the menu screen is not automatically displayed, or when the printer driver is installed via the network, double-click on "TOSHIBA\_e-STUDIO16\_20\_25.exe" in the Menu folder of the CD-ROM, which is found in Windows Explorer.



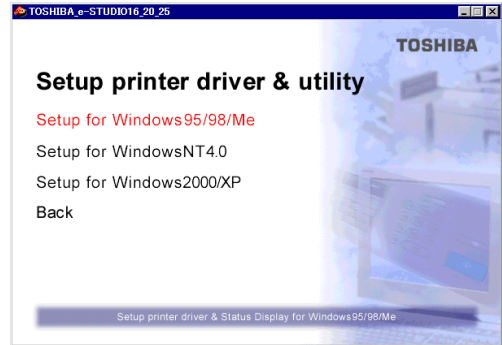
### 2 Click on a language of your Operating System.

### 3 Click on [Setup printer driver & utility].



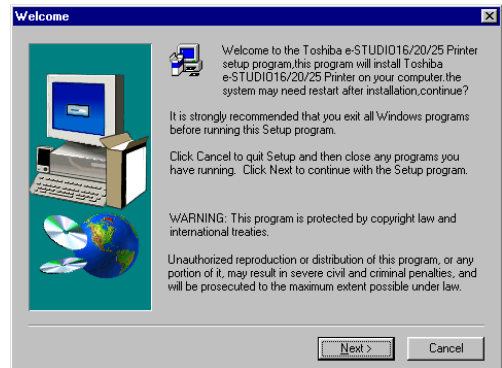
## 4 Click on the appropriate Setup for Windows Version.

- Click on [Setup for Windows 95/98/Me] for Windows 95/98/Me.
- Click on [Setup for WindowsNT4.0] for Windows NT4.0.
- Click on [Setup for Windows2000/XP] for Windows 2000 and Windows XP.
- The Welcome screen appears.



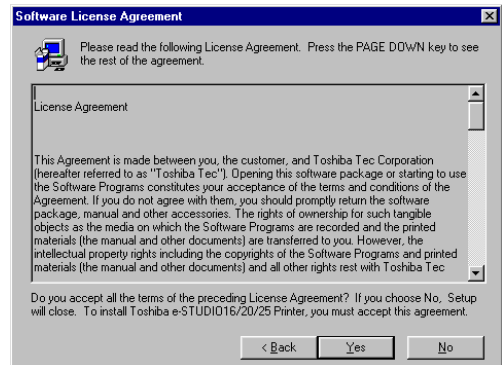
## 5 Click on [Next].

- The Software License Agreement screen appears. Please be sure to read through the agreement.



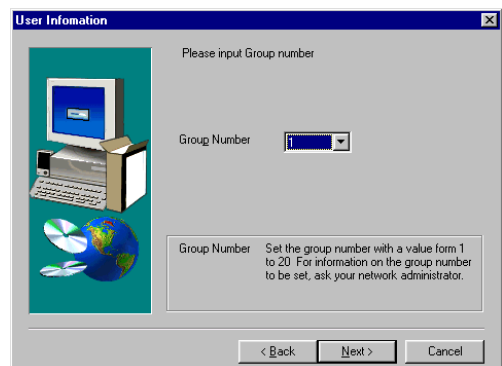
## 6 Click on [Yes].

- The User Information screen appears.



## 7 Select the [Group Number], and click on [Next].

- Group Number:  
Set the group number with a value from 1 to 20.  
For information on setting group number, ask your administrator.
- The Setup Type screen appears.



## 8 Select the “Emulation” and “Default Paper.”

- Emulation:  
This designates the type of driver.  
Check the emulation to be used. Multiple drivers may be installed.
- Default Paper:  
Select the default paper to be used.

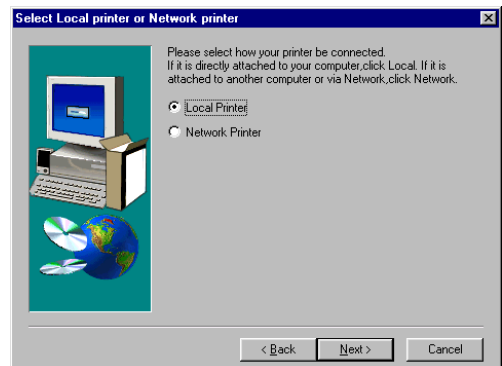


## 9 Click on [Next].

- The Select Local printer or Network printer screen appears.

## 10 Select the type of connection between the printer and your computer.

- Local Printer  
Select this when the printer is connected to a peer-to-peer network.
- Network Printer  
Select this when the printer is connected to a client/server network.

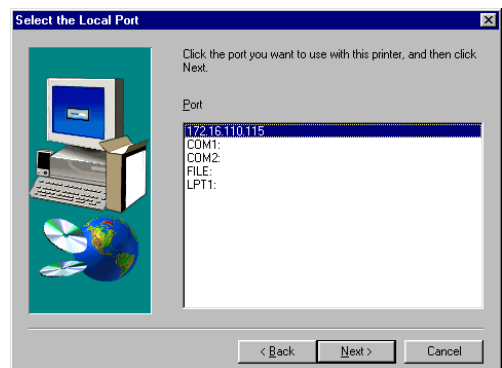


## 11 Click on [Next].

- If you selected [Local Printer], go to Step 12.
- If you selected [Network Printer], go to Step 13.

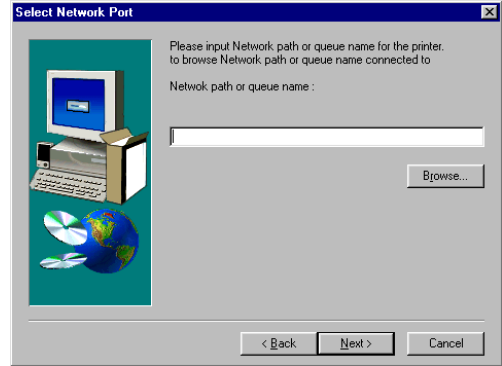
## 12 Select the Peer-to-Peer Port, and click on [Next].

- The Enter printer name screen appears. Go to Step 16.

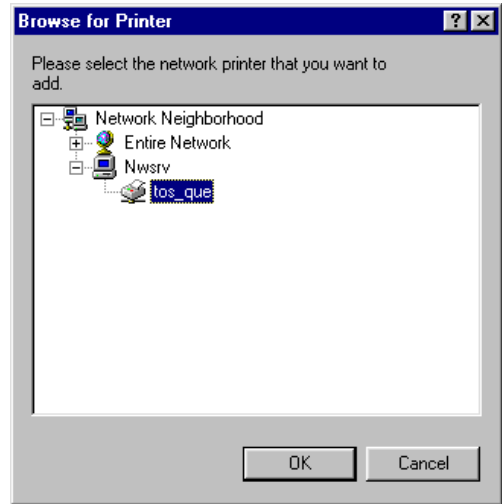


### 13 Click on [Browse...].

- You can also input or browse for the network path or network queue name of the printer in the field.
- The Browse for Printer screen appears.

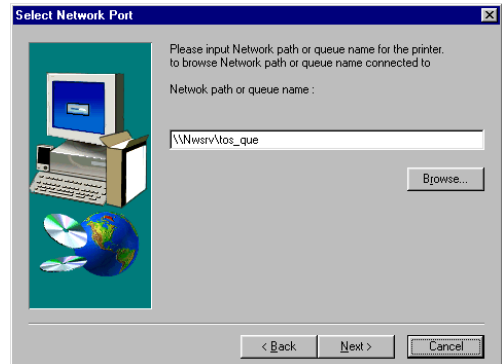


### 14 Select the network printer and click on [OK].



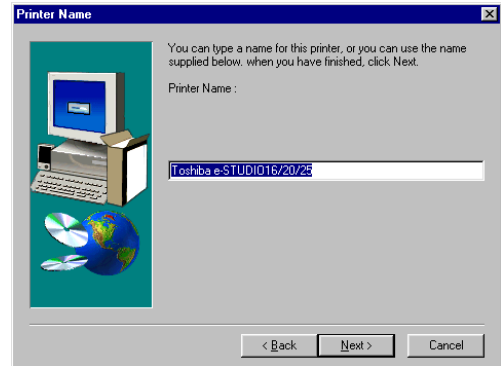
### 15 Click on [Next].

- The Printer Name screen appears.



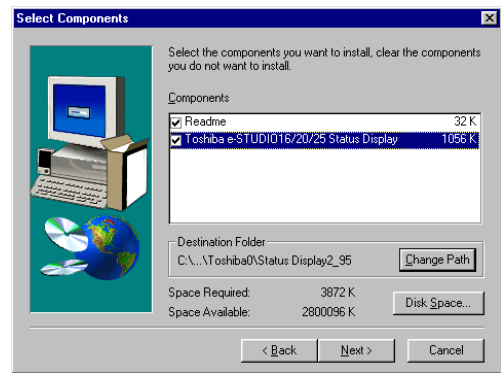
## 16 Enter the printer name, and click on [Next].

- The default printer name is automatically entered. If you do not need to change the name, click on [Next].
- The Select Components screen appears.



## 17 Ensure that the e-STUDIO16/20/25 Status Display is not checked.

- When your e-STUDIO16/20/25 is connected to the network, you do not need to install the TOSHIBA Status Display. It is not available when the e-STUDIO16/20/25 is connected to the network.
- The checkbox for the e-STUDIO16/20/25 Status Display is not displayed when you select "Network Printer" on step 10.



## 18 Select the drive and path for the components to be installed.

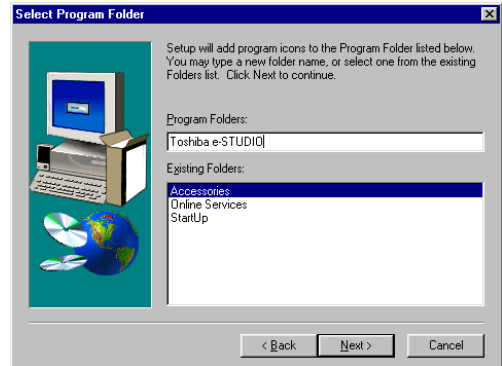
- [Change Path] button:  
The Select Folder screen appears from which a folder can be selected or created to install the application into.
- [Disk Space...] button:  
The Available Disk Space screen appears from which a disk drive with sufficient space to install the application can be selected.

## 19 Click on [Next].

- The Select Program Folder screen appears.

## 20 Select the Program Folder to be created, and click on [Next].

- The Start Copying Files screen appears.



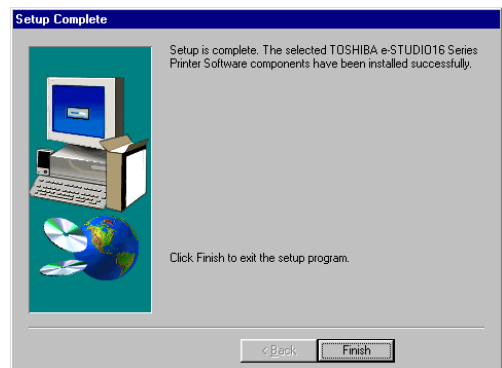
## 21 Click on [Next].

- Start the file copy. After completing the file copy, the Setup Complete screen appears.



## 22 Click on [Finish].

## 23 Complete the installation.



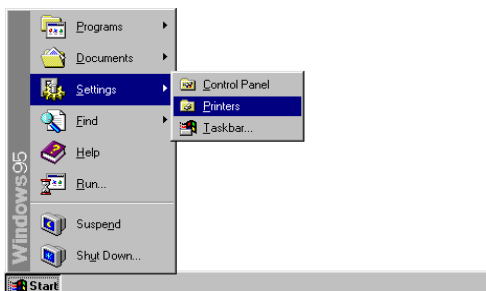
## Installation by Adding Printer

The following describes how to install the printer driver with the Add Printer function in Windows.

### Windows 95/98/Me

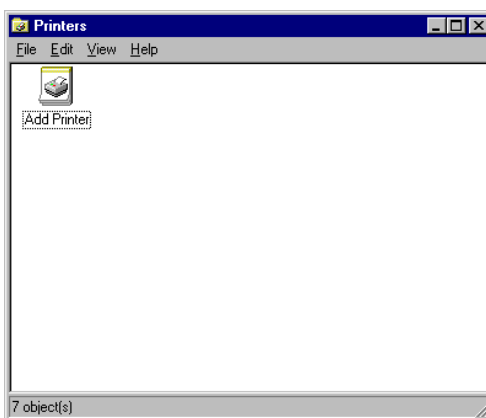
**1** Click on [Start], select [Settings], and then click on [Printers].

- The [Printers] folder opened.

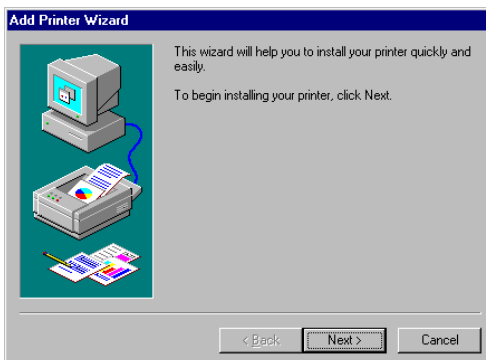


**2** Double-click on [Add Printer].

- The [Add Printer Wizard] begins.



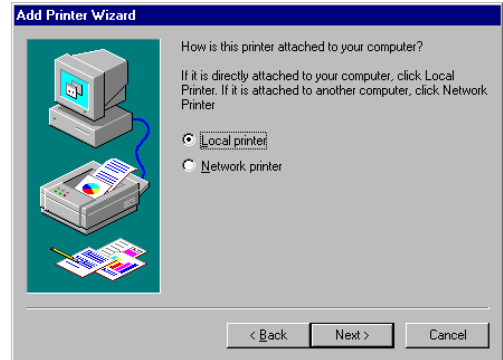
**3** Click on [Next].





## 4 Select the type of connection between the printer and your computer.

- Local Printer  
Select this when the printer is connected to a peer-to-peer network.
- Network Printer  
Select this when the printer is connected to a client/server network.

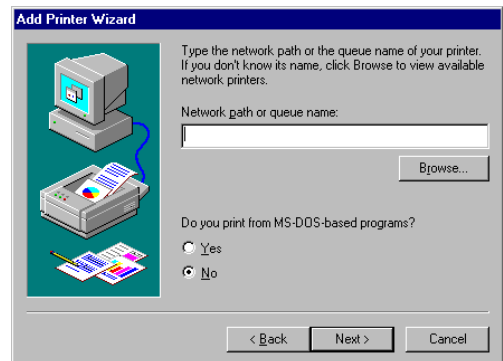


## 5 Click on [Next].

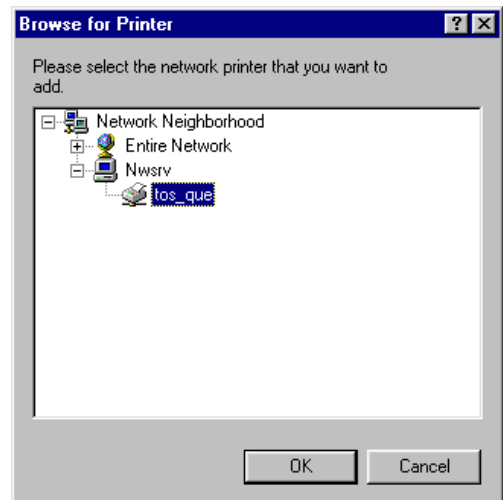
- When you select “Local Printer”, go to Step 9.
- When you select “Network Printer”, go to Step 6.

## 6 Click on [Browse...].

- You can also input or browse for the network path or network queue name of the printer.
- The Browse for Printer screen appears.

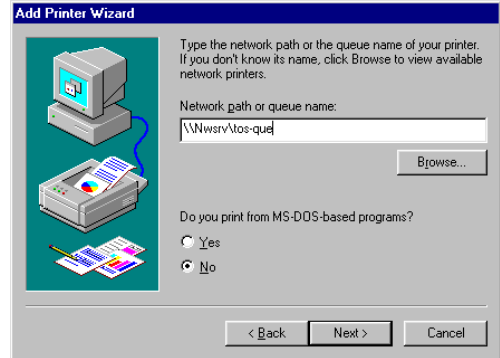


## 7 Select the network printer and click on [OK].



## 8 Click on [Next].

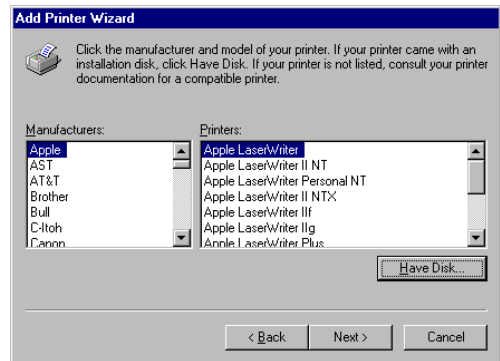
- When the selected network printer is created by Windows NT4.0 or Windows 2000 and it contains the printer driver for Windows95/98/Me, skip to step 15.



## 9 Click on [Have Disk...].

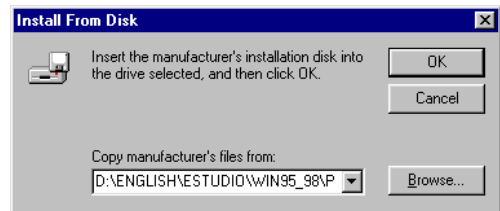
- The Install From Disk screen appears.

## 10 Insert the CD-ROM included with the Printer kit into the CD-ROM drive.



## 11 Enter the path to the printer driver located in the CD-ROM.

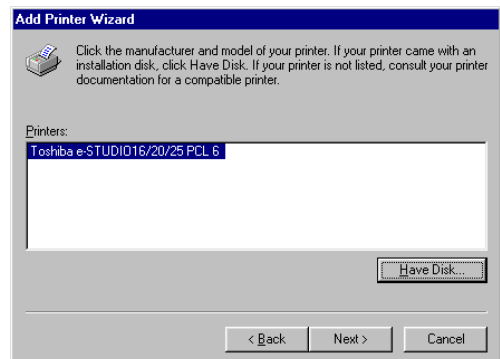
- If you want to install the PCL 6 printer driver, enter "D:\ENGLISH\ESTUDIO\WIN95\_98\PCL6" (where the CD-ROM driver is the D drive.)
- If you want to install the PS printer driver, enter "D:\ENGLISH\ESTUDIO\WIN95\_98\PS" (where the CD-ROM driver is the D drive.)



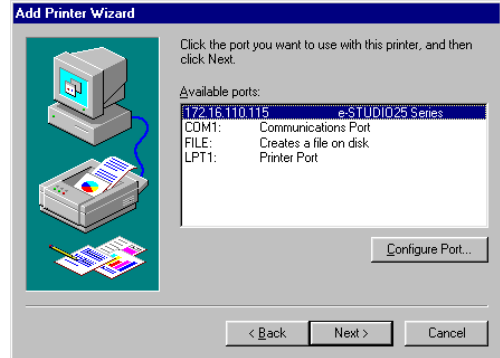
## 12 Click on [OK].

## 13 Select the printer to be used, and click on [Next].

- If the [Local Printer] is selected in Step 4, go to Step 14.
- If the [Network Printer] is selected in Step 4, go to Step 15.



**14** Select the port added in the Peer-to-Peer Utility and click on [Next].



**15** If necessary, change the Printer name, then click on [Next].

- When other printer drivers are already installed, select whether or not this new printer should be designated as the default printer. If [Yes] is selected, the e-STUDIO16/20/25 will be displayed as the first printer for printing your applications.



**16** Select to print a test page or not, then click on [Finish].

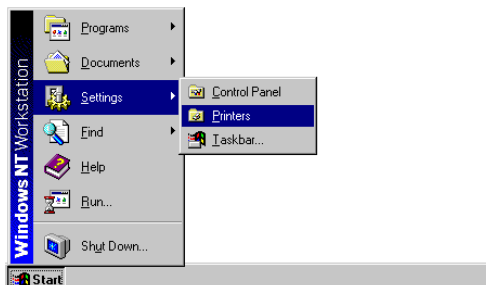
- The printer driver is installed.
- If [Yes] is selected for a test print, the printer test is performed.



## Windows NT4.0

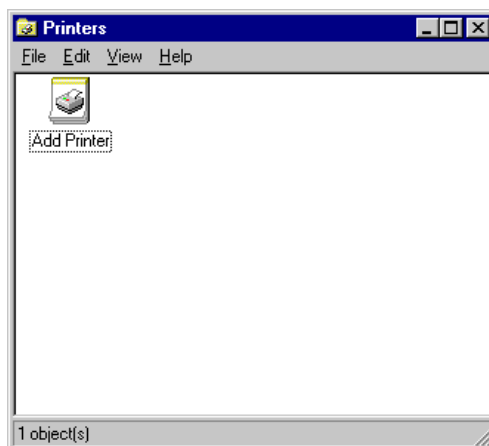
### 1 Click on [Start], select [Settings], and then click on [Printers].

- The [Printers] folder opened.



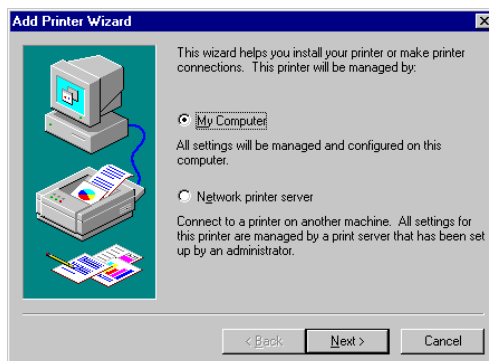
### 2 Double-click on [Add Printer].

- The [Add Printer Wizard] begins.



### 3 Select how the printer is to be controlled.

- My Computer  
Select this when the printer is connected on a peer-to-peer network.
- Network printer server  
Select this when the printer is connected on a client/server network.

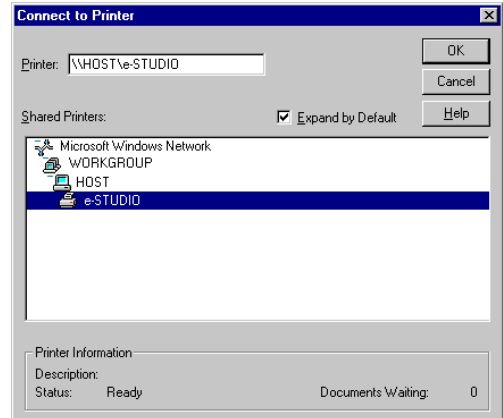


### 4 Click on [Next].

- When you select "My Computer", go to Step 7.
- When you select "Network printer server", go to Step 5.

## 5 Select the printer connected to the server, and click on [OK].

- If the server connected to the e-STUDIO16/20/25 is a Windows NT server, installation of the printer driver begins. When other printer drivers are already installed, select whether or not this new printer should be designated as the default printer. If [Yes] is selected, the printer's name will be displayed as the first printer for printing documents.
- If the server connected to the e-STUDIO16/20/25 is not a Windows NT server, the message "Click on OK if you wish to install the driver on your local machine." appears. Click on [OK] and go to Step 8.

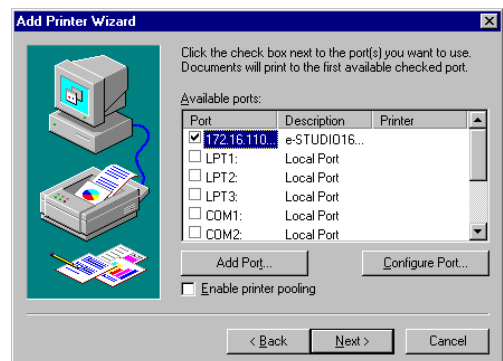


## 6 Click on [Finish].

- Installing the printer driver is complete.
- The printer driver installed on the NT server is copied to your computer.

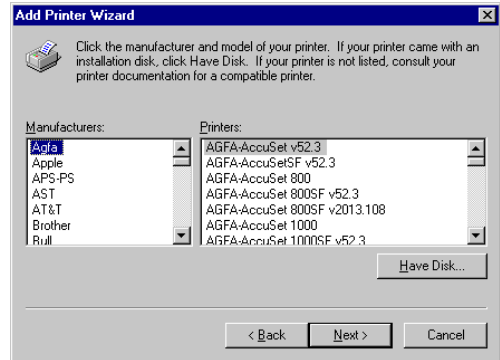


## 7 Select the port added in the Peer-to-Peer Utility and click on [Next].



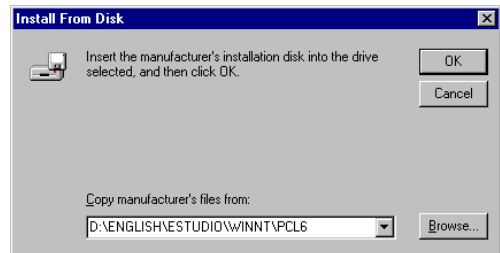
- 8** Click on [Have Disk...].
- The Install From Disk screen appears.

- 9** Insert the CD-ROM included with the Printer kit into the CD-ROM drive.



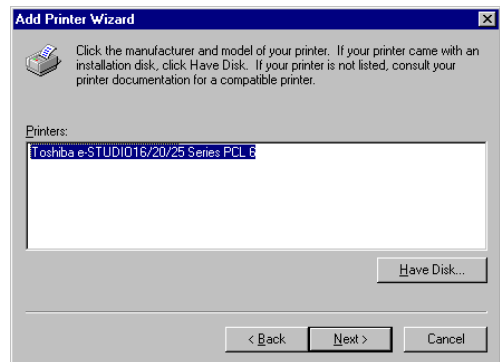
- 10** Enter the path to the printer driver located in the CD-ROM.

- If you want to install the PCL 6 printer driver, enter "D:\ENGLISH\ESTUDIO\WINNT\PCL6" (where the CD-ROM driver is the D drive.)
- If you want to install the PS printer driver, enter "D:\ENGLISH\ESTUDIO\WINNT\PS" (where the CD-ROM driver is the D drive.)



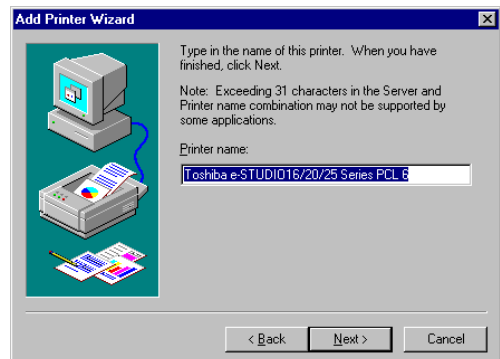
- 11** Click on [OK].

- 12** Select the printer to be used, and click on [Next].

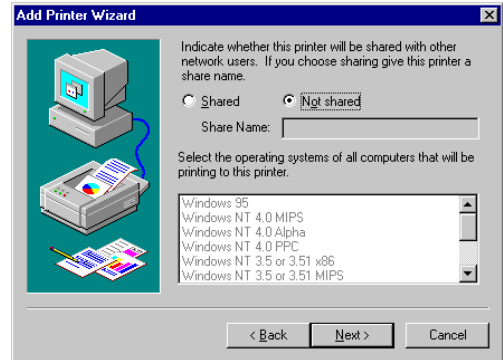


- 13** If necessary, change the Printer name, then click on [Next].

- If other printer drivers are already installed, select whether or not this new printer should be designated as the default printer. If [Yes] is selected, the printer name will be displayed as the first printer for printing your applications.



**14** Select [Not Shared], then click on [Next].



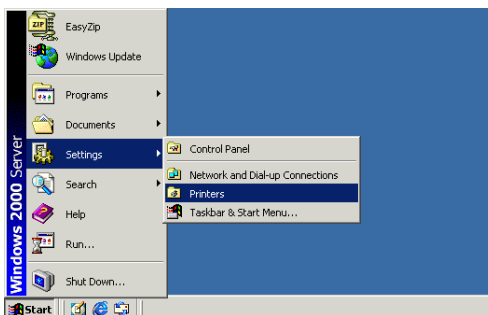
**15** Choose whether to print a test page or not, then click on [Finish].



## Windows 2000/XP

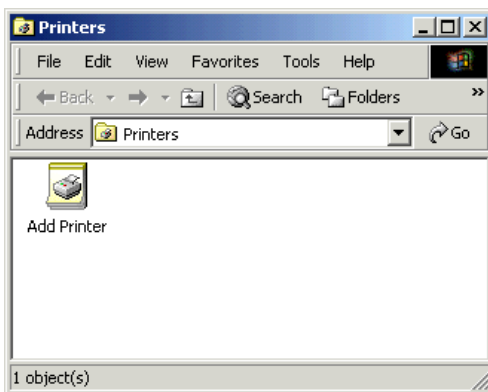
**1** Click on [Start], select [Settings], and then click on [Printers].

- When using on Windows XP, click on [Start] and [Printers and Faxes].
- The [Printers] folder is opened.



**2** Double-click on [Add Printer] to start the Printer Wizard.

- When using on Windows XP, click on [Add a printer] link in the [Printer Tasks] menu.



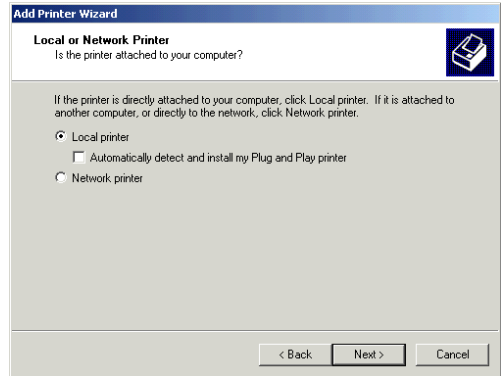
**3** Click on [Next].





## 4 Select how the printer is to be controlled.

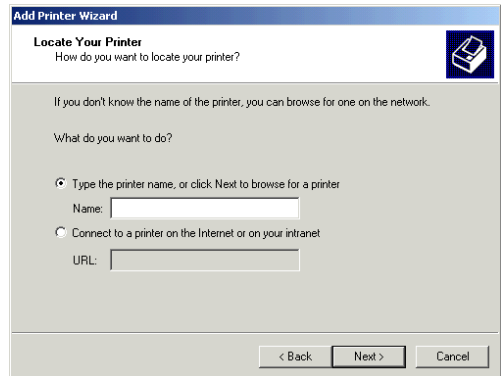
- Local printer  
Select this when the printer is connected on a peer-to-peer network.
- Network printer  
Select this when the printer is connected on a client/server network and is controlled by an NT server.



## 5 Click on [Next].

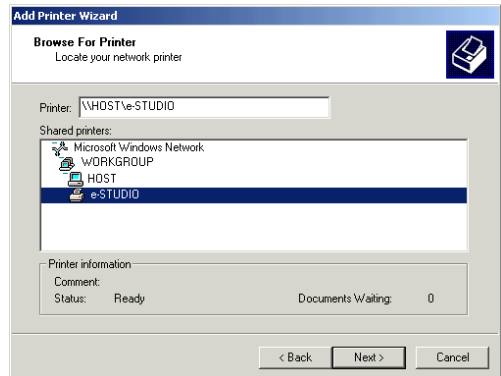
- When you select "Local printer", go to Step 9.
- When you select "Network printer", go to Step 6.

## 6 Select "Type the printer name, or click Next to browse for a printer" then click on [Next].

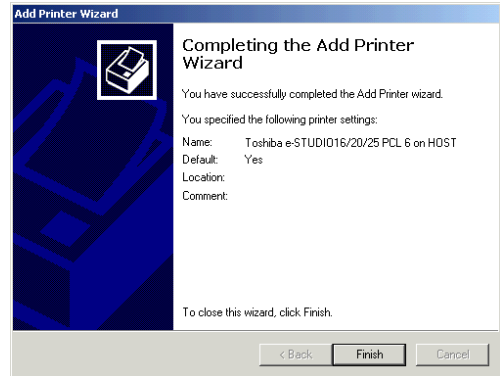


## 7 Select the printer connected to the server, and click on [Next].

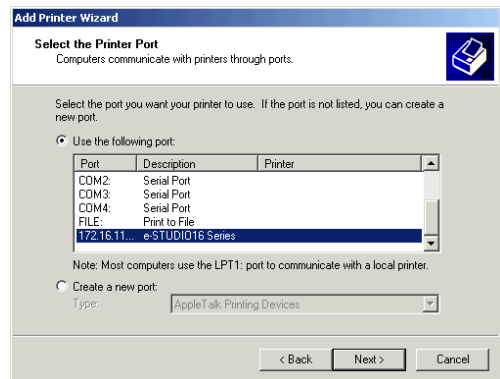
- If the server connected to the printer has source files of the printer driver for Windows 2000/XP, installation of the printer driver begins. When other printer drivers are already installed, select whether or not this new printer should be designated as the default printer. If [Yes] is selected, the printer name will be displayed as the first printer for printing your applications.
- If the server connected with this printer does not have source files of the printer driver for Windows 2000/XP, the Connect to Printer screen appears. Click on [Next] and go to Step 10.



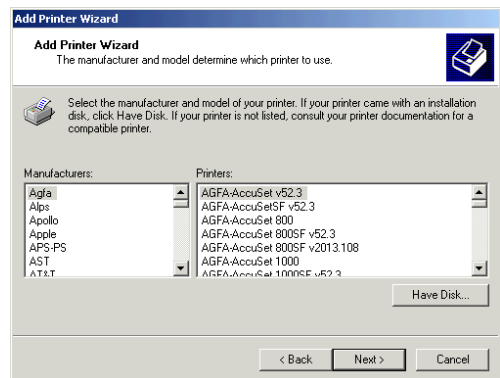
- 8** Click on [Finish].
- Installing the printer driver is completed.



- 9** Select the port added in the Peer-to-Peer Utility and click on [Next].



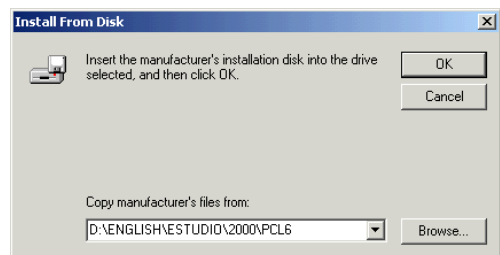
- 10** Click on [Have Disk...].
- The Install From Disk screen appears.



- 11** Insert the CD-ROM included with the Printer kit into the CD-ROM drive.

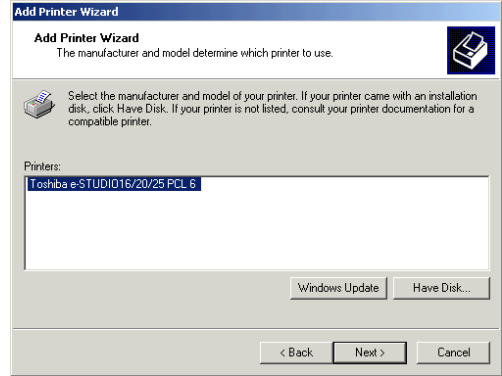
- 12** Enter the path to the printer driver located in the CD-ROM.

- If you want to install the PCL 6 printer driver, enter "D:\ENGLISH\ESTUDIO\2000\PCL6" (where the CD-ROM driver is the D drive.)
- If you want to install the PS printer driver, enter "D:\ENGLISH\ESTUDIO\2000\PS" (where the CD-ROM driver is the D drive.)



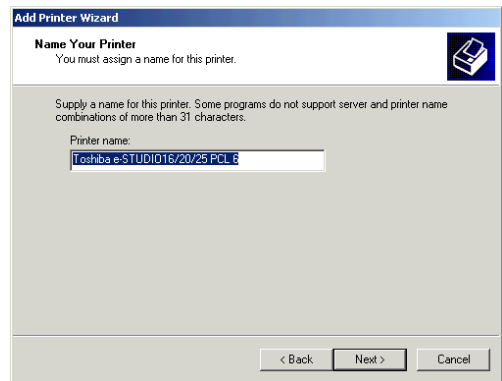
- 13** Click on [OK].

**14** Select the printer to be used, and click on [Next].

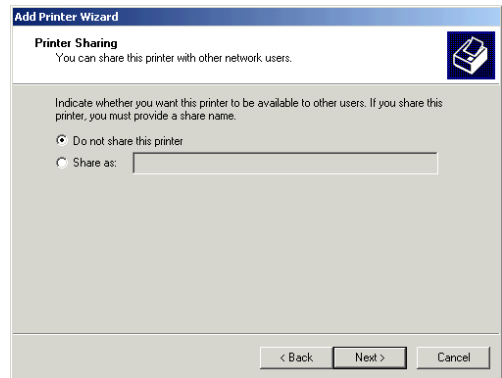


**15** If necessary, change the Printer name, then click on [Next].

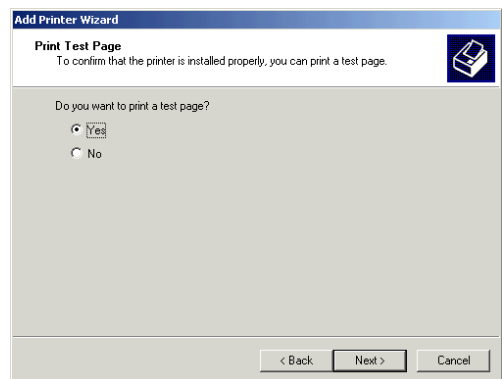
- If other printer drivers are already installed, select whether or not this new printer should be designated as the default printer. If [Yes] is selected, the printer name will be displayed as the first printer for printing your applications.



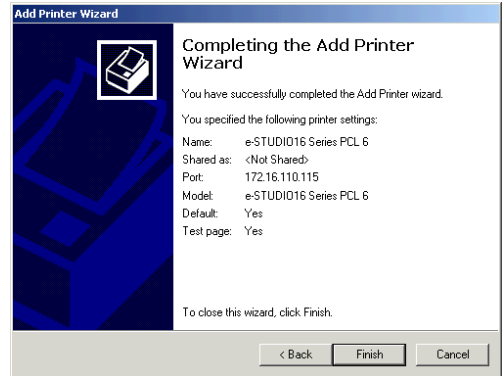
**16** Select “Do not share this printer”, then click on [Next].



**17** Choose whether to print a test page or not, then click on [Next].



- 18** Click on [Finish].
- The printer driver is installed.



## Copying the PageMaker PPD file

If you would like to print using the PS printer driver from Adobe PageMaker, you must copy the PPD file to your Adobe PageMaker program folder.

### SUPPLEMENT:

The PPD (PostScript Printer Description) file contains descriptions of printer-specific functions and information. This file is used to make printer-specific functions available and to provide optimum printing.

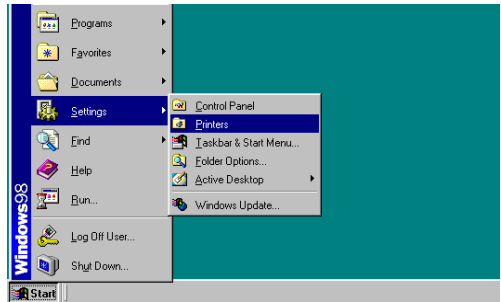
- 1** Insert the CD-ROM into the CD-ROM drive.
- 2** Browse the “\English\eSTUDIO\PageMaker” folder in the CD-ROM.
- 3** Copy the “TSBEST16.PPD” to “\RSRC\ENGLISH\PPD4” folder in the Adobe PageMaker Program folder.
  - The directory of “PPD4” folder in the Adobe PageMaker program folder is usually “C:\PM65\RSRC\ENGLISH\PPD4”.

## Setting the Options Configuration

Before printing with the printer driver, you have to set the Options Configuration at the printer driver. The functions of the printer driver for printing vary depending on the Options.

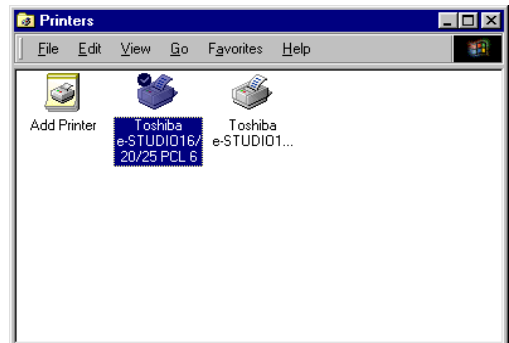
### 1 Click on the [Start] button, click on [Settings] and click on [Printers].

- When using on Windows XP, click on [start] and [Printers and Faxes].

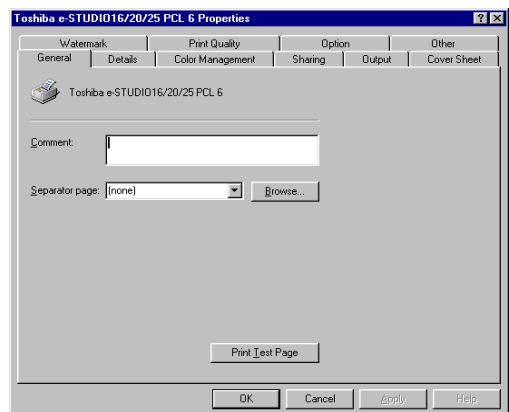


### 2 Select the icon for the printer, and select [Properties] from the [File] menu.

- The properties screen of the printer driver appears.

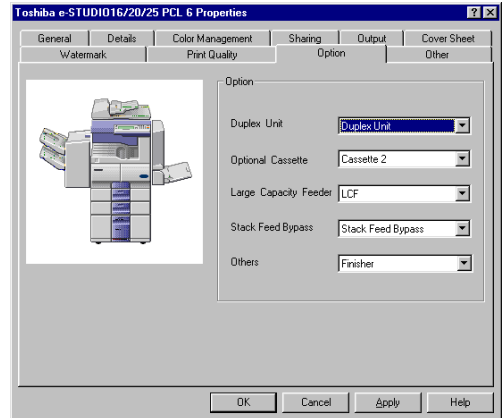


### 3 Click on [Option] tab.



## 4 Select the installed options for each items.

- Duplex Unit  
Selects whether or not the Duplex Unit is installed.
- Option Cassette  
This selects how the optional cassettes are installed.
- Large Capacity Feeder  
This selects how the Large Capacity Feeder is installed. The Large Capacity Feeder is an option for e-STUDIO20/25 Series only.
- Stack Feed Bypass  
Selects this when the Bypass Tray is installed.
- Others  
Select this when other optional devices are installed.



### SUPPLEMENT:

For further information about [Option] tab, refer to the OPERATOR'S MANUAL FOR PRINTER FUNCTION - Local Setup "SETTING FOR PRINTING - [Option] Tab"

## 5 Click on [OK] to save the settings.

# UNINSTALLING THE PRINTER DRIVER

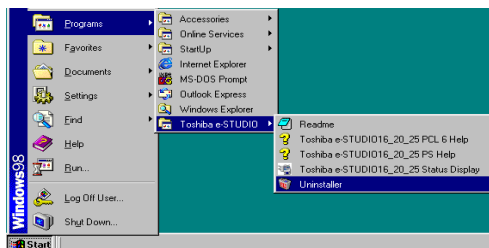
## SUPPLEMENT:

If the printer drivers were installed through the "Add Printers" or "Plug-and-Play" process, then delete the printer icons from the Printer folder to uninstall the printer driver.

Please make sure that all Toshiba printer utilities have been shut-down before uninstalling.

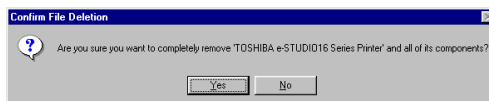
### 1 Run the Uninstall.exe.

- The shortcut to the Uninstall.exe can be found in the "Toshiba e-STUDIO" program group folder, within the "Programs" folder.
- The Confirm File Deletion screen appears.



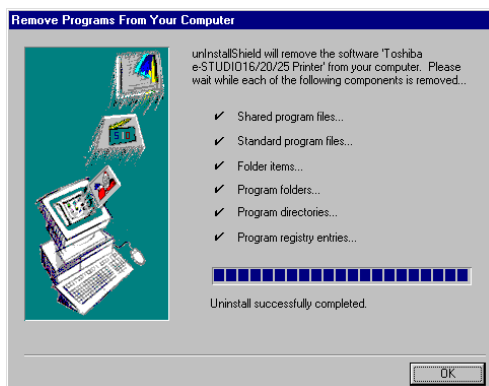
### 2 Click on [Yes].

- Start removing programs.



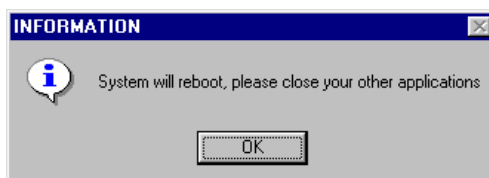
### 3 After programs have been removed, click on [OK].

- The INFORMATION screen appears.
- If the TOSHIBA Status Display has not been installed on your computer, the INFORMATION screen does not appear and this completes the uninstall.



### 4 Click on [OK].

- Your computer is restarted.



# INSTALLING THE AGFA FONT MANAGER

## Install AGFA Font Manager

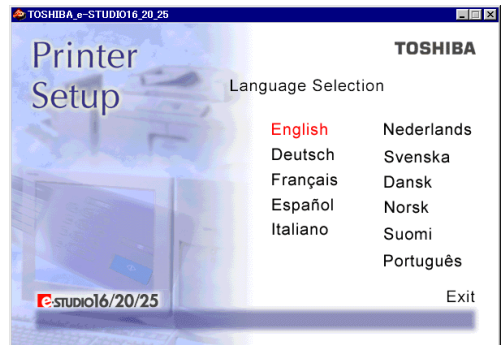
The AGFA Font Manager application is used to install, uninstall, preview and categorize fonts on your computer.

### NOTE:

To install the AGFA Font Manager, Internet Explorer 4.0 or later must be installed on your computer.

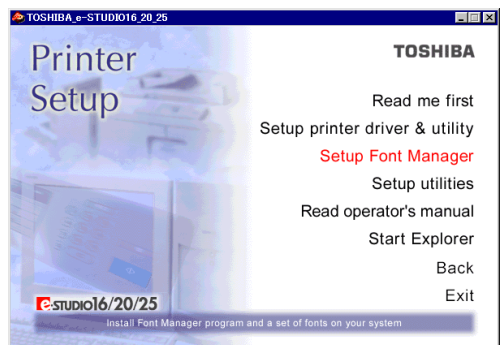
### 1 Insert the CD-ROM into the CD-ROM drive.

- The menu screen appears.
- If the menu screen is not automatically displayed, or when the AGFA Font Manager is installed via the network, double-click on "TOSHIBA\_e-STUDIO16\_20\_25.exe" in the Menu folder of the CD-ROM, that may be found in Windows Explorer.



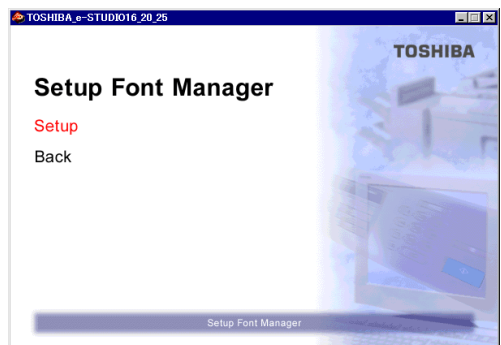
### 2 Click on a language of your Operating System.

### 3 Click on the [Setup Font Manager].



### 4 Click on the [Setup].

- The Choose Setup Language screen appears.





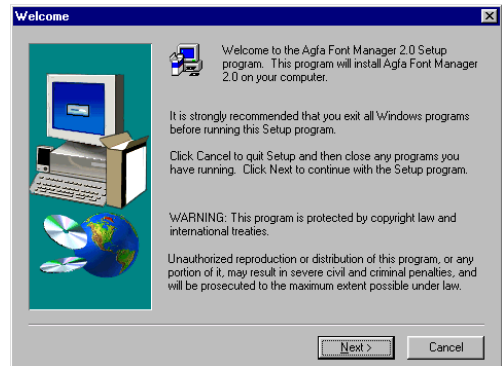
## 5 Select a language and click on [OK].

- The Welcome screen appears.



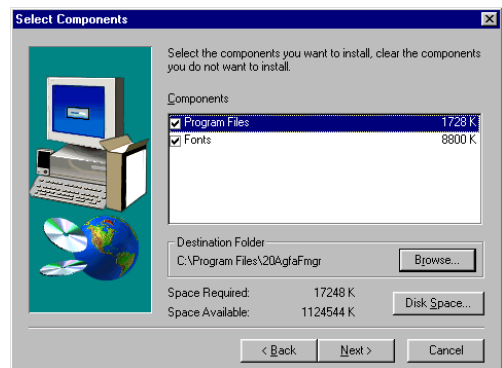
## 6 Click on [Next].

- The Select Components screen appears.



## 7 Check the components you want to install.

- Programs Files:  
Install the AGFA Font Manager program.
- Fonts:  
Install the default fonts to the AGFA Font Manager.



## 8 Select the drive and path for the components to be installed.

- [Browse...] button:  
The Select Folder screen appears from which a folder can be selected or created to install the application.
- [Disk Space...] button:  
The Available Disk Space screen appears from which a disk drive with sufficient space to install the application can be selected.

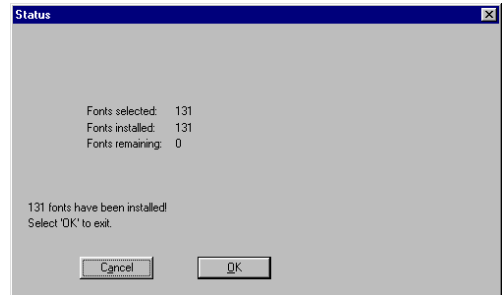
## 9 Click on [Next].

- Installation of the AGFA Font Manager and fonts begins.

### IMPORTANT:

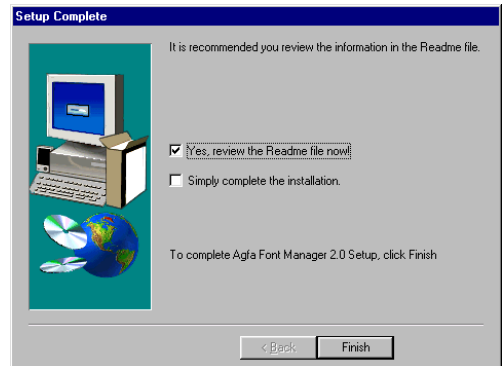
While installation is under way, do not take out the CD-ROM. Otherwise, the “AGFA Font Manager” may not be installed correctly.

## 10 Click on [OK].



## 11 Click [Finish].

- If you want to view the Readme file, check on “Yes, review the Readme file now!”.
- If you want to skip this process, check on “Simply complete the installation”.
- The installation is completed.



### SUPPLEMENT:

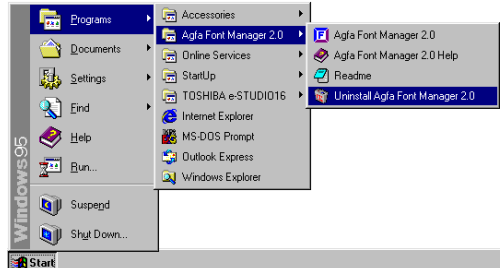
When installing the AGFA Font Manager from Windows 95, the message that announces you to restart your computer is displayed. It is recommended to restart your computer before using the AGFA Font Manager on Windows 95.

# Uninstall AGFA Font Manager

Please make sure that all programs have been shut-down before uninstalling.

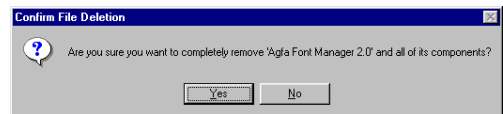
## 1 Run the Uninstall.exe.

- The shortcut to the Uninstall.exe can be found in the "AGFA Font Manager 2.0" program group folder, in the "Programs" folder.
- The Confirm File Deletion screen appears.



## 2 Click on [Yes].

- Start removing programs.



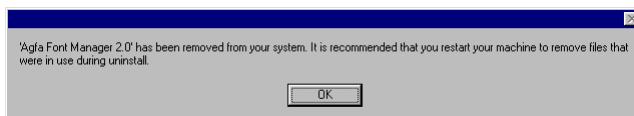
## 3 Click on [OK].

- Complete the uninstall process.



## SUPPLEMENT:

When uninstalling the AGFA Font Manager from Windows 95, the message that announces you to restart your computer is displayed. It is recommended to restart your computer after uninstalling the AGFA Font Manager from Windows 95.

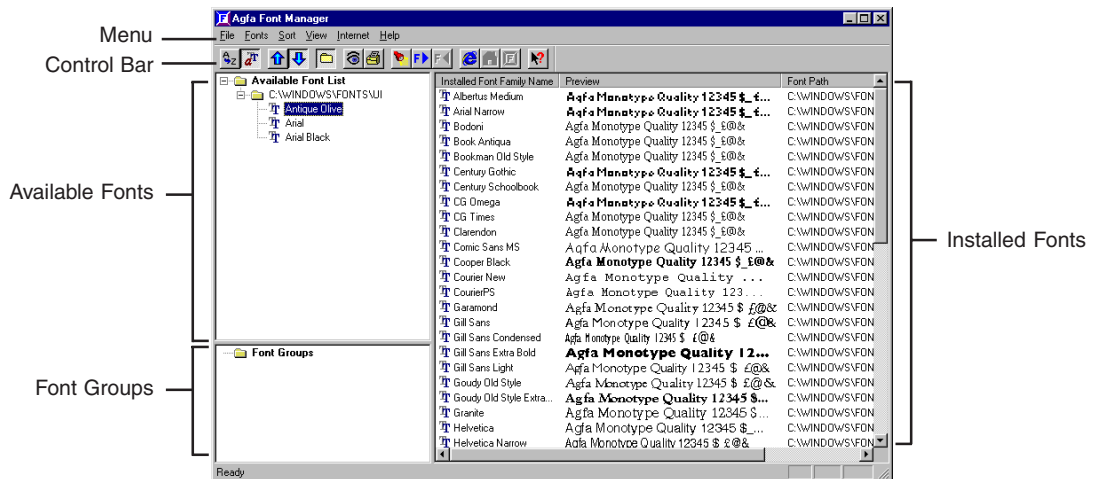


AGFA Font Manager can manage your fonts in Windows.

It can:

- Install and uninstall fonts in Windows.
- Load new fonts from distribution diskettes.
- Search your local and network drives for fonts.
- Preview the fonts on your computer or network.
- Create font groups for personal or workgroup projects.
- Sort your fonts in a variety of ways, etc.

## Description of Screen



- **Menu** AGFA Font Manager conveniently allows you to access basic operations through the menu items. Please see the Help for more detailed information.
- **Control Bar** AGFA Font Manager has a control bar to allow quick access to basic functions. Please see the Help for more detailed information.
- **Available Fonts** Displays the list of available fonts. Select fonts from this list to install in Windows.
- **Installed Fonts** Displays the family name of fonts which are installed and active under Windows.
- **Font Groups** Create, delete, and modify the font groups. Font grouping allows you to create custom collections of fonts and give them meaningful names. Font collections can represent different working scenarios, different users of your computer, or different styles you want to convey.

### NOTE:

For further details of items and operation of the AGFA Font Manager, press F1 to display the HELP window.

## Getting Started with AGFA Font Manager

### Install Fonts

- Select one or more fonts to install from the Available Fonts list (the left list box).
- Click on the [Install] button.

### View Font Samples

- Select a font in the Available Fonts list or Installed Fonts list.
- Click on [Preview] button.

### Print Font Samples

- Select a font in the Available Fonts list or Installed Fonts list.
- Click [Print] button.
- Click [OK] in the [Print Samples] dialog box to print the samples.

### Search for Fonts

You can search for fonts on floppy disks, CD-ROMs, your hard disk, or on the network.

- Use the [Search] button.
- Select where you want to search for fonts.
- Click on [OK].

### Uninstall Fonts

- Select one or more fonts to be uninstalled from the Installed Fonts list.
- Click on the [Un-install] button.

### Use Help

For more information about AGFA Font Manager, choose Help Topics in the Help menu.



# INSTALLING THE PRINTER DRIVER for Macintosh

# INSTALLING THE PRINTER DRIVER

In order to utilize the printer functionality of the e-STUDIO16/20/25 on your computer, the printer drivers need to be installed. Use the LaserWriter 8 as a standard driver for the Mac Operating System.

The PPD file needs to be installed from the CD-ROM in order to enable features specific to the e-STUDIO16/20/25.

## System Requirements

- Hardware
  - Display Resolution: 640 x 480 dots or more
- Operating System
  - Mac OS 8.0, 8.5, 8.6, 9.0



## Copying the PPD File

Copy the PPD file to the System Folder, the Extensions Folder, and the Printer Description File Folder.

### **SUPPLEMENT:**

The PPD (PostScript Printer Description) file contains descriptions of printer-specific functions and information. This file is used to make printer-specific functions available and to provide optimum printing. Install the PPD file, and select the e-STUDIO16/20/25 from [Chooser] in the [Apple] menu.

- 1** Insert the CD-ROM into the CD-ROM drive.
- 2** Double-click on the boot drive icon, and the System Folder appears.  
Open the Extensions Folder in the System Folder.
- 3** Double-click on the CD-ROM icon.
- 4** Copy the PPD file “e-STUDIO16\_20\_25.PPD” to the Printer Description File Folder in the Extensions Folder.

## Select the Driver

Select the e-STUDIO16/20/25 from the Chooser.

### SUPPLEMENTS:

- Your computer must be connected to the network via Ethernet. And “Ethernet” must be selected for “Connect via” in the AppleTalk SETUP.
- If the network has not been set yet, it should be set in [AppleTalk], [File Sharing], [Users & Groups], and so on.
- In order to print through AppleTalk, the machine must be set to enable the AppleTalk protocol. See “NETWORK SETUP - APPLTALK”.

**1** Click on the [Apple] menu, and select [Chooser].

- “Chooser” appears.

**2** Make sure that “Active” is selected for “AppleTalk”.

- If “Inactive” is selected for “AppleTalk”, please click on “Active”.
- If “Active” is selected for “AppleTalk”, but no other Macintosh on the network is displayed, please confirm that the network cable is connected and set properly.

**3** Select a zone that this machine belongs to from “AppleTalk Zone”.

- This appears only when several zones exist on the same network.
- Please ask an administrator which zone the printer is a part of

**4** Select “LaserWriter8”.

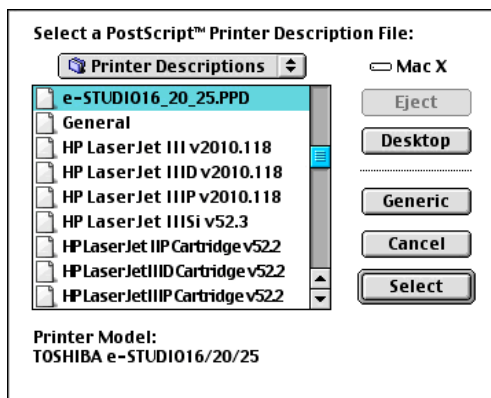
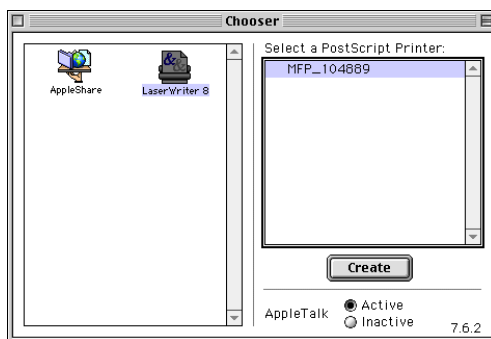
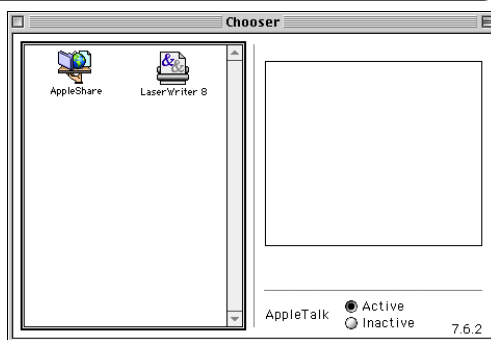
- The printer list appears in “Select a PostScript Printer”.

**5** Select this machine from the printer list, and click on [Create].

- “Select a PostScript Printer Description File” appears.

**6** Select “e-STUDIO16\_20\_25.PPD”, and click on [Select].

- The printer is created on the desktop.
- If other options are installed on the machine, the screen in Step 3 at “Option Setup” is displayed. In this case, continue the operation.

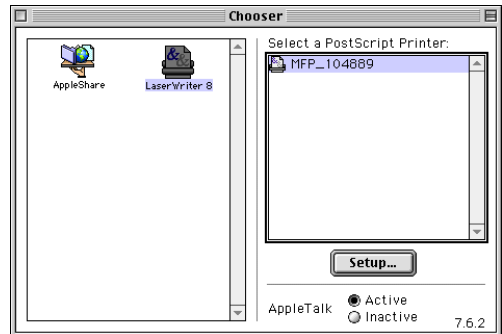


## Option Setup

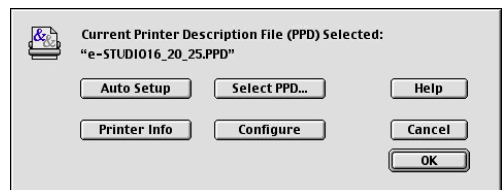
If the options, such as the optional cassettes and the Duplex Unit, etc., are installed on the printer, they must be added in the printer driver.

When the PPD file is installed for the first time, proceed to step 3 since the “Installable Options” setting screen appears after the file is installed.

- 1 **Select this machine from the “Chooser” screen, and click on [Setup].**



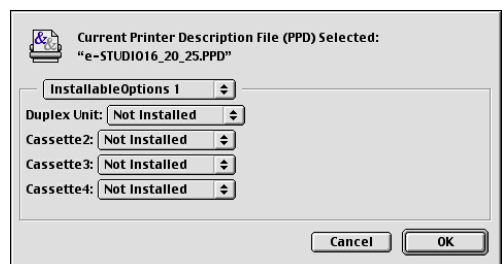
- 2 **Click on [Configure].**
  - The “Installable Options” setting screen appears.



- 3 **Select items according to the options being used currently, and click on [OK].**

### InstallableOptions 1

- Duplex Unit  
If the Duplex Unit is installed, select “Installed”.
- Cassette 2  
If cassette 2 is installed, select “Installed”.
- Cassette 3  
If cassette 3 is installed, select “Installed”.
- Cassette 4  
If cassette 4 is installed, select “Installed”.



### InstallableOptions 2

- Large Capacity Feeder

If the Large Capacity Feeder is installed, select "Installed".

- Stack Feed Bypass

If the Stack Feed Bypass is installed, select "Installed".

- Others

If the Offset Stacker is installed, select "Offset Stacker".

If the Job Separator is installed, select "Job Separator".

If the Finisher is installed, select "Finisher".

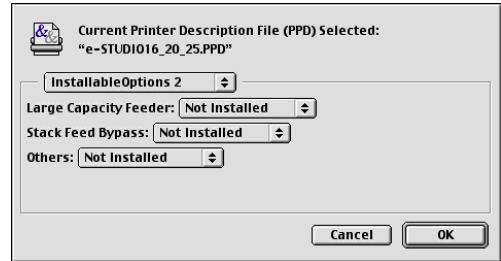
## 4

### Click on [OK].

- The "Installable Options" screen is closed.

## 5

### Exit the Chooser.



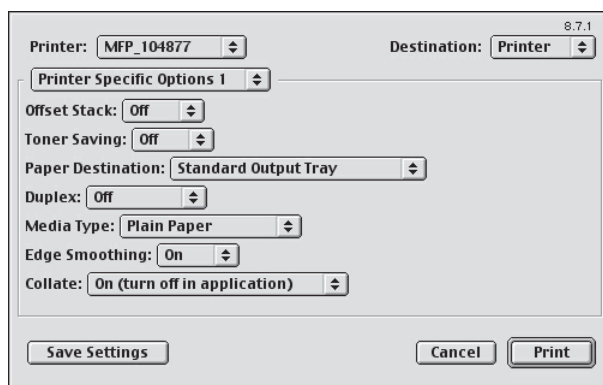
## Printer Specific Options

The Print screen is shown when [Print] is selected from the [File] menu.

Customizing the settings in the Print screen allows enlarged/reduced printing, layout printing, and so on. This section describes “Printer Specific Options”, specific to the e-STUDIO16/20/25.

### SUPPLEMENT:

The other settings of the driver should be performed in the LaserWriter setup. For further information on settings, please see the Macintosh manual or Help.



### Printer Specific Options 1

#### ① Offset Stack

Select On or Off to use the Offset Stack function for printing.

#### ② Toner Saving

Select On or Off to use the Toner Saving function for printing.

#### ③ Paper Destination

Select the destination of the output.

##### ● Standard Output Tray

As a default setting, this is selected. The printed paper is ejected into the general output tray.

##### ● Job Separator Upper Tray

The printed paper is ejected on to the Upper Tray of the Job Separator. This is available only when the Job Separator is installed.

##### ● Job Separator Lower Tray

The printed paper is ejected on to the Lower Tray of the Job Separator. This is available only when the Job Separator is installed.

##### ● Finisher Tray1

The printed paper is ejected on to the Upper Tray of the Finisher. This is available only when the Finisher is installed.

##### ● Finisher Tray2

The printed paper is ejected on to the Lower Tray of the Finisher. This is available only when the Finisher is installed.

#### ④ Duplex

Select duplex printing when data is to be printed on both sides of the paper. Select OFF to print on one side only.

- Booklet

When printing on both sides of the paper, the binding margin is set on the vertical side of the sheet.

- Tablet

When printing on both sides of the paper, the binding margin is set on the horizontal side of the sheet.

- Off

Select this not to print on both sides of the paper.

#### ⑤ Media Type

This sets the media type of the paper.

- Plain Paper

Select this when using the general plain paper.

- Envelopes

Select this when using envelopes. This is available only when the Bypass Tray is installed.

- Transparencies

Select this when using transparent sheets. This is available only when the Bypass Tray is installed.

- Labels

Select this when using label paper. This is available only when the Bypass Tray is installed.

- Cardstocks

Select this when using cardstock paper. This is available only when the Bypass Tray is installed.

- Letter Head

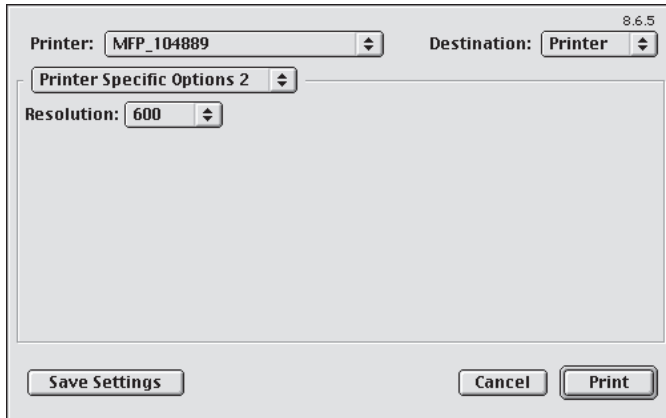
Select this when using letterhead paper. This is available only when A4 or LETTER is selected for the Paper Size.

#### ⑥ Edge Smoothing

Select On when the smoothing function is to be used. This is not available when "600dpi" is selected, even if it is set to On.

#### ⑦ Collate

Select On or Off to collate the output.



## Printer Specific Options 2

### ⑧ Resolution

This sets the resolution for printing.

NOTE: It is set at "600dpi" as a factory default.

- 600

Select this to print documents with an emphasis on resolution over speed.

- 300

Select this to print draft-like documents or documents with an emphasis on speed over resolution.





# NETPANEL FUNCTION

# INSTALLING NETPANEL

NetPanel is a Web Service Application that runs on a 32-bit Operating System and uses the TCP/IP protocol. Users can access it through a Web browser from any workstation that supports TCP/IP.

## Required Environments

### ● Hardware

CPU	: Pentium 66 or faster
RAM	: 32MB
Available Disk Space	: 25MB

### SUPPLEMENT:

The recommended hardware requirements are:

CPU	: Pentium 200
RAM	: 128MB

### ● Software

OS	: Windows NT4.0 Server and Workstation with service pack 3 or higher. Windows 2000 Server and Professional with service pack 1. Windows XP Home Edition and Professional
Service	: Microsoft Personal Web Server for Windows NT workstation 4.0 Microsoft Internet Information Server 4.0 or later for Windows NT Server 4.0 Microsoft Internet Information Server 5.0 or later for Windows 2000 Professional, Windows 2000 Server, Windows XP Home Edition, or Windows XP Professional
Web Browser	: Microsoft Internet Explorer 3.x or higher Netscape Navigator 3.x or higher

## Installing

The following describes how to install the NetPanel from the CD-ROM attached with the Printer Kit.

### SUPPLEMENTS:

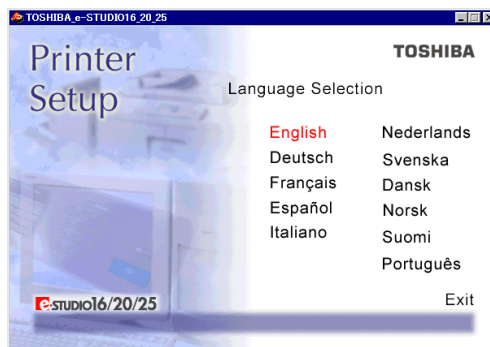
- To install the NetPanel to Windows NT4.0, "Full Control" access rights will be necessary. A log on must be performed as a member of the Administrators or Power Users group. For further details on access rights, see the Windows manual.
- Before installing the NetPanel to Windows NT4.0, Microsoft Personal Web Server (for Windows NT4.0 workstation) or Microsoft Internet Information Server (for Windows NT 4.0 Server) must be installed. These are included on the Windows NT4.0 Option Pack 4.0 CD-ROM that is provided from Microsoft. For further detail about the Windows NT4.0 Option Pack, see the Microsoft homepage.
- Before installing the NetPanel to Windows 2000 or Windows XP, Microsoft Internet Information Server 5.0 must be installed. These are included on the Windows 2000 or Windows XP CD-ROM.

### NOTE:

- Before installing the NetPanel, please be sure to exit from all programs in Windows.
- Before installing the NetPanel, make sure that an IP Address has been assigned to the e-STUDIO16/20/25 and the Windows NT 4.0 server or workstation.

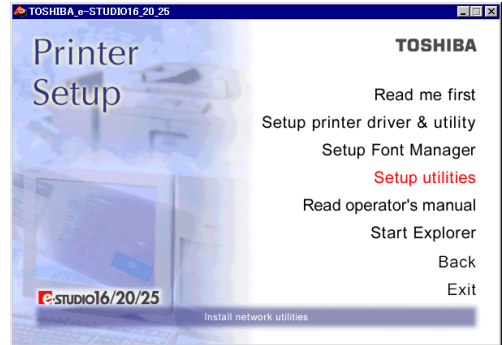
### 1 Insert the CD-ROM into the CD-ROM drive.

- The menu screen appears.
- If the menu screen is not automatically displayed, or when the NetPanel is installed via the network, double-click on "TOSHIBA\_e-STUDIO16\_20\_25.exe" in the Menu folder of the CD-ROM, which is found in Windows Explorer.

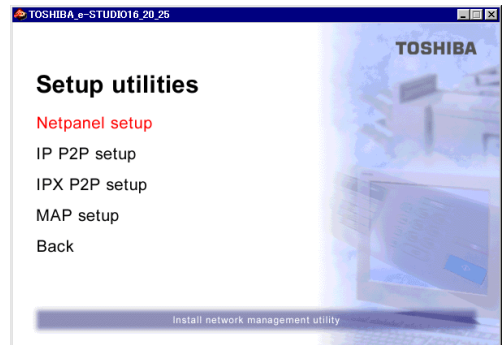


### 2 Click on a language of your Operating System.

**3** Click on [Setup utilities].



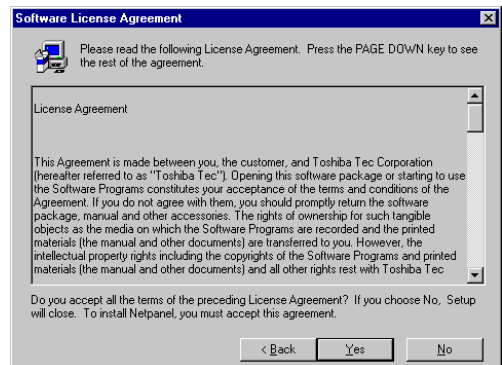
**4** Click on [Netpanel setup].  
● The welcome screen appears.



**5** Click on [Next].  
● The Software License Agreement screen appears.



**6** Click on [Yes].  
● The Choose Destination Location screen appears.



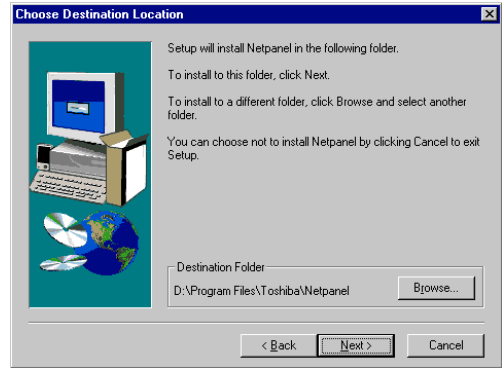
## 7 Select the drive and path for the components to be installed.

- [Browse...] button:

The Select Folder screen appears from which a folder can be selected or created to install the application.

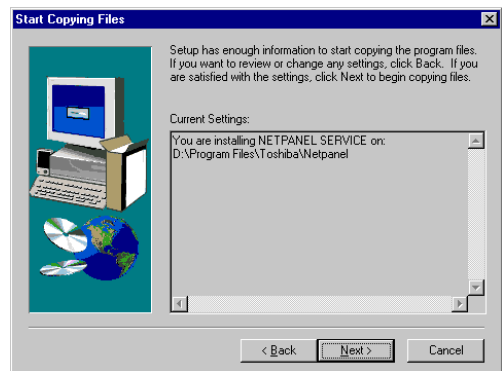
## 8 Click on [Next].

- The Start Copying Files screen appears.



## 9 Click on [Next].

- Start copying files.
- The IIS Virtual Directory screen appears after copying files is completed.

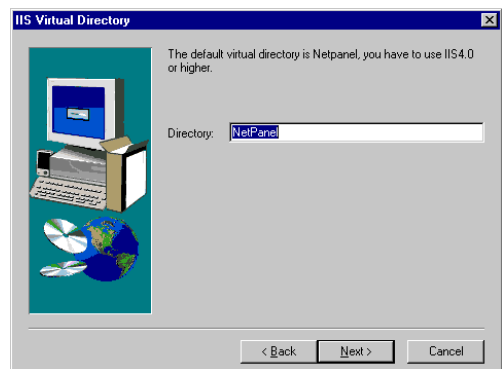


## 10 Enter the IIS virtual directory.

- The directory is automatically entered. Change the directory if required.

## 11 Click on [Next].

- The Question screen appears.

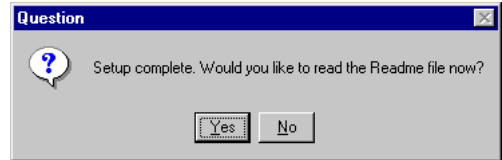


### SUPPLEMENT:

The entered value for the IIS Virtual Directory becomes part of the HTTP address for Netpanel. For example, if the directory name set to "NetPanel", the HTTP address of NetPanel is "http://xxx.xxx.xxx.xxx/NetPanel/cgi.exe" (where xxx.xxx.xxx.xxx is the IP address of the HTTP server that NetPanel has been installed on.)

## 12 Decide whether to read the Readme file at this time.

- When you click on [Yes], the Readme file is displayed.
- When you click on [No], the Readme file is not displayed.

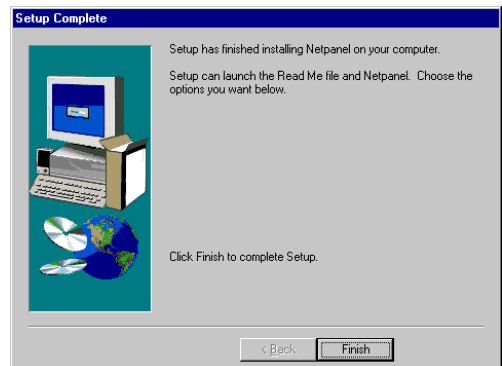


### SUPPLEMENT:

Wait for the Setup Complete screen to appear. It may take a few minutes while the system prepares to start the NetPanel service.

## 13 Click on [Finish].

## 14 Complete the installation.

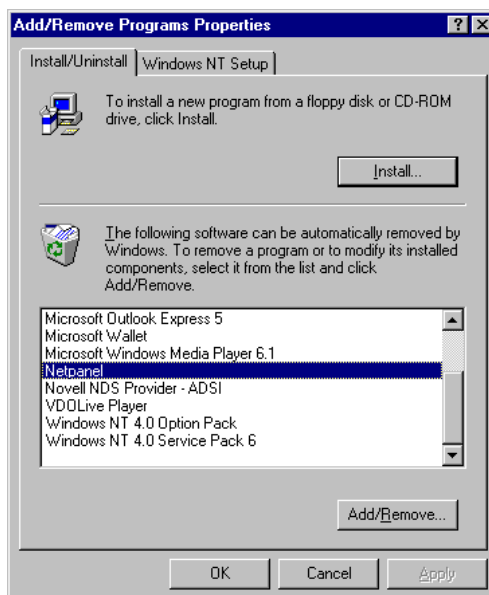


## Uninstalling

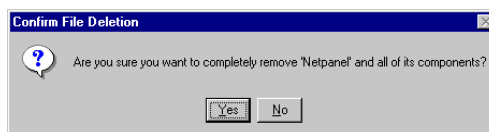
Be sure all users have exited from NetPanel before uninstalling the program.

- 1 Click on [Start], then select [Settings].
- 2 Select the [Control Panel].
- 3 Double-click on [Add/Remove Programs].
- 4 Select [Netpanel], then select [Add/Remove...].

- The message is displayed as in the figure.



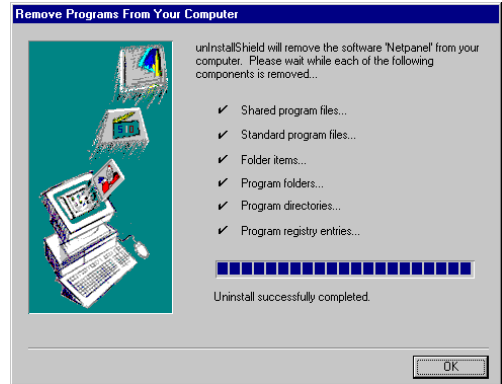
- 5 Click on [Yes].
  - The Remove Programs From Your Computer screen appears.



### SUPPLEMENT:

Windows may take a few minutes to remove the programs after the Remove Programs From Your Computer screen appears. Wait for the computer to remove all the components of the program.

## 6 Click on [OK].





# STARTING NETPANEL

The standard user has limited NetPanel functionality, although the Administrator can operate all functions in NetPanel.

NetPanel for a standard user:

- View the status, configuration, and capabilities of network printers.
- Quickly find the devices to be used. Users can search for printers based on criteria set by the Administrator.
- View the groups of printers the system administrator has setup, as well as watch the status of the printers.

NetPanel for Administrators:

- Remotely configure, and diagnose printers.
- Create printer groups, which allows for easier printer management.
- Manage groups of printers from a remote location, which provides you and your users with greater flexibility.
- Use the discover function to quickly find the printers to be used. You can search for printers based on certain criteria, such as Pages Per Minute (PPM), Status, Location, Description, etc.
- Server management of network printer resources, enables you to install, remove, and configure network printers shared through the server.

For the functions that can be operated by the standard users and the Administrators, refer to "OPERATING FLOW" in this chapter.

## Required Environments

NetPanel can be used in the following environments:

- WWW browser : Netscape Navigator 3.0 or later, or Internet Explorer 3.0 or later.  
The WWW browser should be installed separately.
- Protocol : TCP/IP  
Make sure that your computer can connect to the NetPanel server using the TCP/IP protocol.

### SUPPLEMENT:

Generally this applies to all operating systems that satisfy the requirements above. However, the pages may not be correctly displayed depending on the version or type of the Web browser and the Operating System.

## Browsing with NetPanel

1 Start the WWW browser.

2 Enter the URL in the Address entry field of the WWW browser, and press the Enter key.

- Enter "http://xxx.xxx.xxx.xxx/IIS Virtual Directory/cgi.exe".

"xxx.xxx.xxx.xxx" is the IP address of the server on which NetPanel is installed.

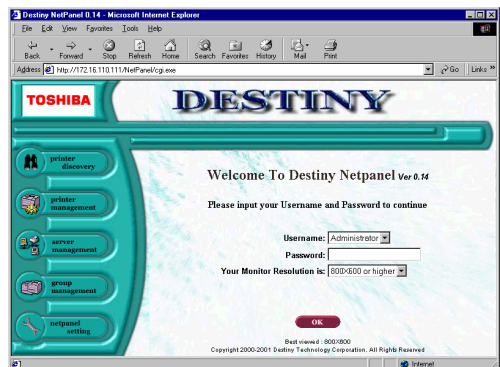
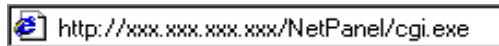
"IIS Virtual Directory" is the directory name that was assigned during the installation of NetPanel.

- You can enter the server name that NetPanel is installed on instead of the server IP address.

Example: http://Host/NetPanel/cgi.exe.

(when the server computer name is "Host" and the IIS Virtual Directory is "NetPanel".)

3 The log in page for NetPanel appears.



## Log in

When NetPanel is started, the log-in page is displayed. Log in to NetPanel as a Standard User or Administrator at this time.

### SUPPLEMENT:

Although the menu items are displayed, they will not become functional until after log in.

#### 1 Start NetPanel.

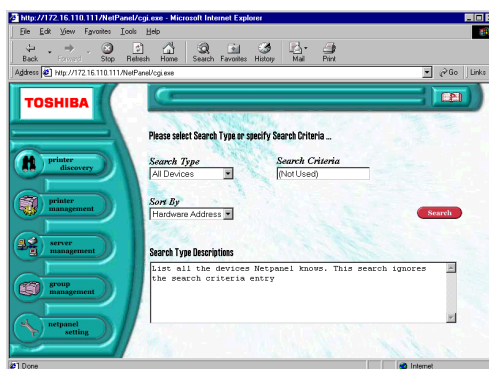
- Refer to “STARTING NETPANEL” at INSTALLING NETPANEL on how to start NetPanel.

#### 2 Select the Username and enter the password.

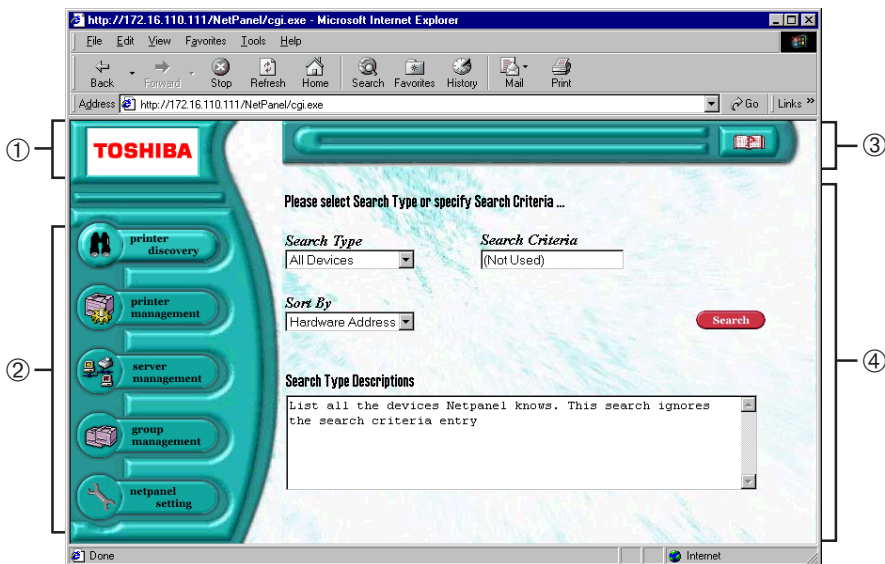
- The password is not required when you log in as a standard user.
- The password for the Administrator is not set the first time NetPanel is installed. An administrator can log in without entering the password the first time. You can set the password for an administrator under NetPanel Settings.
- Select a display resolution suitable for your monitor resolution.

#### 3 Click on [OK].

#### 4 The NetPanel for Standard User or Administrator is displayed.



# DESCRIPTION OF SCREEN



## ① Logo

Go to the worldwide TOSHIBA homepage (<http://www.toshiba.com/worldwide/>) by clicking on this.

## ② Topic bar

Lists the menu of the available functions.

- printer discovery** Click on this to establish the criteria for searching for printers, finding printers on the network, and for showing a list of current printers.
- printer management** Click on this to search for and configure printers on the network. You can also reset the printer, and configure the NIC and Novell NetWare settings.
- server management** Click on this to install or remove a printer on a print server. You can also manage the print jobs on the print servers.
- group management** Click on this to configure and modify the printer groups, such as adding/removing printers into/from a group and creating/deleting a group.
- netpanel setting** Click on this to set the administrators password and URL, refresh rates, printer database update, and discovery setting, etc.

## ③ Task bar

The control menus for the functions are displayed on the bar. Click on the button on the very right of the bar to display Help.

## ④ Browser Frame

Shows the details for each menu (printer discovery, printer management, server management, group management, and netpanel setting).

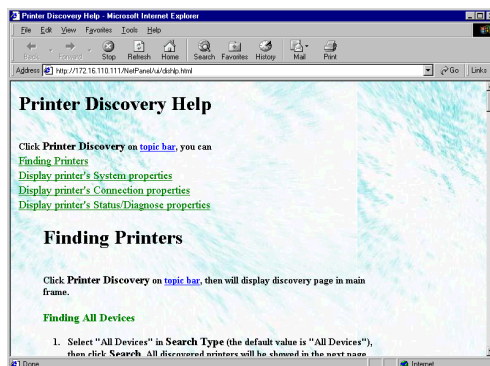
## Using Help

You can refer to Help when you need the descriptions or instructions for operating NetPanel.

- 1 Click on the Help button on the Control bar.



- 2 Open the Window and display Help.

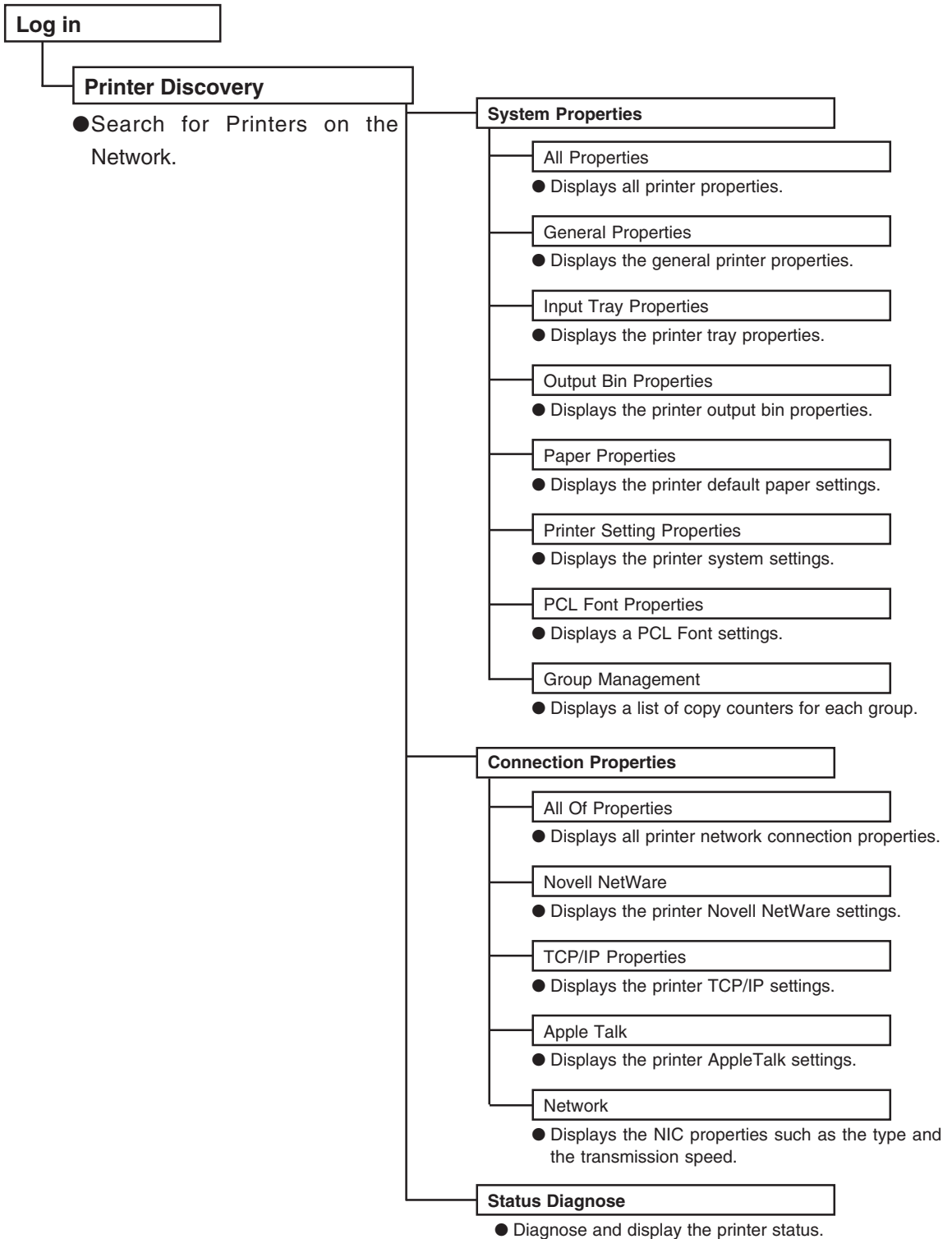


### SUPPLEMENTS:

- The Help button is on each page. Related help contents will be displayed depending on which page the help button is clicked from.
- If the "New Window for Help Document" option, from the NetPanel Setting / WNP Setting page, is set to disabled, then the Help pages are displayed without opening a new window.

# OPERATING FLOW

## For the Normal User



# For the Administrator

Log in

## Printer Discovery

- Search for Printers on the Network.

## System Properties

- All Properties
  - Displays all printer properties.
- General Properties
  - Displays the general printer properties.
- Input Tray Properties
  - Displays the printer tray properties.
- Output Bin Properties
  - Displays the printer output bin properties.
- Paper Properties
  - Displays the printer default paper settings.
- Printer Setting Properties
  - Displays the printer system settings.
- PCL Font Properties
  - Displays a PCL Font settings.
- Group Management
  - Displays a list of copy counters for each group.

## Connection Properties

- All Of Properties
  - Displays all printer network connection properties.
- Novell NetWare
  - Displays the printer Novell NetWare settings.
- TCP/IP Properties
  - Displays the printer TCP/IP settings.
- Apple Talk
  - Displays the printer AppleTalk settings.
- Network
  - Displays the NIC properties such as the type and the transmission speed.

## Status Diagnose

- Diagnose and display the printer status.

Continue to next page.

Continued from previous page.

## Printer Management

- Search for Printers on the Network.
- Configure the printer properties and print jobs.

### Reset Printer

- Cancel the print job currently processing.
- Reset the printer and NIC, or restore factory default settings.
- Print a test page.

### Printer Configure

#### General Properties

- Set the system location and contact.

#### Input Tray Properties

- Set the default input tray.

#### Output Bin Properties

- Set the output bin settings.

#### Paper Properties

- Set the default paper settings.

#### Printer Setting Properties

- Set the default system settings for printing.

#### PCL Font Properties

- Set the PCL Font settings for printing.

#### Group Management

- Reset the group counter.

### NIC Configure

#### Protocols Configuration

- Set whether to enable the protocols for TCP/IP, IPX/SPX, and AppleTalk.

#### IP Configuration

- Set the IP Address, Subnet Mask, and Default Gateway.

#### Apple Talk Configuration

- Set the Printer Name and Zone Name.

#### System Configuration

- Set the Frame type and the serial number.

### Novell Configure

#### Novell Configuration

- Set the NetWare Print Server configuration.

### Device Password

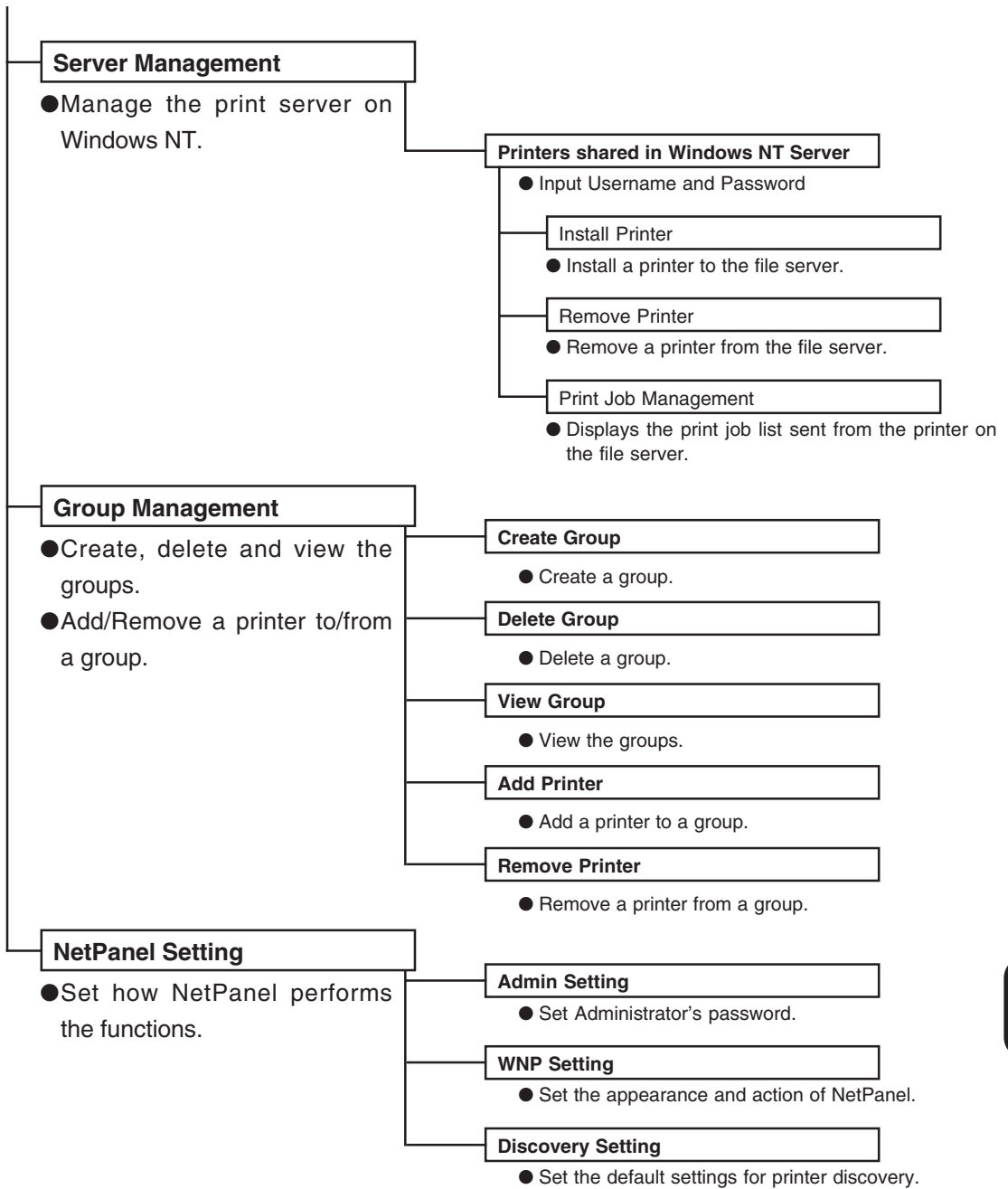
#### Device Password

- Change the device password.

Continue to next page.



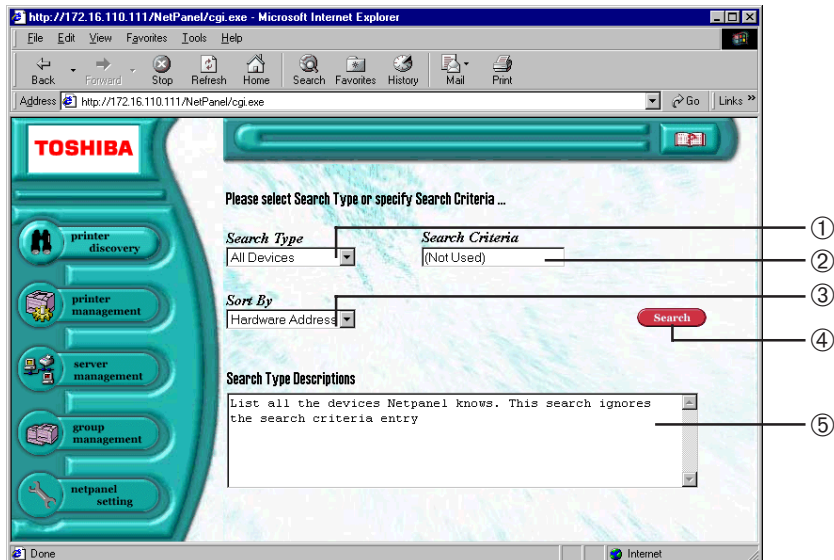
Continued from previous page.



# PRINTER DISCOVERY

This function is used to define printer search criteria, searching for printers within the defined criteria, and displaying properties for the selected printer.

## Printer Discovery Main Page



### ① Search Type

Select the type of criteria to use when searching for a printer. Enter the "Search Criteria" when you select a type other than "All Devices" or "All" in the Search Type box.

### ② Search Criteria

Enter the detail that defines the search criteria. This must be entered when a type other than "All Devices" or "All" is selected for the Search Type. The asterisk "\*" is automatically entered when the search criteria is required.

### ③ Sort by

Select how the list of results should be sorted.

### ④ [Search]

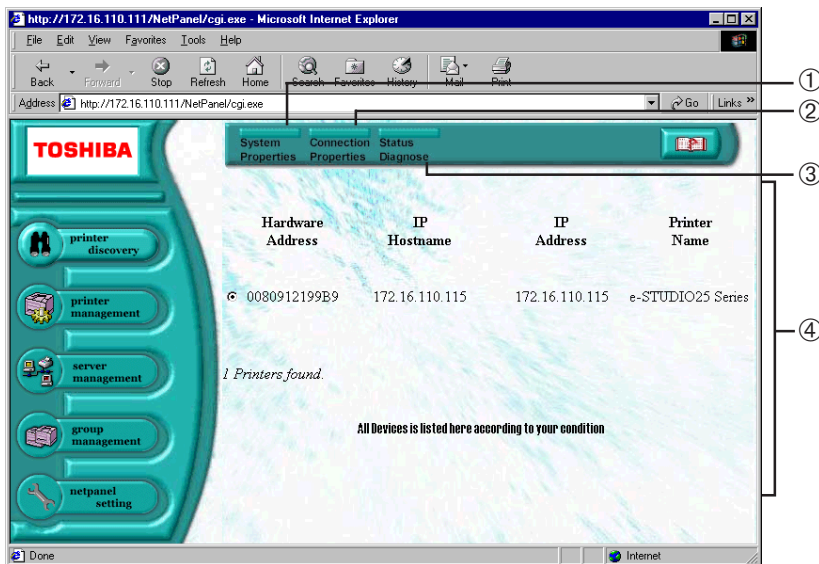
Click on this to begin searching for printers.

### ⑤ Search Type Descriptions

Shows a description for the search type selected.

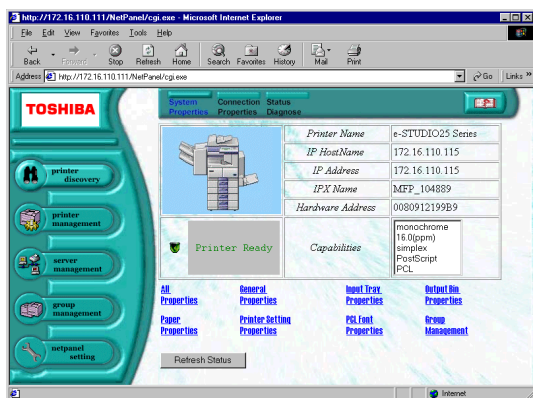
## Searching Result Display

After clicking [Search] on the Printer Discovery Main Page, the Search Results Display appears.



### ① [System Properties]

Displays the local system properties of the selected printer, such as the paper bin and output tray. You can display more information by clicking the links on the System Properties Display. The configuration for the System Properties Display is below.



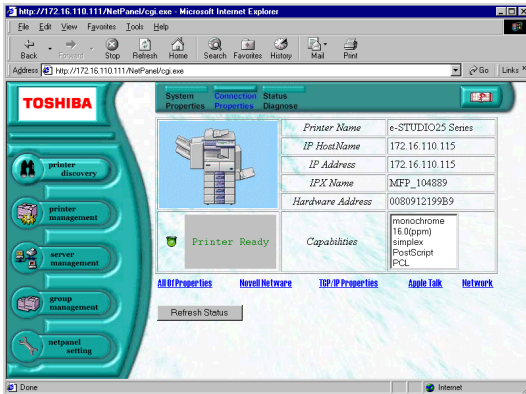
#### [Refresh Status]

Click on this to update the status. This button is not available when the Refresh Rate is set at the WNP Setting on the NetPanel Setting.

- All Properties  
Displays all printer properties.
- General Properties  
Displays the general printer properties.
- Input Tray Properties  
Displays the printer tray properties.
- Output Bin Properties  
Displays the printer output bin properties.
- Paper Properties  
Displays the printer default paper settings.
- Printer Setting Properties  
Displays the printer system settings.
- PCL Font Properties  
Displays the PCL Font settings.
- Group Management  
Displays a list of copy counters for each group.

## ② [Connection Properties]

Displays printer network connection properties for the selected printer, such as Novell NetWare or TCP/IP. You can display more information by clicking the links on the Connection Properties Display. The configuration for the Connection Properties Display is below.



### All Of Properties

Displays all printer network connection properties.

### Novell NetWare

Displays the Novell NetWare printer settings.

### TCP/IP Properties

Displays the TCP/IP printer settings.

### Apple Talk

Displays the AppleTalk printer settings.

### Network

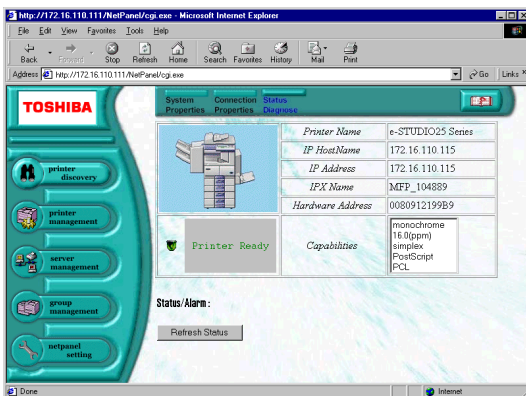
Displays the NIC properties, such as type and transmission speed.

[Refresh Status]

Click on this to update the status. This button is not available when the Refresh Rate is set at the WNP Setting on the NetPanel Setting.

## ③ [Status Diagnose]

Diagnose the selected printer and display the current printer status, such as a Paper Jam and/or Power Saving.



[Refresh Status]

Click on this to update the status. This button is not available when the Refresh Rate is set at the WNP Setting on the NetPanel Setting.

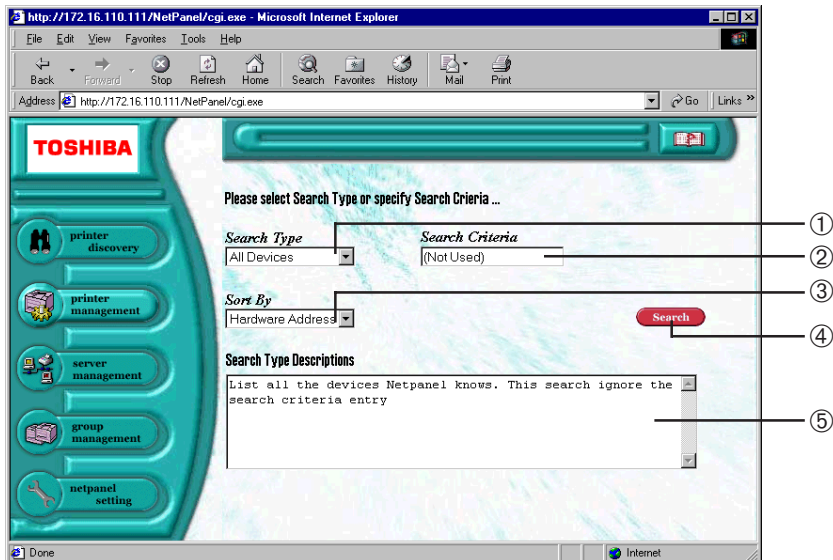
## ④ Search Result List

Displays the list of printers located according to your condition. Check the radio button on a printer you want to contact.

# PRINTER MANAGEMENT

This function is used to reset the printer to its factory default settings, configure the printer system settings, NIC settings, and NetWare settings. A printer must be selected to use this function.

## Printer Management Search Page



### ① Search Type

Select the type of criteria to use when searching for a printer. Enter the "Search Criteria" when you select a type other than "All Devices" or "All" for the Search Type. The Groups created from the Group Management function are added to the list.

### ② Search Criteria

Enter the detail that defines the search criteria. This must be entered when a type other than "All Devices" or "All" is selected for the Search Type. The asterisk "\*" is automatically entered when the search criteria is required.

### ③ Sort by

Select how the list of searching results is sorted.

### ④ [Search]

Click on this to begin searching for printers.

### ⑤ Search Type Descriptions

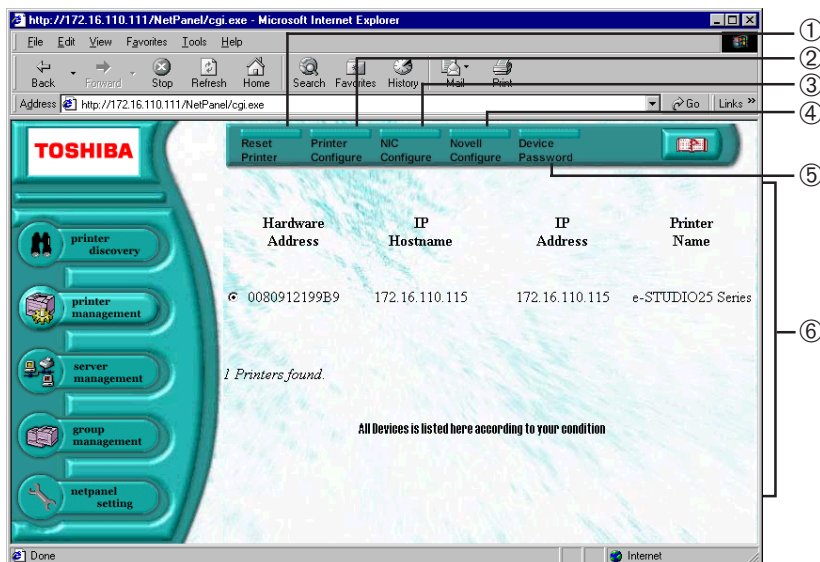
Show a description for the search type you selected.

### SUPPLEMENT:

This page is similar to the Printer Discovery Main Page. However, the search results displayed is different than the Printer Discovery Main Page.

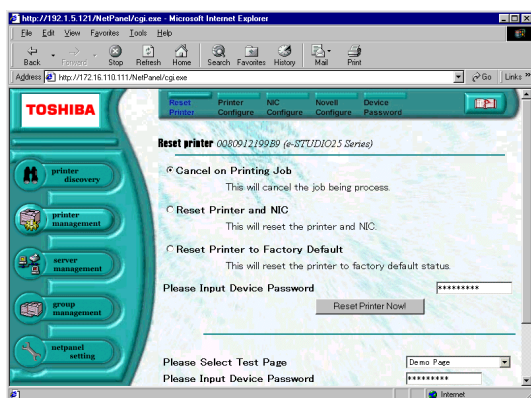
## Printer Management Main Page

After clicking [Search] on the Printer Management Search Page, the Printer Management Main Page appears.



### ① [Reset Printer]

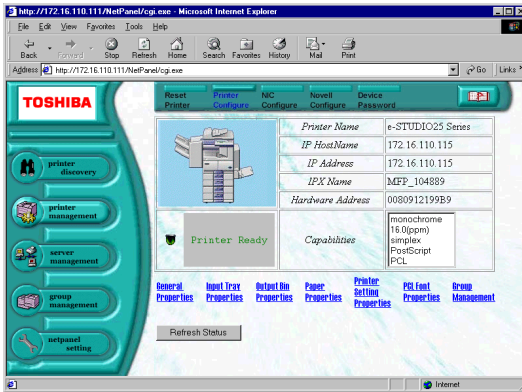
Click this to reset the printer, restore the printer to its factory default settings, cancel a print job in progress, and print test pages.



## ② [Printer Configure]

Click this to configure the local system properties, such as system location, input tray, output bin, paper, and system settings, for the selected printer.

After you modify the printer configuration, you must reset the printer to enable the settings.



[Refresh Status]

Click on this to update the status. This button is not available when the Refresh Rate is set at the WNP Setting on the NetPanel Setting.

### General Properties

Configure the system location and contact.

### Input Tray Properties

Select the default input tray.

### Output Bin Properties

Select the default output bin and options.

### Paper Properties

Set the default paper settings such as number of copies, default paper size, and duplex mode.

### Printer Setting Properties

Set the default printing methods.

### PCL Font Properties

Set the PCL settings such as orientation and PCL Font.

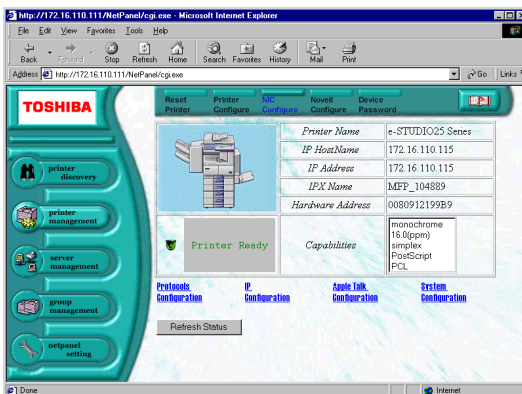
### Group Management

Reset the group counter.

## ③ [NIC Configure]

Click on this to configure the NIC settings, such as enabled protocols, IP address, frame type and serial number of the NIC.

After you modify the NIC configuration, you must reset the printer to enable the settings.



[Refresh Status]

Click on this to update the status. This button is not available when the Refresh Rate is set at the WNP Setting on the NetPanel Setting.

### Protocols Configuration

Select to enable or disable TCP/IP, IPX/SPX, and AppleTalk.

### IP Configuration

Assign the IP Address, Subnet Mask, and Default Gateway.

### Apple Talk Configuration

Set the printer name and the zone for AppleTalk.

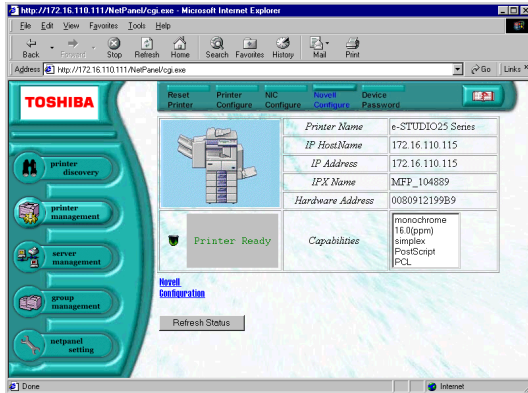
### System Configuration

Select the frame type and enter the Serial Number of the NIC.

#### ④ [Novell Configure]

Click on this to configure the NetWare configuration.

After you modify the Novell NetWare configuration, you must reset the printer to enable the settings.



#### Novell Configuration

Set the Novell NetWare settings, such as IPX/SPX Print Server Name, NetWare printer Server Context, NetWare NDS Tree Name, and Queue Server Job Polling Interval.

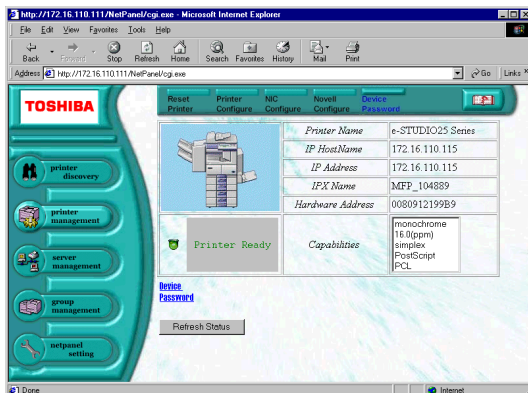
[Refresh Status]

Click on this to update the status. This button is not available when the Refresh Rate is set at the WNP Setting on the NetPanel Setting.

#### ⑤ [Device Password]

Click on this to change the device password.

After you modify the device password, you must reset the printer to enable the settings.



#### Device Password

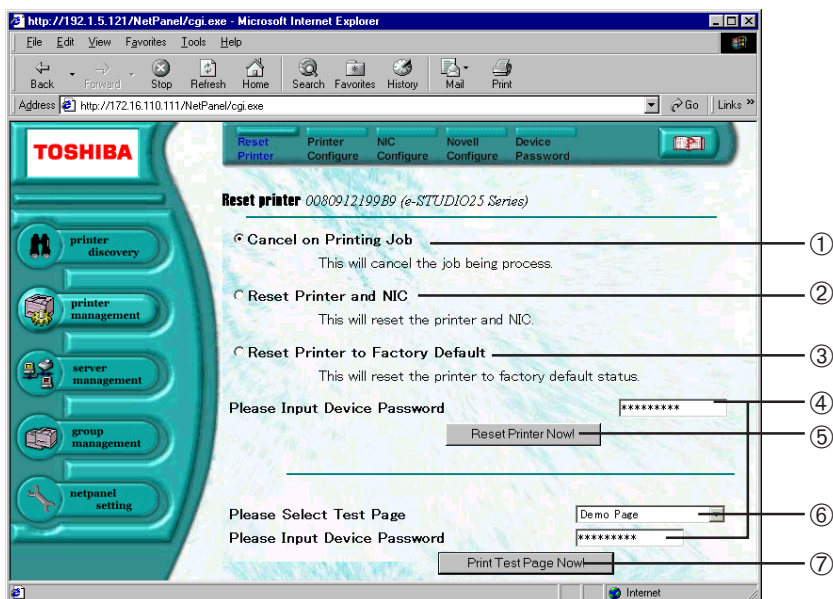
Change the device password to a new password you prefer. The current password has to be entered in order to change the password.

[Refresh Status]

Click on this to update the status. This button is not available when the Refresh Rate is set at the WNP Setting on the NetPanel Setting.



## Reset Printer and Test Print Page



### ① Cancel on Printing Job

Select this to cancel the print job currently in progress.

### ② Reset Printer and NIC

Select this to reset the printer and NIC.

### ③ Reset Printer to Factory Default

Select this to reset the printer to factory default settings.

### ④ Device Password

The device password is required to reset the machine. The device password is automatically entered in the field.

### ⑤ [Reset Printer Now!]

Click on this to reset the printer.

### ⑥ Please Select Test Page

Select the test page that you want to print.

### ⑦ [Print Test Page Now!]

Click on this to print a test page.

## Reset a Printer and NIC

After you modify the configuration of the printer, NIC, Novell NetWare setting, or device password setting, you must restart the printer to enable the modified settings.

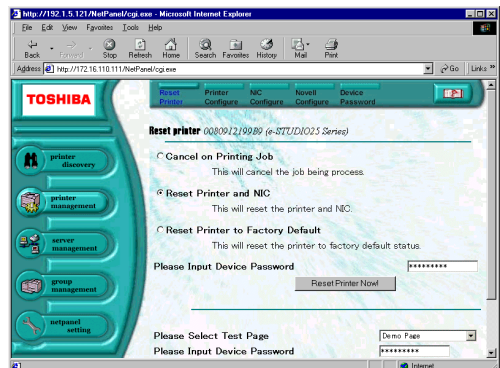
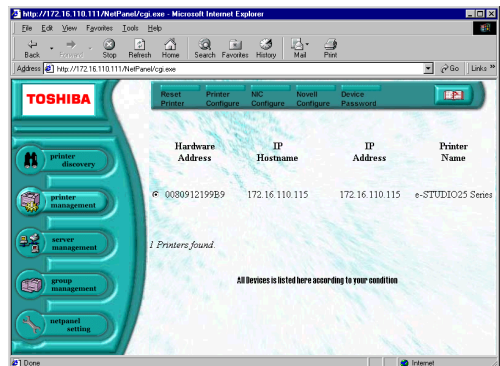
1 Select the printer that you want to contact.

2 Click on [Reset Printer] on the Task bar.

3 Select "Reset Printer and NIC".  
● The device password is automatically entered in the field, so that do not change the value.

4 Click on [Reset Printer Now!].

5 The operating result is displayed.  
● Please make sure that the operation has been performed successfully.



## Print a Test Page

After you modify the configuration and reset the printer, you can print a test page to confirm that the configuration has been modified.

1 Select the printer that you want to contact.

2 Click on [Reset Printer] on the Task bar.

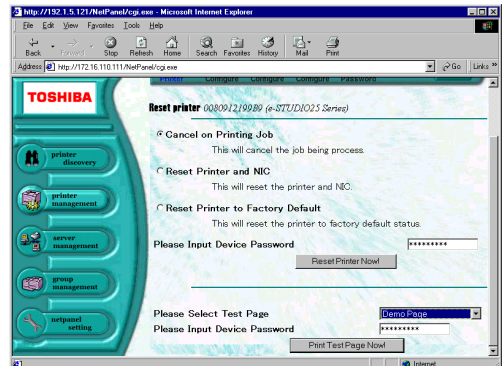
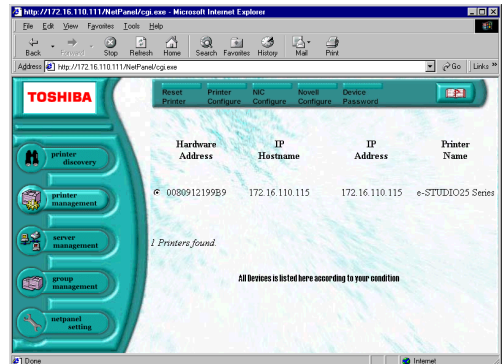
3 Select desired test page.

- The device password is automatically entered in the field, so that do not change the value.

4 Click on [Print Test Page Now!].

5 The operating result is displayed and the test print page is printed.

- Please make sure that the operation has been performed successfully.



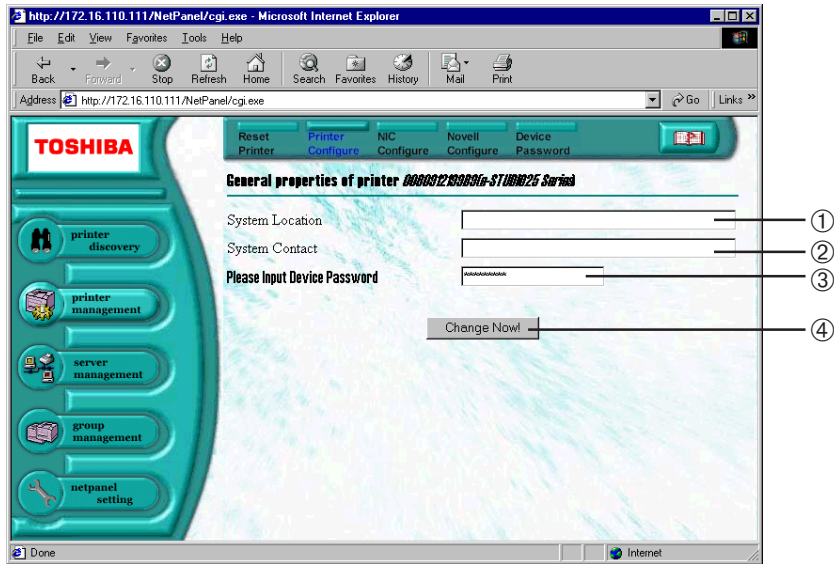
### SUPPLEMENT:

See "SPECIFICATIONS AND OTHER INFORMATION - TEST PAGE SAMPLE" for a sample of the test pages.

# Printer Configure

You can operate the following functions by clicking each link on the Printer Configure Display.

## General Properties



### ① System Location

Enter the location of the printer to obtain information from.

### ② System Contact

Enter the contact information.

### ③ Device Password

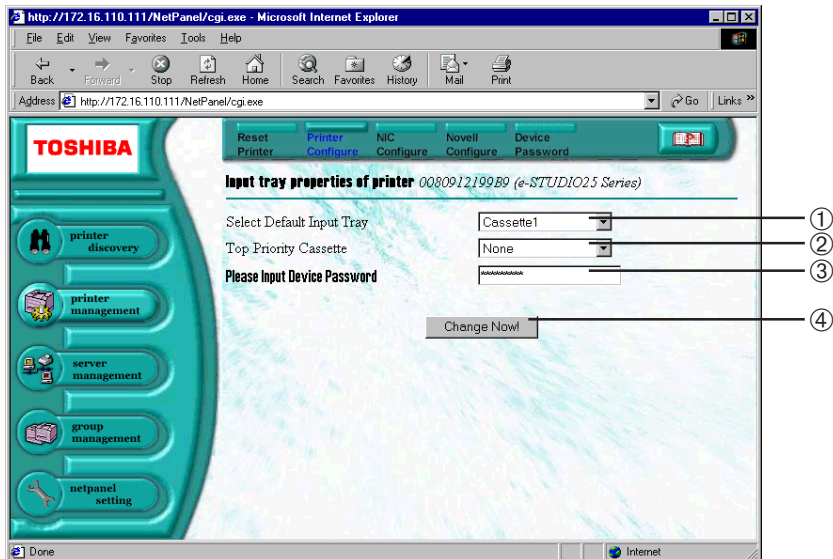
The device password is required to save changes. The device password is automatically entered in the field.

### ④ [Change Now!]

Click on this to save changes.

## Input Tray Properties

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



### ① Select Default Input Tray

Select the default Input Tray.

NOTE: It is set to "Auto select" as a factory default.

### ② Top Priority Cassette

This sets the priority of the cassette to be used for printing. The cassette selected here is used to print before other cassettes when the Paper Source is set to AUTO.

NOTE: It is set to "OFF" as a factory default.

### ③ Device Password

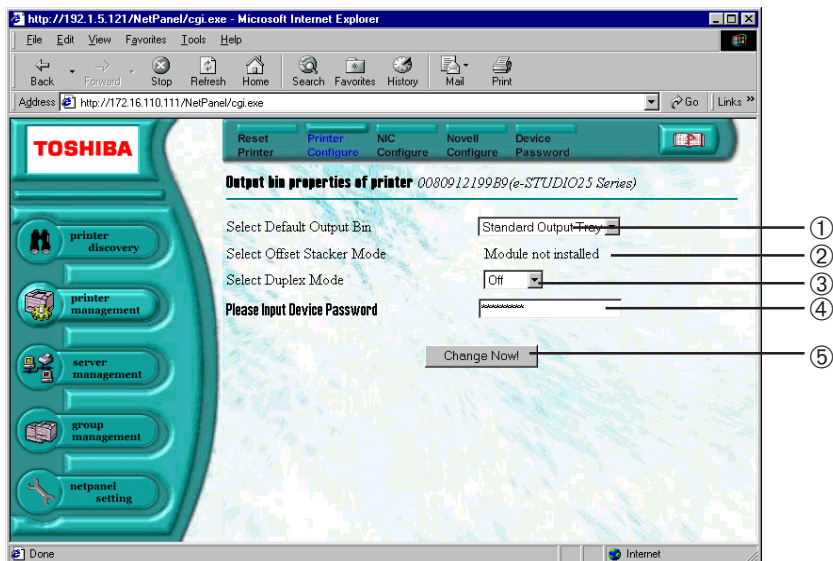
The device password is required to save changes. The device password is automatically entered in the field.

### ④ [Change Now!]

Click on this to save changes.

## Output Bin Properties

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



### ① Select Default Output Bin

Select the default Output Bin.

### ② Select Offset Stacker Mode

Select ON when the Offset Stacker function is used for printing. This is available only when the Offset Stacker is installed. If not, a "Module not installed" message is displayed.

### ③ Select Duplex Mode

Select ON when the Duplex function is used for printing. This is available only when the Duplex Unit is installed. If not, a "Module not installed" message is displayed.

### ④ Device Password

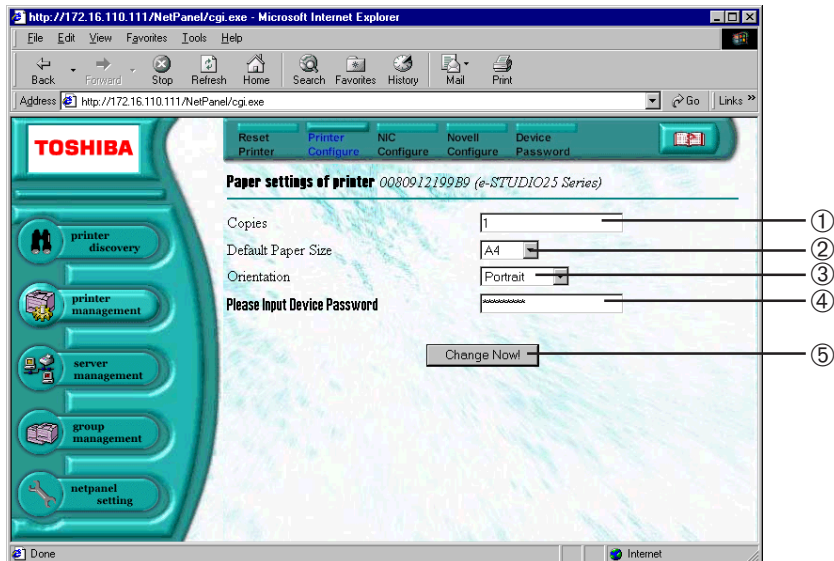
The device password is required to save changes. The device password is automatically entered in the field.

### ⑤ [Change Now!]

Click on this to save changes.

## Paper Properties

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



### ① Copies

Enter the default number of copies to be printed.

NOTE: It is set to "1" as a factory default.

### ② Default Paper Size

Select the default paper size.

### ③ Orientation

This sets the paper printing direction to either "Portrait" or "Landscape."

NOTE: It is set to "Portrait" as a factory default.

### ④ Device Password

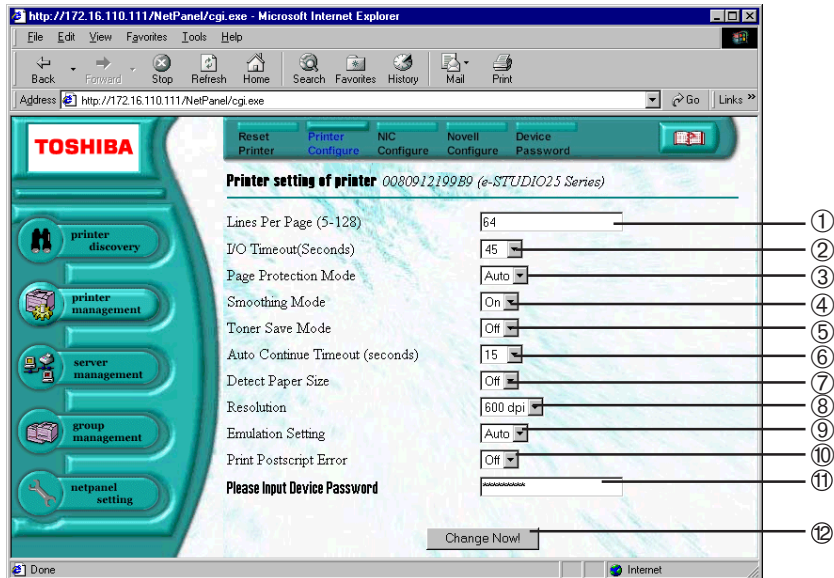
The device password is required to save changes. The device password is automatically entered in the field.

### ⑤ [Change Now!]

Click on this to save changes.

## Printer Setting Properties

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



### ① Lines Per Page

Select the number of lines which can be printed on one page. This only applies when printing text documents from an application which does not utilize a page setup feature. (i.e. The text is printing from MS-DOS.)

NOTE: It is automatically set depending on the paper size.

The Default of Line/Page depending on the Paper Sizes

Orientation Paper Size	Portrait	Landscape
A3	93	64
A4	64	43
A5	43	28
B4	79	54
LETTER	60	45
FOLIO	71	43
LEGAL	78	45
LEDGER	96	60
COMPUTER	84	60
STATEMENT	45	27



## ② I/O Timeout

This sets the time interval that the printer will wait if a print job is interrupted. The Auto Continue setting determines what to do with the interrupted print job.

NOTE: It is set to "45" as a factory default.

## ③ Page Protection Mode

A data overrun may occur during the printing operation when there is a large amount print data on a page. The printer can not process the data in time and therefore stops printing. In order to avoid data overrun errors, page protection reserves additional memory for page processing and will wait until the page is fully composed before printing the page.

- Auto      The printer analyzes each page and turns on page protection automatically only when it is required.
- On         The printer always keeps sufficient memory reserved to ensure that a page can be fully composed.

## ④ Smoothing Mode

This allows the smoothing feature to be used when printing. (This only applies when printing is performed without the printer driver.)

NOTE: It is set to "On" as a factory default.

## ⑤ Toner Save Mode

This sets the toner save feature to be used when printing. This only applies when printing is performed without the printer driver.

NOTE: It is set to "Off" as a factory default.

## ⑥ Auto Continue Timeout

This sets the duration that the printer will attempt to self-recover from printer or print job errors.

NOTE: It is set to "15" as a factory default.

## ⑦ Detect Paper Size

This detects the paper size error before printing unless the paper size in the tray is matched to the document size. When this is set to OFF, the machine does not display the paper size error message and prints the document. When this is set to ON, the machine displays the paper size error message before printing the document if it does not match the paper size in the tray.

NOTE: It is set to "OFF" as a factory default.

## ⑧ Resolution

This sets the resolution for printing.

NOTE: It is set at "600dpi" as a factory default.

- 600dpi  
Select this to print documents with an emphasis on resolution over speed.
- 300dpi  
Select this to print draft-like documents or documents with an emphasis on speed over resolution.

## ⑨ Emulation Setting

Select the emulation to be used for printing.

NOTE: It is set with "Auto" as a factory default.

- Auto      The machine automatically chooses the emulation mode that is suited to the document to be printed.
- PCL      The machine always uses the PCL emulation when printing is performed without the printer driver.
- PS      The machine always uses the PS emulation when printing is performed without the printer driver.

## ⑩ Print Postscript Error

Set this to print a PostScript Error Report when an error occurs during printing with the PS driver.

NOTE: It is set to "Off" as a factory default.

## ⑪ Device Password

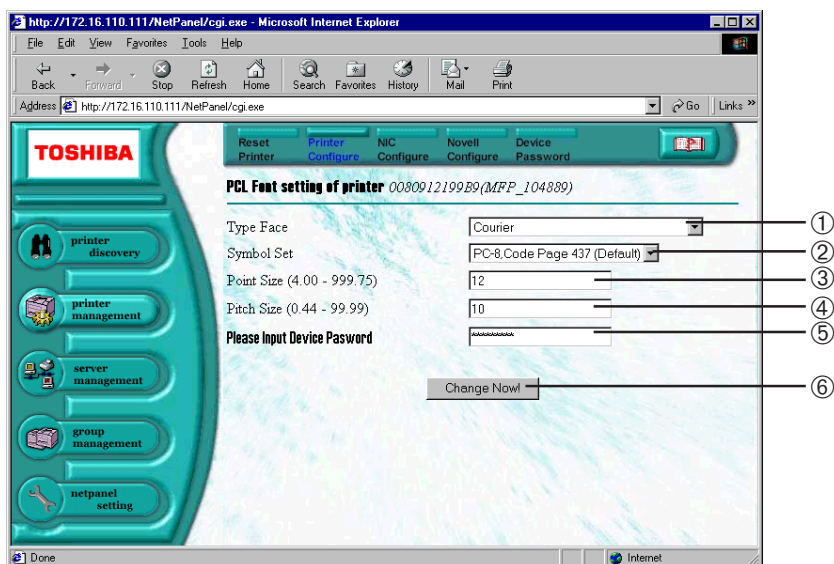
The device password is required to save changes. The device password is automatically entered in the field.

## ⑫ [Change Now!]

Click on this to save changes.

## PCL Font Properties

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



### ① Type Face

Selects a font to use when printing.

### ② Symbol Set

Selects the symbol set to use when printing.

### ③ Point Size

This sets the point size for the selected font. This setting applies when a proportional font has been selected from the Typeface option.

### ④ Pitch Size

This sets the pitch size for the selected font. This setting applies when a non-proportional font has been selected from the Typeface option.

### ⑤ Device Password

The device password is required to save changes. The device password is automatically entered in the field.

### ⑥ [Change Now!]

Click on this to save changes.

# Group Management

Group management information of printer 0080912199B9 (e-STUDIO25 Series)

Group ID	Count of Group	Reset
1	208	<input type="checkbox"/>
2	0	<input type="checkbox"/>
3	0	<input type="checkbox"/>
4	0	<input type="checkbox"/>
5	0	<input type="checkbox"/>
6	0	<input type="checkbox"/>
7	0	<input type="checkbox"/>
8	0	<input type="checkbox"/>
9	0	<input type="checkbox"/>
10	0	<input type="checkbox"/>
20	5632	<input type="checkbox"/>
Other	51	<input type="checkbox"/>

Total Count of Printer Controller: 71936

Please Input Device Password

Reset Checked Group Counter!

## ① Group ID

Displays the list of group numbers.

## ② Count of Group

Displays the number of pages printed for each group.

## ③ Reset

Check the check box of the groups whose counters you want to reset.

## ④ Total Count of Printer Controller

Displays the total number of pages printed through the printer controller.

## ⑤ Device Password

The device password is required to save changes. The device password is automatically entered in the field.

## ⑥ [Reset Checked Group Counter!]

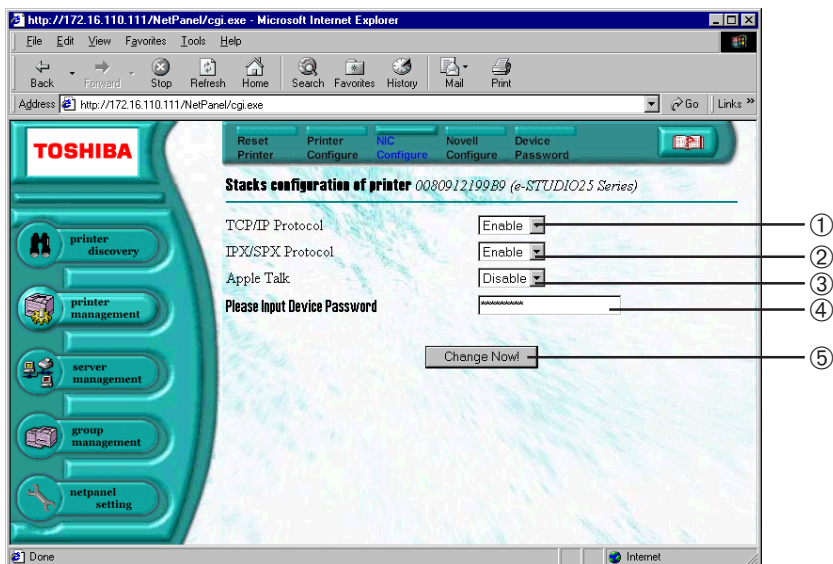
Click on this to reset the counters of the selected groups.

## NIC Configure

You can operate the following functions by clicking each link on the NIC Configure Display.

### Protocols Configuration

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



#### ① TCP/IP Protocol

Select whether to "Enable" or "Disable" network communications using the TCP/IP protocol.

NOTE: It is set to "Enable" as a factory default.

#### ② IPX/SPX Protocol

Select whether to "Enable" or "Disable" network communications using the IPX/SPX protocol.

NOTE: It is set to "Enable" as a factory default.

#### ③ AppleTalk

Select whether to "Enable" or "Disable" network communications on an AppleTalk network.

NOTE: It is set to "Disable" as a factory default.

#### ④ Device Password

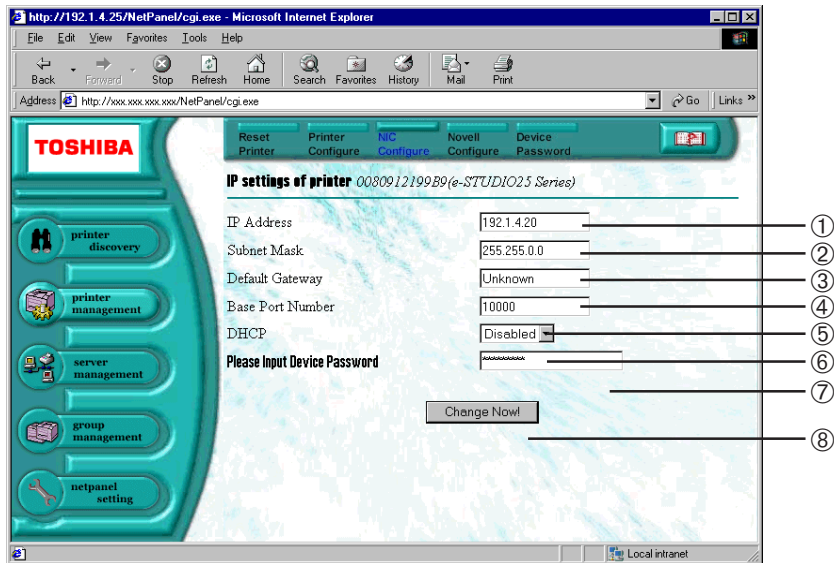
The device password is required to save changes. The device password is automatically entered in the field.

#### ⑤ [Change Now!]

Click on this to save changes.

## IP Configuration

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



### ① IP Address

Enter the IP Address to be assigned to the printer. "0.0.0.0" cannot be assigned as the IP Address.

### ② Subnet Mask

Enter the Subnet Mask corresponding to the IP Address. "255.255.255.255" and "0.0.0.0" cannot be assigned as the Subnet Mask.

### ③ Default Gateway

Enter the IP Address of the router if the printer is to be accessed from a network outside the router.

### ④ Base Port Number

Enter the base port number.

### ⑤ DHCP

Select whether to "Enable" or "Disable" obtaining an IP address from the DHCP server.

NOTE: It is set to "Enabled" as a factory default.

### ⑥ Device Password

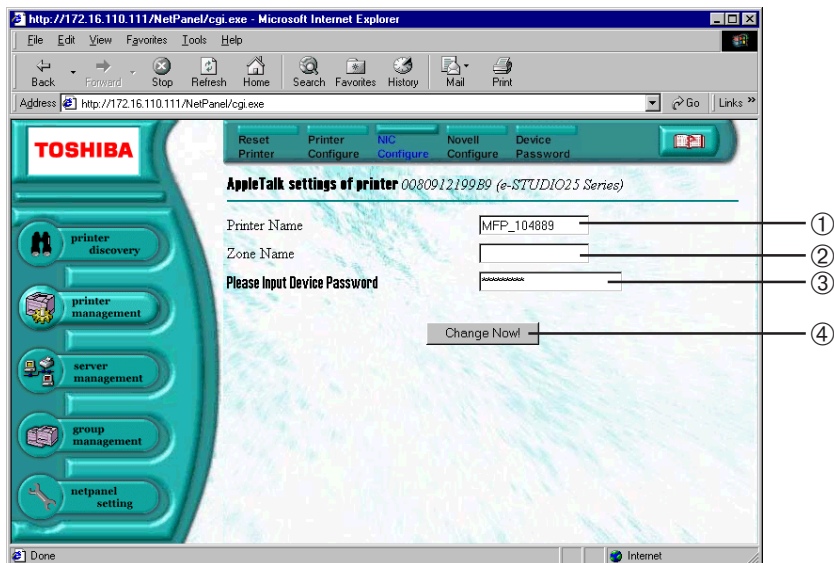
The device password is required to save changes. The device password is automatically entered in the field.

### ⑦ [Change Now!]

Click on this to save changes.

## Apple Talk Configuration

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



### ① Printer Name

Enter the printer name for AppleTalk.

### ② Zone Name

Enter the name of the zone in which the machine is located.

### ③ Device Password

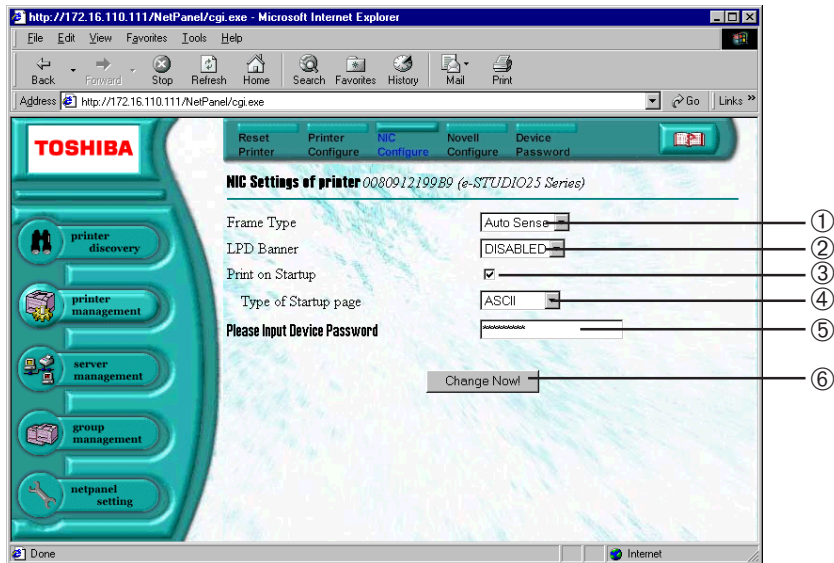
The device password is required to save changes. The device password is automatically entered in the field.

### ④ [Change Now!]

Click on this to save changes.

## System Configuration

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



### ① Frame Type

Select the frame type of the NIC.

NOTE: It is set to "Auto Sense" as a factory default.

### ② LPD Banner

Select whether to "Enable" or "Disable" printing of a banner page. The banner page has information about the print job, such as who printed the document and what was printed. The banner page can be printed when printing is performed in an LPR connection. The sample for the LPD banner page is below.

NOTE: It is set to "Disabled" as a factory default.

#### ● LPD Banner Page





### ③ **Print on Startup**

Check this to print a NIC status sheet every time the NIC starts up.

NOTE: It is set at "on" as a factory default.

### ④ **Type of Startup page**

Select the type of startup page.

NOTE: It is set to "ASCII" as a factory default.

### ⑤ **Device Password**

The device password is required to save changes. The device password is automatically entered in the field.

### ⑥ **[Change Now!]**

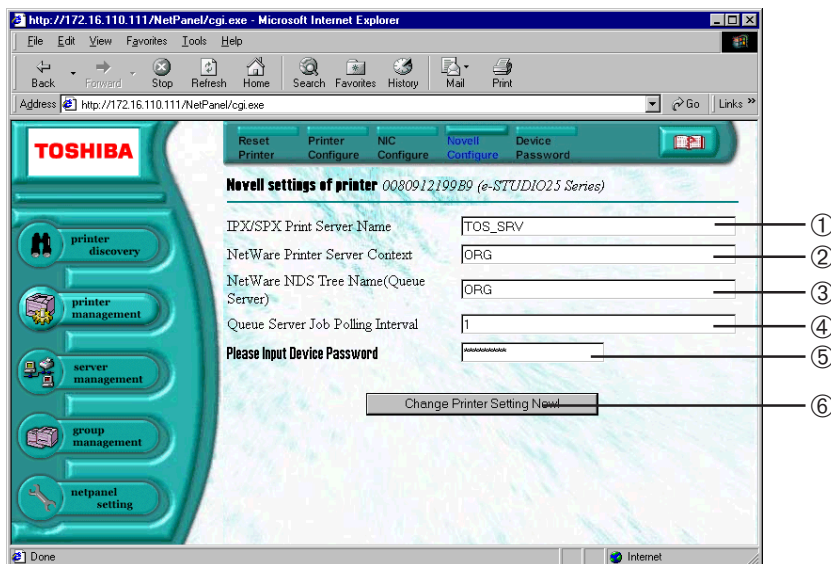
Click on this to save changes.

## Novell Configure

You can operate the following functions by clicking a link on the Novell Configure Display.

### Novell Configuration

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



#### ① IPX/SPX Print Server Name

Enter the name of the print server to be created. It must match the setting from NetWare.

NOTE: It is set with "MFP\_XXXXXX" when shipped from the factory (where "XXXXXX" is the serial number of the NIC). This name is assigned as the printer's port name when the Peer-to-Peer utility (IPX/SPX) is used.

#### ② NetWare Printer Server Context

Enter the NDS Context. It is available only in NDS mode.

#### ③ NetWare NDS Tree Name

Enter the NDS tree name. It is available only in NDS mode.

#### ④ Queue Server Job Polling Interval

Enter the time interval in seconds for the print server to scan the print queues.

NOTE: It is set to "1" as a factory default.

#### ⑤ Device Password

The device password is required to save changes. The device password is automatically entered in the field.

#### ⑥ [Change Now!]

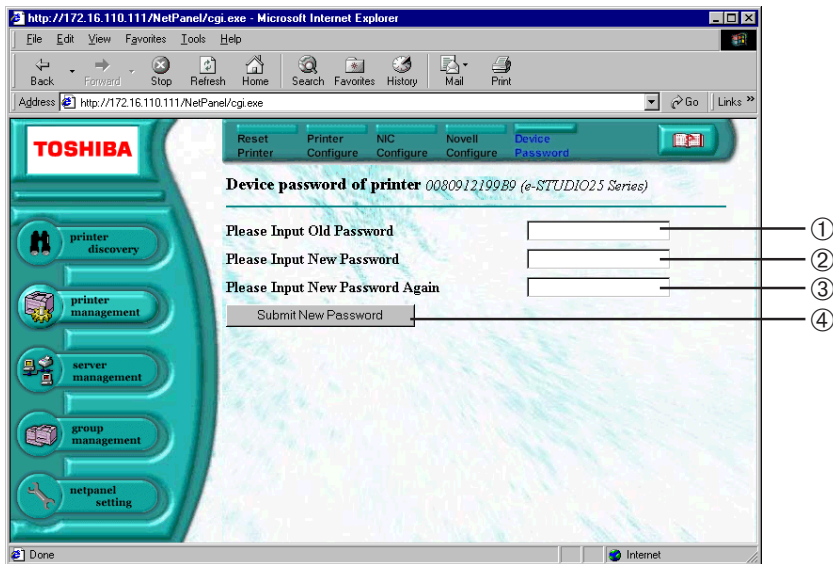
Click on this to save changes.

## Device Password

You can operate the following functions by clicking a link on the Device Password Display.

### Device Password

After you modify the settings, please perform a "Printer Reset to PowerOn" to enable the new settings.



#### ① Please Input Old Password

Enter the current password.

NOTE: The device password is "private" as a factory default.

#### ② Please Input New Password

Enter a new password.

#### ③ Please Input New Password Again

Confirm the new password by entering it again.

#### ④ [Submit New Password]

Click on this to submit the new password.

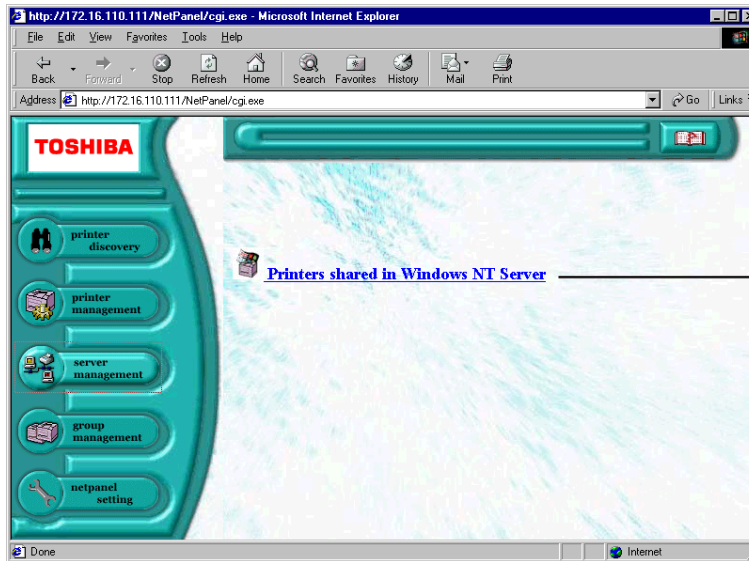
#### NOTE:

Only non-capital letters can be used for the Device Password.

# SERVER MANAGEMENT

This function is used to install or remove a printer on a File server, and manage print jobs in progress. The NetPanel supports only a Windows NT server.

## Server Management Main Page

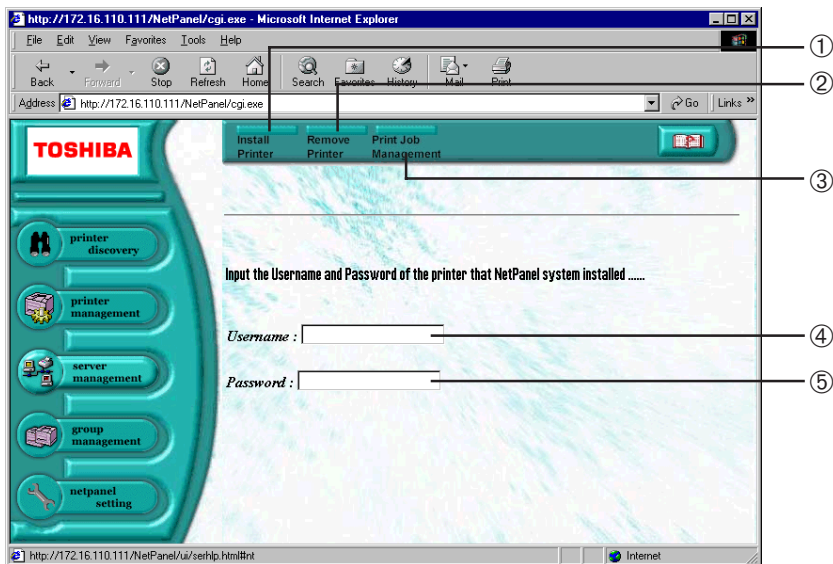


### ① Printers shared in Windows NT Server

Select this to use a Windows NT Server which has NetPanel installed and acts as a print server. The Server Management Main Page of Windows NT Server is displayed.

## Server Management Main Page of Windows NT Server

You must enter a Windows NT Username and Password to operate the functions.



### ① [Install Printer]

Click this to install a printer to the Windows NT server that NetPanel is installed on.

### ② [Remove Printer]

Click this to uninstall a printer from the Windows NT server that NetPanel is installed on.

### ③ [Print Job Management]

Click this to display the print jobs being processed on a selected printer. You can also cancel the print jobs.

### ④ Username

Enter the Username for the Windows NT Server that NetPanel is installed on. You should enter the Username and Password to enable installing/uninstalling of the printer and Print Job management.

### ⑤ Password

Enter the password for the Windows NT Server that NetPanel is installed on. You should enter the Username and Password to enable installing/uninstalling of the printer and Print Job management.

## Install a Printer to a File Server

This function allows system administrators to remotely create print shares on existing print servers. Once installed, users can connect to and send print jobs to network-connected printers.

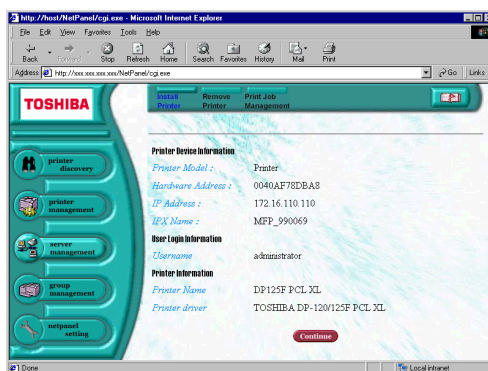
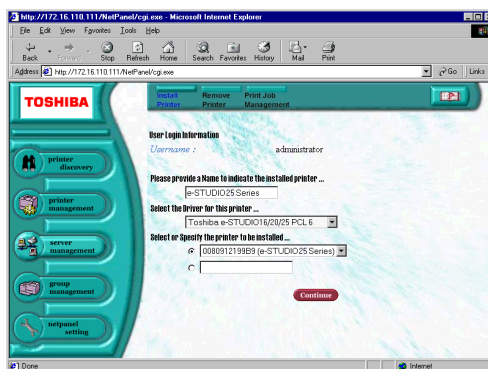
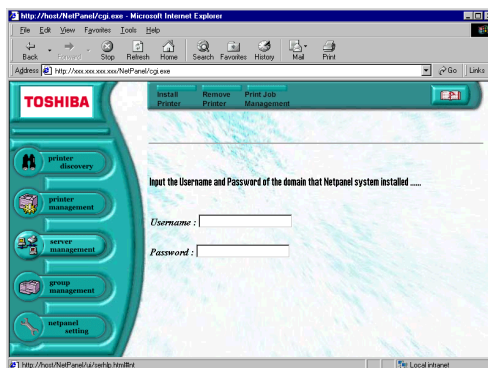
- 1 Enter Username and Password.**
  - The Username and Password for the Windows NT Server where NetPanel is installed.

- 2 Click on [Install Printer] on the Task bar.**

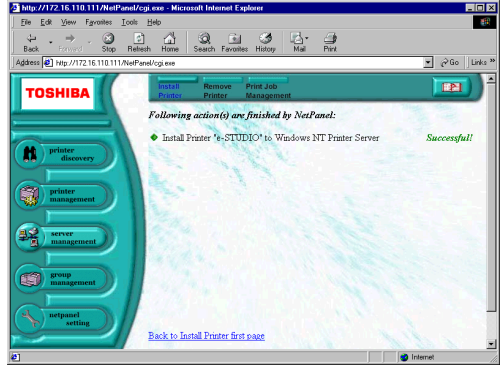
- 3 Enter a name to indicate the installed printer, select the printer driver for this printer, and select or specify the printer.**

- 4 Click on [Continue].**
  - The confirmation of the printer details is displayed.

- 5 Click on [Continue].**



# 6 The printer is installed to the File Server.



## Remove a Printer from a File Server

This function allows system administrators to remotely remove a printer from a File Server. Once removed, users can no longer connect and print to the printer from the selected print server.

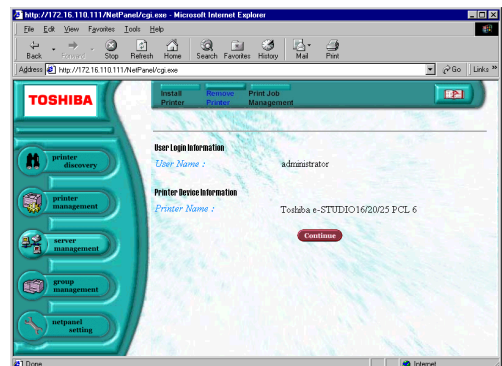
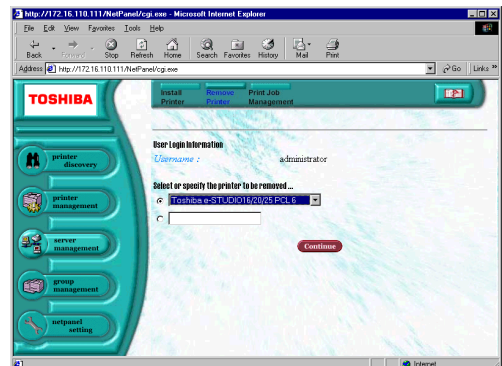
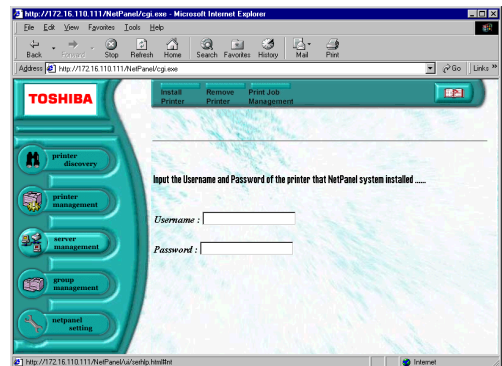
- 1 Enter Username and Password.**
  - The Username and Password for the Windows NT Server where NetPanel is installed.

- 2 Click on [Remove Printer] on the Task bar.**

- 3 Select or specify the printer.**

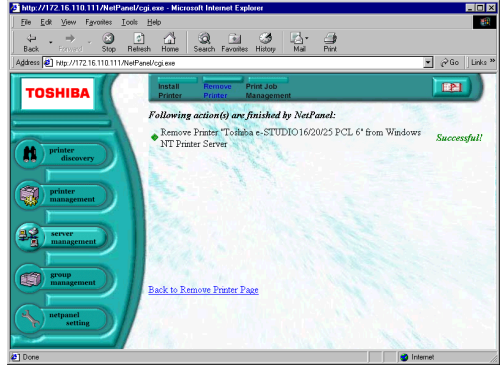
- 4 Click on [Continue].**
  - The confirmation of the printer details is displayed.

- 5 Click on [Continue].**





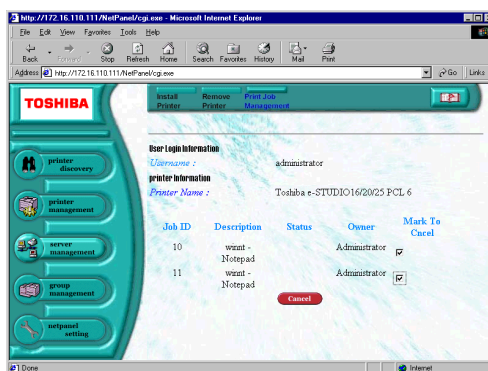
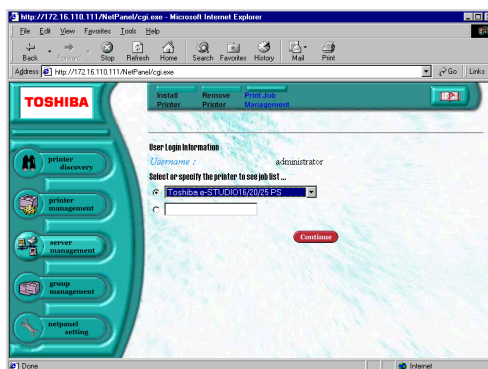
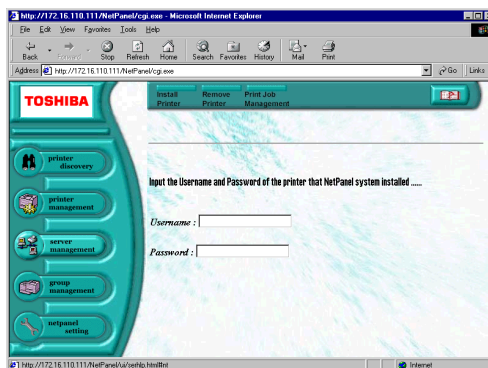
# 6 The printer is removed from the File Server.



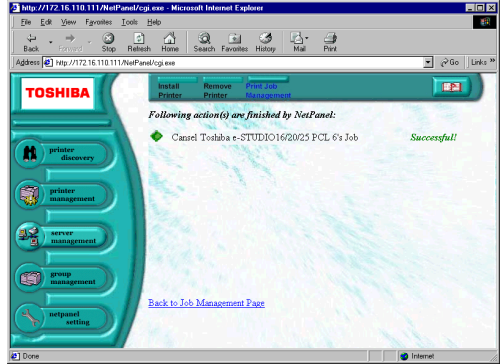
## Deleting Print Jobs

This function allows system administrators to remotely cancel print jobs in progress on the Windows NT Print Server.

- 1 Enter Username and Password.**
  - The Username and Password for the Windows NT Server where NetPanel is installed.
- 2 Click on [Print Job Management] on the Task bar.**
- 3 Select or specify the printer.**
- 4 Click on [Continue].**
  - The print job list for the selected printer is displayed.
- 5 Check on the print jobs that you want to cancel printing, and click [Cancel].**



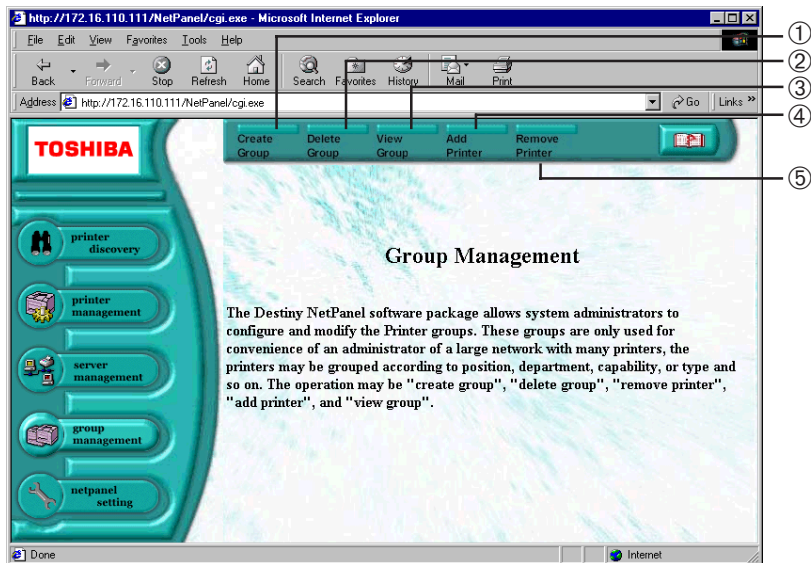
# 6 The selected print jobs are canceled.



# GROUP MANAGEMENT

This function is used to create or remove a group of printers. You can group printers according to your needs, such as the location or type of the printer (color printers or monochrome printers). You can search printers groups and quickly view the printer properties and status.

## Group Management Main Page



### ① [Create Group]

Click on this to create a new group.

### ② [Delete Group]

Click on this to delete a group.

### ③ [View Group]

Click on this to view the group list. You can select a group and view the properties for a printer belonging to that group.

### ④ [Add Printer]

Click on this to add a printer to a group.

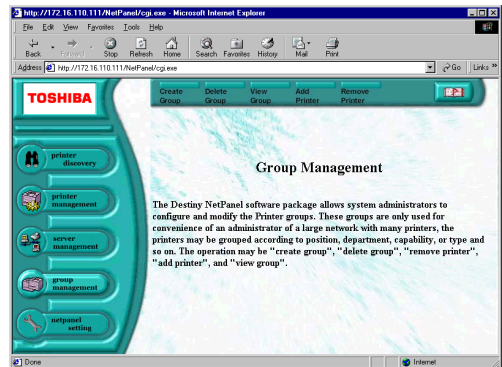
### ⑤ [Remove Printer]

Click on this to remove a printer from a group.

## Create a Group

This function allows system administrators to create groups to classify printers. Once a group is created, you can add printers to the group.

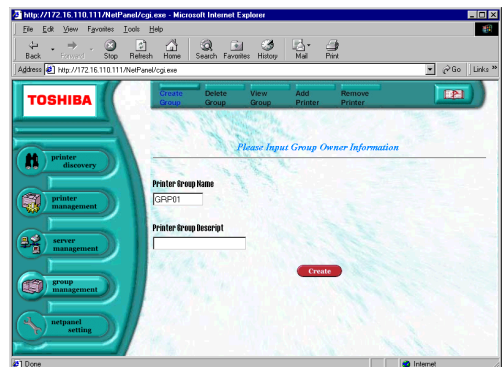
1 Click on [Create Group] on the Task bar.



2 Enter the Printer Group Name to be created.

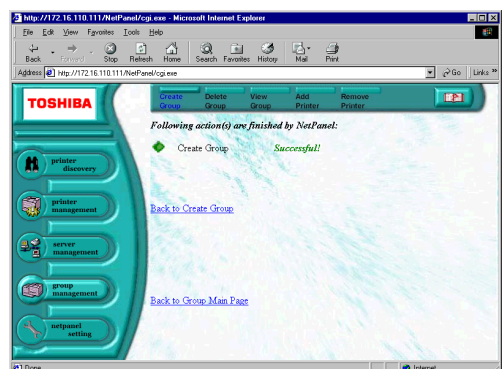
- Enter the Printer Group Descript to describe the group if required.

3 Click on [Create].



4 The operating result is displayed.

- Please make sure that the operation has been performed successfully.



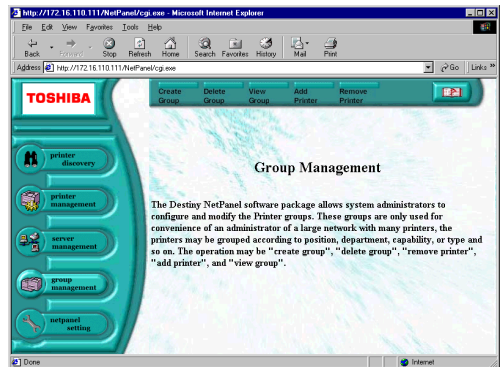
### SUPPLEMENT:

The Groups created are added to the Search Type list on the Printer Discovery Main Page and Printer Management Search Page.

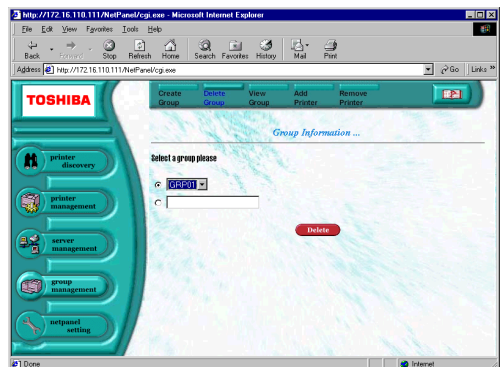
## Delete a Group

This function allows system administrators to delete a group.

1 Click on [Delete Group] on the Task bar.



2 Select the Printer Group Name or enter the Printer Group Name.



3 Click on [Delete].

4 The operating result is displayed.

- Please make sure that the operation has been performed successfully.

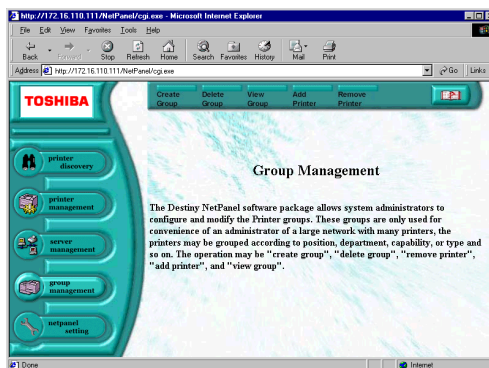


## View Group and Printer

This function allows system administrators to display the group list and view the properties for a printer belonging to a group.

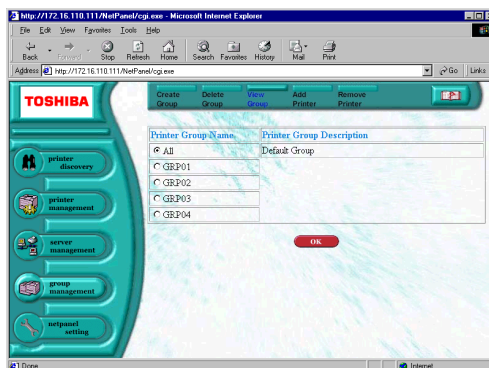
### 1 Click on [View Group] on the Task bar.

- The list of groups is displayed.



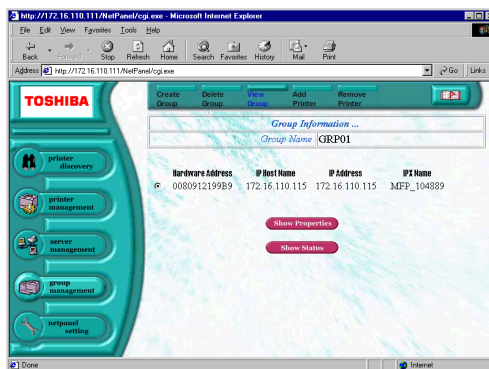
### 2 Select a group and click on [OK].

- The list of printers added to the selected group is displayed.



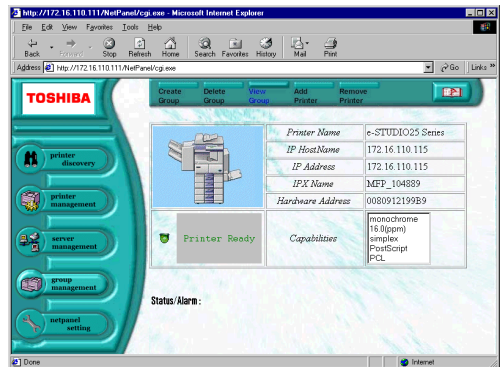
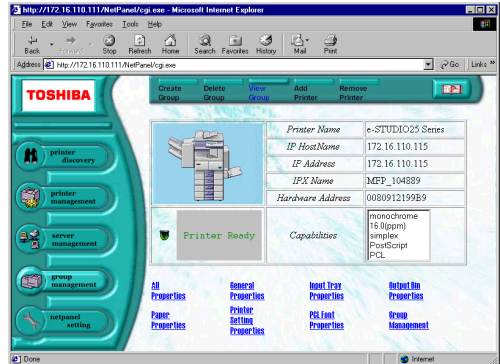
### 3 Select a printer that you want to view information about, then click on [Show Properties] or [Show Status].

- When you click [Show Properties], the properties for the selected printer is displayed.
- When you click [Show Status], the status of selected printer is displayed.



## 4 Display the printer properties page or printer status page.

- The printer properties page is the same when clicking [System Properties] on the Task bar of the Searching Result Display.
- The printer status page is the same when clicking [Status Diagnose] on the Task bar of the Searching Result Display.

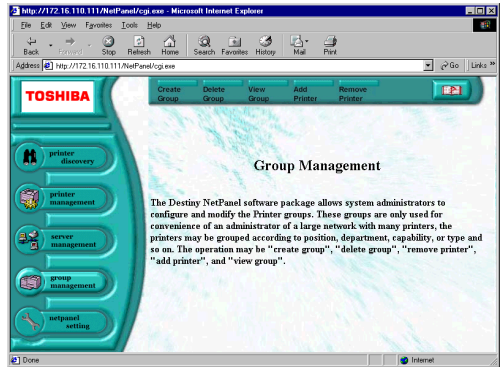




## Add a Printer to a Group

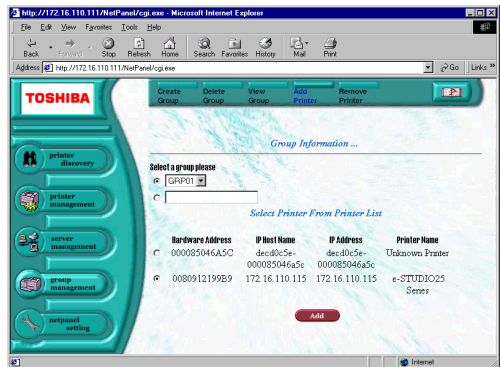
This function allows system administrators to add a printer to a group. Before you add a printer, there must be at least one group created to add a printer.

1 Click on [Add Printer] on the Task bar.



2 Select or enter a group name that you want to add a printer to.

3 Select the printer that you want to add to the group.



4 Click on [Add].

5 The operating result is displayed.

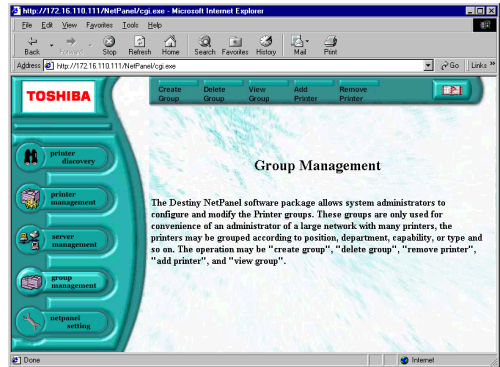
- Please make sure that the operation has been performed successfully.



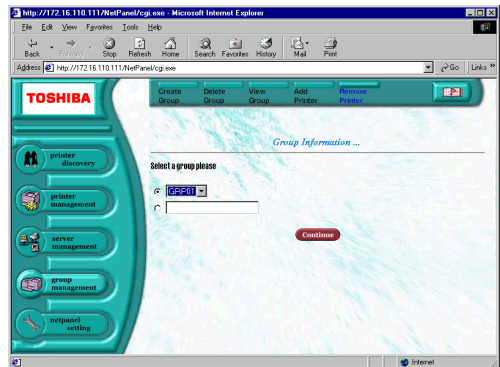
## Remove a Printer from a Group

This function allows system administrators to remove a printer from a group.

1 Click on [Remove Printer] on the Task bar.

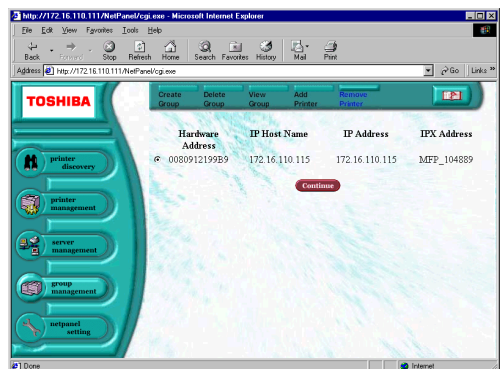


2 Select or enter a group name that you want to remove a printer from.



3 Click on [Continue].  
● The list of printers that are included in the group is displayed.

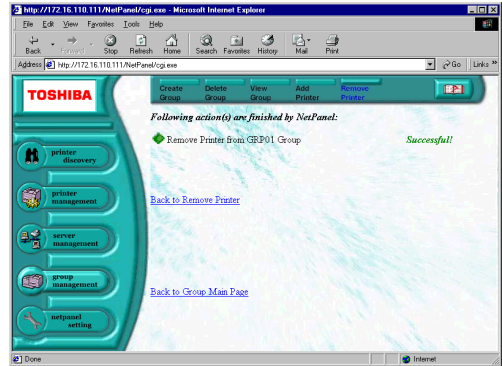
4 Select the printer that you want to remove from the list.



5 Click on [Continue].

## 6 The operating result is displayed.

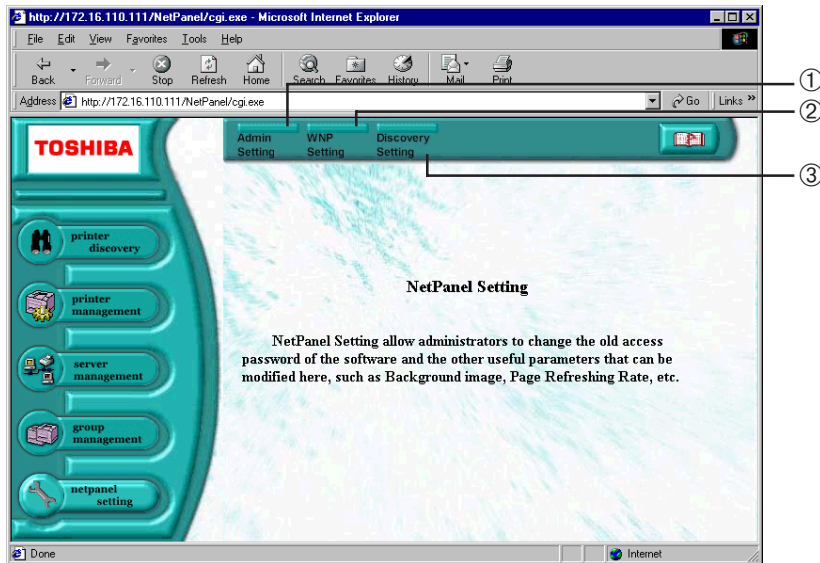
- Please make sure that the operation has been performed successfully.



# NETPANEL SETTING

This function is used to set the administrator's password, and displays how the NetPanel performs the functions.

## NetPanel Setting Main Page



### ① [Admin Setting]

Click on this to set the administrator's password.

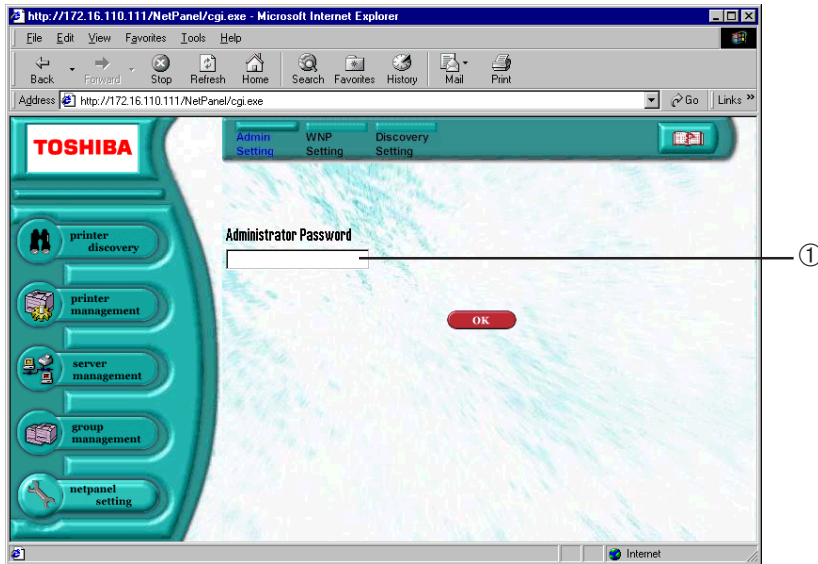
### ② [WNP Setting]

Click on this to set the appearance and action of NetPanel, such as the background image, refresh rate, how many printers and groups are listed per page, and whether the help contents are displayed in a new window or within the same frame.

### ③ [Discovery Setting]

Click on this to set the options for Printer Discovery such as the protocols used for searching for printers on the network, auto-search function, clearing the database, updating the database, and specifying the IP address to be searched.

# Administrator Setting



## ① Administrator Password

Enter the administrator password to be assigned. The administrator password is not assigned when shipped from the factory.

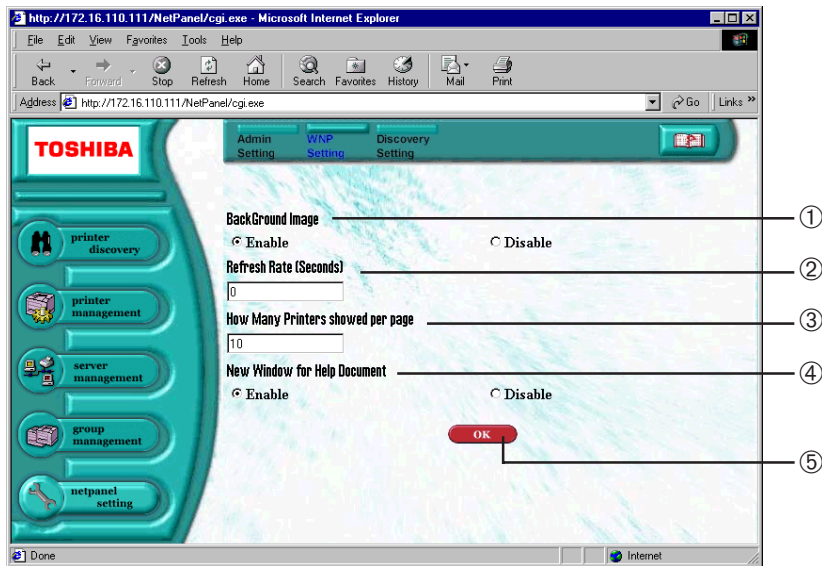
## Change the Administrator Password

- 1 Enter the password and click on [OK].
  - The password entered is indicated by asterisks ( \* ).
- 2 The Administrator Password is assigned.

### SUPPLEMENTS:

- The Administrator Password accepts upper and lower case letters.
- The length of the Administrator Password can be up to 20 alphanumeric characters.
- If the Administrator Password field is left blank and you click [OK], the Administrator Password will be set to no password.

## WNP Setting



### ① Background Image

Select whether to enable or disable the display of the background image.

NOTE: It is set to "Enable" as a factory default.

### ② Refresh Rate (Seconds)

Enter the rate (in seconds) that NetPanel should wait before it updates the page. If the page refresh rate is set to "0", then Netpanel will not automatically update the page. You can set the range from 60 to 300 seconds.

NOTE: It is set to "0" as a factory default. If this is set to a number other than 0, the [Refresh Status] button on the System Properties Page, Connection Properties Page, and Status Diagnose Page disappears.

### ③ How Many Printers showed per page

Enter the number of the printers to be displayed per page. This must be greater than "0".

NOTE: It is set to "10" as a factory default.

### ④ New Window for Help Document

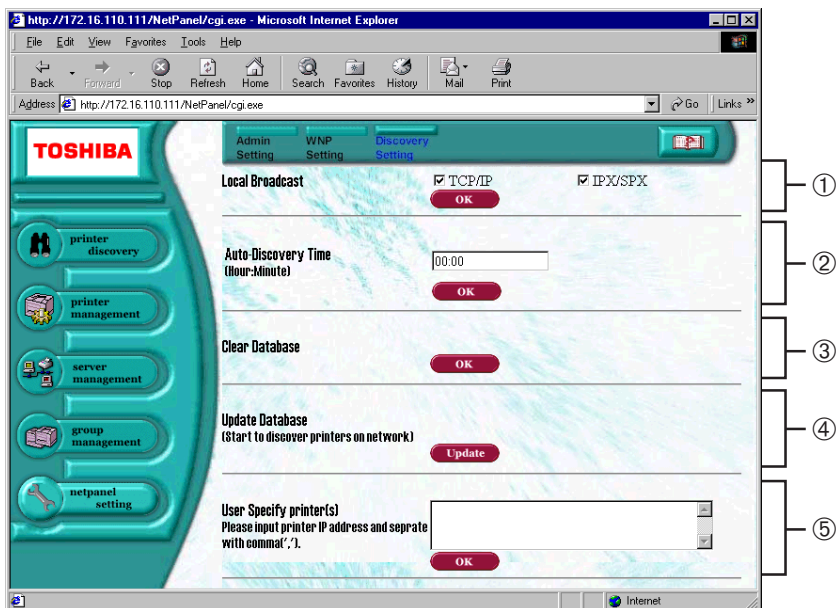
Select whether to enable or disable the display of the help contents in a new window or within the same frame.

NOTE: It is set to "Enable" as a factory default.

### ⑤ [OK]

Click this to save changes.

# Discovery Setting



## ① Local Broadcast

Check the "TCP/IP" and/or "IPX/SPX" boxes if you want NetPanel to search for printers using these protocols. Click [OK] to save the setting.

NOTE: Both "TCP/IP" and "SPX/IPX" are checked as a factory default.

### ● TCP/IP

The TCP/IP protocol is used when searching for printers.

### ● IPX/SPX

The IPX/SPX protocol is used when searching for printers.

## ② Auto-Discovery Time

Enter the time in the time format "HH:MM" to automatically search for printers. Click on [OK] to save the setting.

NOTE: It is set with "00:00" as a factory default.

## ③ Clear Database

Click on [OK] to clear the data preserved by NetPanel to quickly display the search results.

NOTE: This is not available when a printer search is in progress.

## ④ Update Database

Click on [OK] to start a printer search and save the search results.

NOTE: This is not available when a printer search is in progress.

## ⑤ User Specify Printer(s)

Enter the IP address of the printer being searched. Separate multiple IP addresses with a comma (,). Click on [OK] to save the setting.





# MAP

# MAP

MAP, Management Access Program, can link to the NIC using an exclusive alternating IPX channel even if the network is not using the TCP/IP protocol environment. To use MAP, it is necessary that a Web browser and the TCP/IP protocol are installed on your computer.

**NOTE:**

There are other items that can be setup in MAP and not in NetPanel. Please do not change any other items except the items described in this manual.

## Password for MAP

To change settings using MAP, the password must be entered to submit the change.

- Password for MAP : sysadm

**CAUTION:**

Do not forget the password. Otherwise, you will no longer be able to change settings using MAP.

# USING THE MAP in Windows

For Windows, there is a utility to automatically search the printer on a network and browse the MAP.

## Required Environments

MAP can be used in the following environment.

OS: Windows 95, Windows 98, Windows Me, Windows NT4.0, Windows 2000, Windows XP

Protocols: IPX/SPX and TCP/IP must be installed.

For Windows 95/98/Me, just install TCP/IP. It does not have to be set up.

WWW Browser: Internet Explorer 3.0 or later, Netscape Navigator 3.0 or later.

### SUPPLEMENT:

If the browser is configured to use a proxy server, either disable the browser's proxy setting or add the NIC's IP address to the browser's no proxy list.

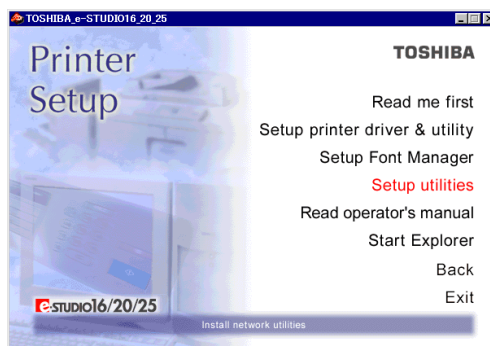
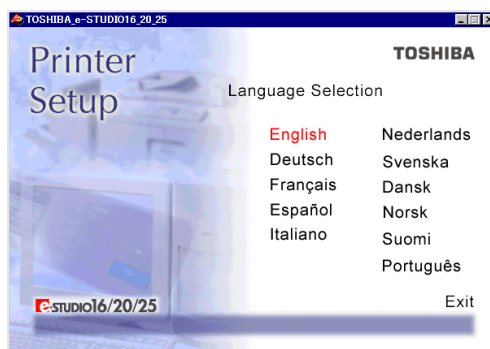
## Install MAP

### 1 Insert the CD-ROM into the CD-ROM drive.

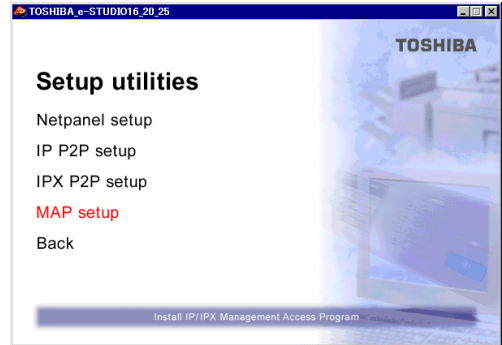
- The menu screen appears.
- If the menu screen is not automatically displayed, or when the MAP is installed via the network, double-click on "TOSHIBA\_e-STUDIO16\_20\_25.exe" in the Menu folder of the CD-ROM or network drive, which is found in Windows Explorer.

### 2 Click on a language of your Operating System.

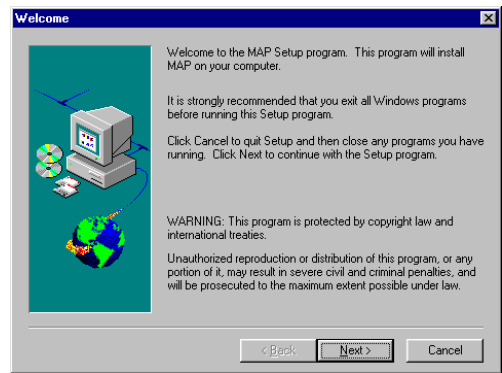
### 3 Click on [Setup utilities].



- 4** Click on [MAP setup].
- The welcome screen appears.

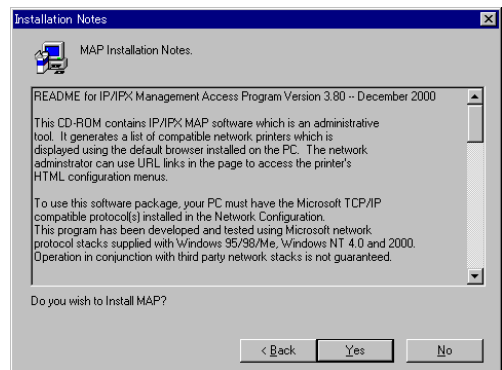


- 5** Click on [Next].

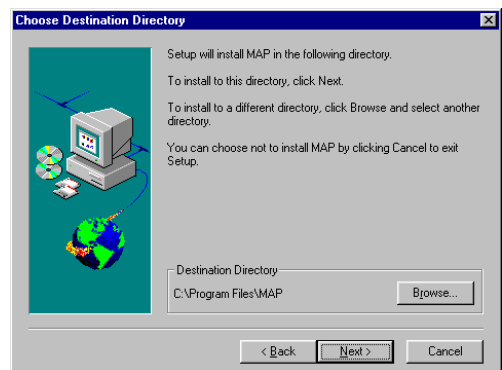


- 6** Installation Notes are displayed.

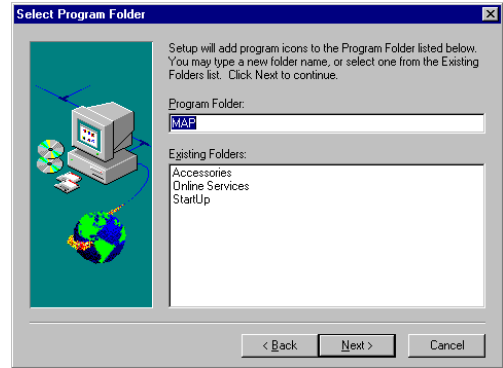
- 7** Click on [Yes].
- [Choose Destination Directory] screen appears.



- 8** If necessary, change the folder to which the files are to be installed, then click on [Next].

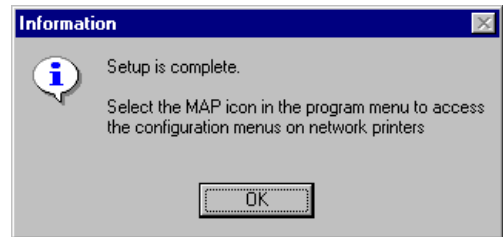


9 Click on [Next].



10 The files are installed.

11 The completion message is displayed.

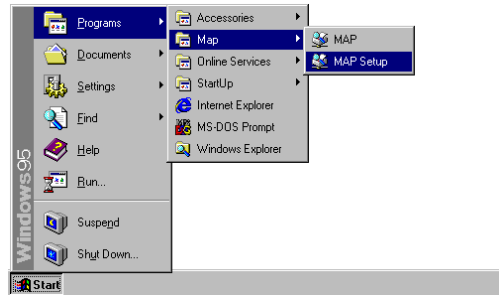


12 Click on [OK].

## Start MAP

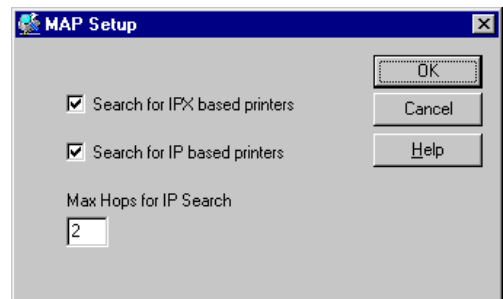
### 1 Select Programs from Start menu and click on MAP Setup in the Map folder.

- The MAP Setup screen appears.



### 2 Check on either Search for IPX based printers or Search for IP based printers, depending on your network environment.

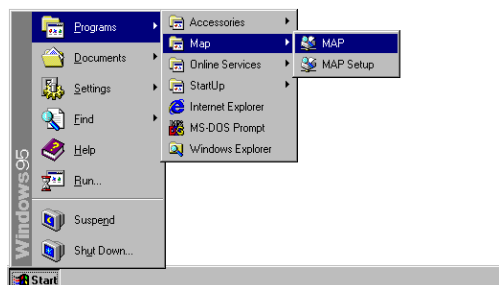
- Check "Search for IPX based printers" if your network includes NetWare servers.
- Check "Search for IP based printers" if your network includes DHCP servers.



### 3 Click [OK].

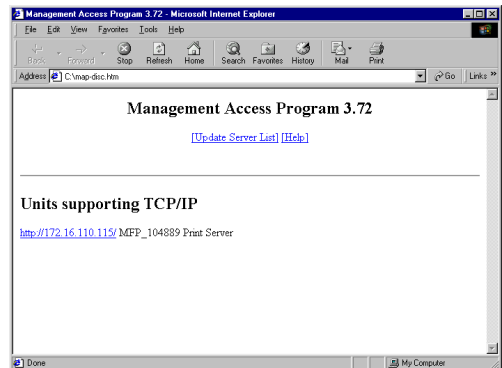
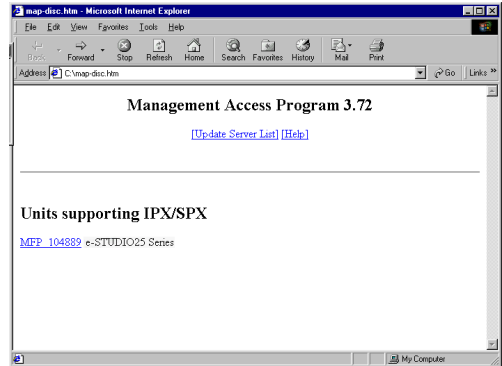
### 4 Select Programs from the Start menu and click on MAP in the Map folder.

- Start searching network printers.
- Display the search results with your default WWW browser.

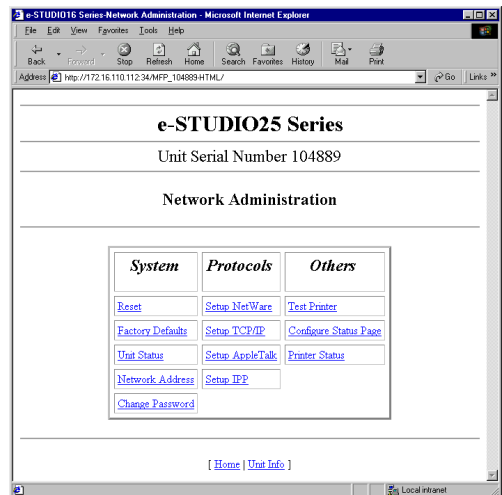


## 5 Click on your printer unit.

- When you search for printers based on the IPX/SPX protocol, the printer unit name is displayed as "MFP\_XXXXXX", where the X's correspond to the NIC serial number.
- When you search for printers based on the TCP/IP protocol, the printer's IP address is displayed.



## 6 The Network Administrator page is displayed.



# USING THE MAP in Macintosh

For Macintosh, the MAP can be used by entering the URL for MAP at the WWW Browser.

## Required Environments

Protocols	AppleTalk (Ethernet) is used to connect the machine and the IP address assigned.
WWW Browser	Internet Explorer 3.0 or later, Netscape Navigator 3.0 or later.

### SUPPLEMENT:

If the browser is configured to use a proxy server, either disable the browser's proxy setting or add the NIC's IP address to the browser's no proxy list.

## Start MAP

### NOTE:

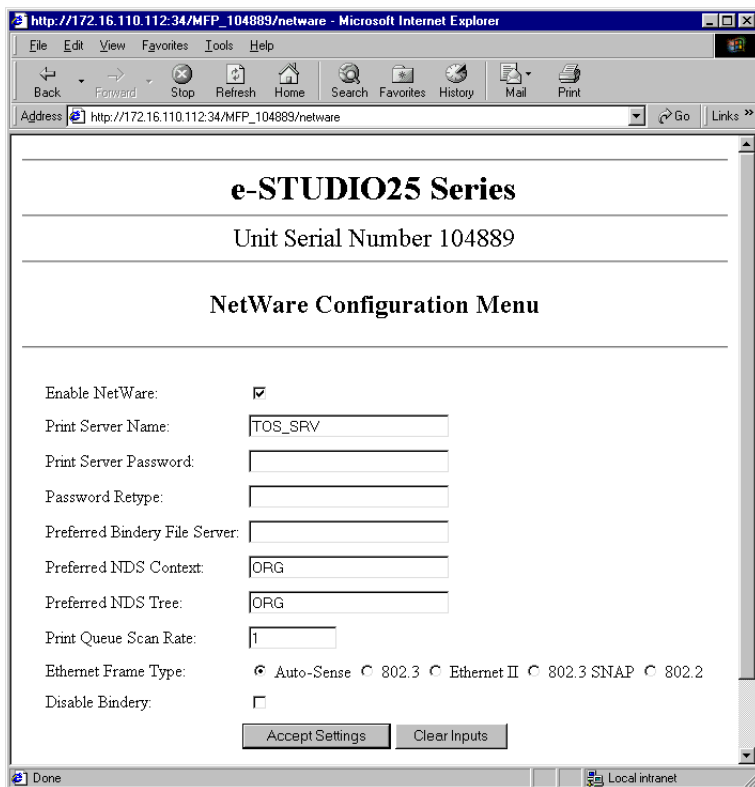
To access the MAP for the machine, the IP address must be assigned and AppleTalk enabled on the machine.

- 1 Run the WWW Browser.**
- 2 Enter “http://xxx.xxx.xxx.xxx/” at the Address bar.**
  - “xxx.xxx.xxx.xxx” is the IP address of the machine.
- 3 The Network Administrator page is displayed.**



# SETUP NetWare at MAP

Start MAP, open the NetWare setup page, and configure the settings to enable the printer to operate in the NetWare environment.



## 1 Select “Setup NetWare” from “Network Administrator” page.

- The NetWare Configuration Menu is displayed.

## 2 Enter each field that applies:

Enable NetWare	To use the printer under the operation of a NetWare server or Peer-to-Peer Utility (IPX/SPX).
Print Server Name	Enter the name of the print server to be created. It must match the setting in NetWare. “MFP_XXXXXX” is set as a default name. This is assigned as the port name when the Peer-to-Peer Utility (IPX/SPX) is used.
Print Server Password	Please do not change.
Password Retype	Please do not change.
Preferred Bindery File Server	Enter the preferred file server name. It is available only in bindery mode.
Preferred NDS Context	Enter the preferred NDS context. It is available only in NDS mode.
Preferred NDS Tree	Enter the preferred NDS tree name. It is available only in NDS mode.

Print Queue Scan Rate	Set the print queue scan time interval for the print server, using a range of 1 to 255 seconds. It is set to 1 second as the default setting.
Ethernet Frame Type	Select the preferred frame type you want to use when multiple NetWare frame types are in use. For most situations, the default setting is appropriate.
Disable Bindery	Check this only when using NetWare 4.x or 5.x in NDS mode. Uncheck this when using NetWare 3.x, 4.x or 5.x in Bindery mode.

### **3 Enter the password.**

- The password is displayed as asterisks “ \* ”.

### **4 Click on [Accept Setting].**

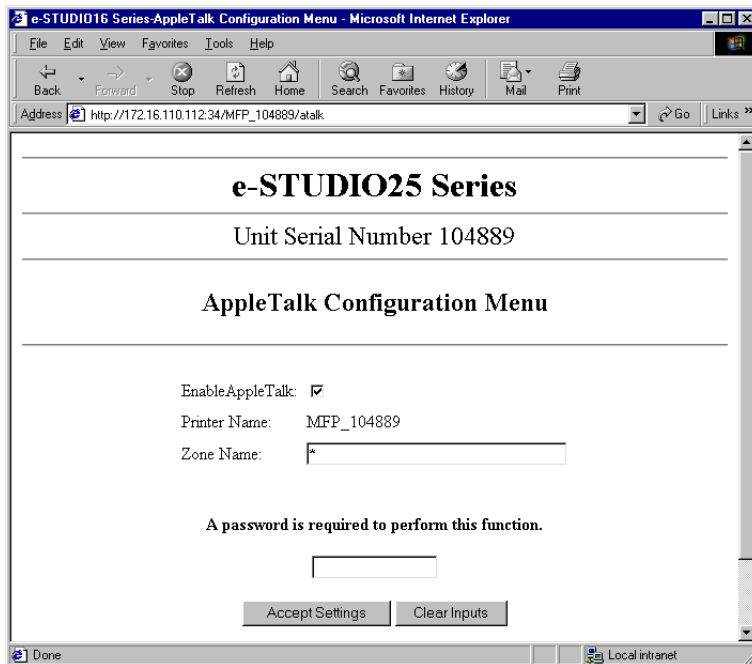
- Click on [Clear Inputs] if you want to cancel your changes and clear the input fields.

### **5 The entered settings are applied and the message “Update Successful” is displayed.**

### **6 The Network Interface Card is automatically restarted.**

# SETUP AppleTalk at MAP

Start MAP, open the AppleTalk setup page, and configure the settings to enable the printer to operate in the AppleTalk environment.



- 1 Select “Setup AppleTalk” from “Network Administrator” page.**
  - The AppleTalk Configuration Menu is displayed.
- 2 Enter each field that applies:**

Enable AppleTalk	Check to use the printer via AppleTalk (Ethernet).
Printer Name	Displays the printer name for AppleTalk.
Zone Name	Enter the zone name that the printer belongs to.
- 3 Enter the password.**
  - The password is “sysadm”.
- 4 Click on [Accept Setting].**
  - Click on [Clear Inputs] if you want to cancel your changes and clear the input fields.
- 5 The entered settings are applied and the message “Update Successful” is displayed.**
- 6 The Network Interface Card is automatically restarted.**

# RESTORE FACTORY DEFAULTS

You can restore the factory default settings on the NIC by using MAP.

1

## Click on Factory Defaults

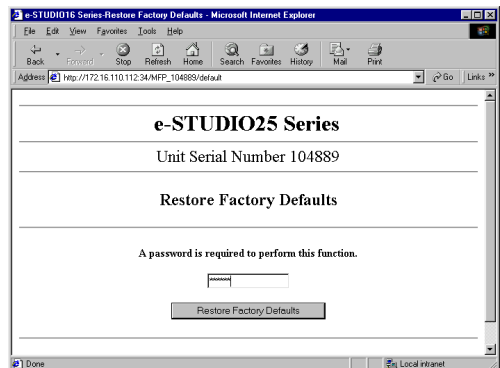
- The Restore Factory Default page appears.



2

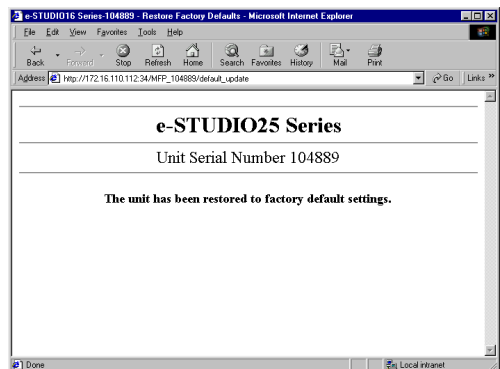
## Enter the password and click on [Restore Factory Defaults].

- The password is "sysadm".



3

## The factory defaults are restored.



4

## Restart the printer.

# TROUBLESHOOTING

# NETPANEL ERROR

## NetPanel won't appear.

Check Item	Action
Is the wrong URL entered?	Enter the correct URL (IP address of the HTTP server computer). Ask the administrator about the IP address of the computer.
Is an IP address assigned to this machine?	Assign an IP address to the printer.
Is TCP/IP installed in the computer?	TCP/IP is required when using NetPanel. Install TCP/IP on the computer.
Did you work on NetPanel immediately after resetting the printer?	Communication between the computer and the printer unit is not available when the printer is restarting. Please wait for the printer to restart and connect to the network.

## Error messages

Please read the instructions in the chapter “NETPANEL FUNCTION”, then try the following actions with the appropriate error message.

Error Message Displayed	Action
Fatal Error on Controller Memory	Turn off the power and call for service.
Fatal Error on Controller NVRAM	Turn off the power and call for service.
Fatal Error on Memory	Turn off the power and call for service.
Fatal Error on Fan Motor	Turn off the power and call for service.
Fatal Error on Fuser	Turn off the power and call for service.
Fatal Error on Laser Scan Unit	Turn off the power and call for service.
Fatal Error on Main Motor	Turn off the power and call for service.
Fatal Error on NIC	Turn off the power and call for service.
Fatal Error on Flash ROM Checksum	Turn off the power and call for service.
Fatal Error on Engine I/F	Turn off the power and call for service.
Fatal Error on Finisher	Turn off the power and call for service.
Fatal Error on Controller Option Memory	Turn off the power and call for service.
Fatal Error	Turn off the power and call for service.
Paper Empty in SFB	Load paper in SFB (Stack Feed Bypass).
Paper Empty in Cassette1	Load the paper in Cassette 1.
Paper Empty in Cassette2	Load the paper in Cassette 2.
Paper Empty in Cassette3	Load the paper in Cassette 3.
Paper Empty in Cassette4	Load the paper in Cassette 4.
Paper Empty in LCF	Load the paper in LCF.
Paper Jam in Bridge Cover	Open the Bridge Cover and clear the paper jam.
Paer Jam in Duplex Unit	Open the Duplex Unit Cover and clear the paper jam.
Paper Jam in Ejection	Clear the paper jam in the paper exit.
Paper Jam in Engine Inside	Open the Front Cover and clear the paper jam.
Paper Jam in Insertion	Clear the paper jam in the paper feeding entrance.
Process Unit Not Available	Please check process unit.
NIC Card Not Available	-
NIC Card Not Ready	-
Bridge Cover Open	Close the Bridge Cover.
Duplex Unit Cover Open	Close the Duplex Unit Cover.
Front Cover Open	Close the Front Cover.
Job Separator Cover Open	Close the Job Separator Cover.
Side Cover Open	Close the Side Cover.
Offset Cover Open	Close the Offset Cover.
Finisher Joint Open	Join Finisher to Copier.
Standard Output Tray Paper Full	Remove the paper from the Standard Output Tray.
Finisher1 Paper Full	Remove the paper from the Finisher1.
Finisher2 Paper Full	Remove the paper from the Finisher2.

Error Message Displayed	Action
Job Separator Upper Tray Paper Full	Remove the paper from the Job Separator Upper Tray.
Job Separator Lower Tray Paper Full	Remove the paper from the Job Separator Lower Tray.
Toner Empty	Please change the Toner.
Change Drum	Replace the Process Unit.
No Process Unit	Set the Process Unit.
Data Transfer Error on Network	Transfer again.
Examine Stapler	Examine Stapler.
Job too Complex	1. Print the data with lower resolution. 2. Simplify the job. 3. Add the optional memory.
Memory Overflow	1. Simplify the job. 2. Add the optional memory.
Drum Life Out	Prepare a new drum cartridge.
Toner Low	Prepare a new toner cartridge.
Illegal Paper Size	Change the Paper size.
Load [paper size] in Cassette1	Load [paper size] size paper in Cassette 1.
Load [paper size] in Cassette2	Load [paper size] size paper in Cassette 2.
Load [paper size] in Cassette3	Load [paper size] size paper in Cassette 3.
Load [paper size] in Cassette4	Load [paper size] size paper in Cassette 4.
Load [paper size] in SFB	Load [paper size] size paper in SFB.
Load [paper size] in LCF	Load [paper size] size paper in LCF.
Load [paper size]	Load [paper size] in any cassette.
Data Existing	Select the form feed on front panel or wait for a while.
Initializing	Wait for a while.
Power Saving	-
Processing	-
Warming	Wait for a while.
Canceling Job	Wait for a while.
Printer Ready	-
Printing	-
Use By Another Job	Wait for a while.
Downloading Code	Don't Power Off before complete. Please wait for a while.
Printer Power Off or Communication Error	1. Power on the printer. 2. Check if the cable is connected properly.



# WHEN PRINTING CANNOT BE PERFORMED...

When printing is not performed even after being sent from the computer, check the following:

Check Item	Action
Is the power ON?	Turn ON the power of the machine.
Is the network cable connected?	Connect the network cable correctly.
Is paper set?	Set paper in the required cassette.
Is any error message displayed?	Confirm the error message, then do the required action.

## NOTES:

\* After performing any of the actions above, do a Test Print. See "NETPANEL FUNCTION - PRINTER MANAGEMENT - Reset Printer and Test Print Page" . If the Test Printing cannot be performed, please contact the network administrator or call for service.



# SPECIFICATIONS AND OTHER INFORMATION

# SPECIFICATIONS OF THE UNITS

## Specification of the Printer Unit

Item	Specifications
Product Name	GA-1031
Print Speed	Max. 16 pages/minute (e-STUDIO16) Max. 20 pages/minute (e-STUDIO20) Max. 25 pages/minute (e-STUDIO25)
Paper Size	For North American version: A4, LETTER, LEGAL, LEDGER, COMPUTER, STATEMENT For other version: A3, A4, A5, B4, LETTER, FOLIO
Interface	Conforming to IEEE-P1284 (Standard, Nibble Mode, ECP Mode)
Memory	Standard: SDRAM 16 Megabytes
Emulation	PCL-6, PS
PCL Fonts	80 Roman Fonts
PS Fonts	80 Roman Fonts
Applicable Computers:	IBM PC/AT computer and compatible. Display Resolution: 640 x 480 dpi or more OS: Windows Microsoft Windows 95 Operating System Microsoft Windows 98 Operating System Microsoft Windows Me Operating System Microsoft Windows NT Workstation Operating System 4.0 Microsoft Windows NT ServerNetwork Operating System 4.0 Microsoft Windows 2000 Professional Operating System Microsoft Windows 2000 Server Operating System Microsoft Windows XP Home Edition Operating System Microsoft Windows XP Professional Operating System OS: Macintosh Mac OS 8.0, 8.5, 8.6, 9.0

## Specification of the Network Interface Card

Item	Specifications
Product Name	GF-1110
Data Transfer Speed	10/100 Mbps
Connector	10Base-T/100Base-TX: RJ-45 Connector x 1

# TEST PRINT SAMPLE

## Demo Page

### TOSHIBA

#### e-STUDIO25 Series

#### Demonstration Page

##### High-speed printing

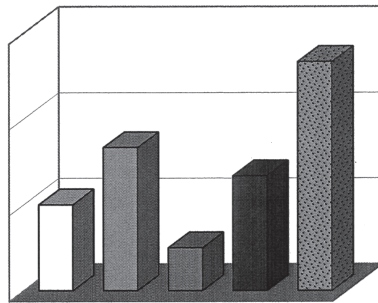
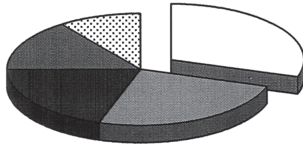
The PowerPC401 (75MHz) processor provides high-speed printing of complicated data.

##### High quality printing

Offers 600 X 600 dpi resolution to respond to the needs for high quality image printing for word processing, DTP, and CAD.

##### Various options

A wide variety of options, including the Auto Duplexing Unit, provides scalability according to users' applications.



**Outline Font**  
*Outline Font*  
**Direction**  
**Area Fill**  
**FILLMODE**

Courier PS  
 CG Times  
 Antique Olive  
 Albertus Medium  
 Garamond  
 Helvetica Bold  
 ITC Avant Garde Gothic Demi  
 New Century Schoolbook  
 ◆×■∩⊖×■∩◆  
 ☆\*‡\*●□\*◆\*■\*◎\*▼▲  
 Letter Gothic Bold  
 ITC Zapf Chancery

# Configuration Page

## TOSHIBA e-STUDIO25 Series

## Configuration Page

### Paper Setting

Paper Size	
Cassette 1	= A4
Cassette 2	= A4
Cassette 3	= Ledger
Cassette 4	= Legal
Large Capacitor Feeder	=
Stack Feed Bypass	= Other Size
Paper Source	= Automatic
Paper Destination	= Standard Output Tray
Default Paper Size	= Letter
Copies	= 1
Orientation	= Portrait
Offset Stacker	= OFF
Duplex	= OFF
Binding	= Long Edge

### Printer Setting

Page Protection	= AUTO
Line/Page	= 60
I/O Time Out	= 45 sec
Auto Continue	= 15 sec
Detect Paper Size	= OFF
Top Priority Cassette	= OFF
Resolution	= 600
Smoothing	= ON
Toner Save	= OFF
Emulation	= AUTO
Print PS Error	= OFF

### Font Setting

Font Size	= 12.00pt
Font Pitch	= 10.00cpi
Symbol Set	= PC-8
Typeface	= Courier

### Configuration

Network Card	= Installed
Total Memory	= 16 MB
Total Page Count	= 397

### Version

Controller F/W Version	= 1.04
------------------------	--------

### Network

TCP/IP	= Enable
DHCP	= Disable
IP Address	= 192.1.4.20
Subnetmask	= 255.255.0.0
Default Gateway	= 0.0.0.0
IPX/SPX	= Enable
Frame Type	= AutoSense
Apple Talk	= Enable

### Option

Cassette 2	= Installed
Cassette 3	= Installed
Cassette 4	= Installed
Large Capacitor Feeder	= Not Installed
Stack Feed Bypass	= Installed
Job Separator	= Installed
Offset Stacker	= Installed
Finisher	= Installed
Auto Duplex	= Installed

## NIC Status Page

```
-----  
Unit Serial No: 104889                               Version: 09.13 TA  
Network Address: 00:80:91:21:99:b9  
Network Topology: Ethernet                           Connector: RJ45  
Network Speed: 10 Megabits  
Novell Network Information                           enabled  
  Print Server Name: MFP_104889  
  Password Defined: No  
  Preferred Server Name not defined  
  Directory Services Context not defined  
  Frame Type: 802.2 On 802.3  
Peer-to-Peer Information                             enabled  
  Frame Type: 802.2 On 802.3  
  Network ID: 0 h  
TCP/IP Network Information                           enabled  
  Frame Type: Ethernet II                            Protocol Address: 172.16.110.115  
  Subnet Mask: 255.255.0.0                          Default Gateway: 0.0.0.0  
  DNS Address: 0.0.0.0  
  WINS Name:  
IPP Network Information                             enabled  
  Internet Printing Protocol                        http://172.16.110.115:631/Print  
AppleTalk Network Information                       enabled  
  Frame Type: 802.2 SNAP On 802.3  
  Protocol Address: Net Number 65384                Node Number 224 Socket Number 1  
  Preferred AppleTalk Zone:                          Default Zone  
-----  
Novell inactive  
Peer-to-Peer Connection Information  
  Printer Name: MFP_104889  
AppleTalk Connection Information  
  AppleTalk Printer Name: MFP_104889  
TCP/IP Connection Information  
  Port Number : 10001  
-----
```

# PCL Font List

## TOSHIBA e-STUDIO25 Series

## PCL Font List 1

### Internal Scalable and Bitmapped Fonts

Font Number	Typeface	Pitch/Point	Escape Sequence
000	Courier	Scale	<esc>{###<esc>{s0p***h0s0b4099T
001	CG Times	Scale	<esc>{###<esc>{s1p\$\$\$v0s0b4101T
002	<b>CG Times Bold</b>	Scale	<esc>{###<esc>{s1p\$\$\$v0s3b4101T
003	<i>CG Times Italic</i>	Scale	<esc>{###<esc>{s1p\$\$\$v1s0b4101T
004	<b><i>CG Times Bold Italic</i></b>	Scale	<esc>{###<esc>{s1p\$\$\$v1s3b4101T
005	CG Omega	Scale	<esc>{###<esc>{s1p\$\$\$v0s0b4113T
006	<b>CG Omega Bold</b>	Scale	<esc>{###<esc>{s1p\$\$\$v0s3b4113T
007	<i>CG Omega Italic</i>	Scale	<esc>{###<esc>{s1p\$\$\$v1s0b4113T
008	<b><i>CG Omega Bold Italic</i></b>	Scale	<esc>{###<esc>{s1p\$\$\$v1s3b4113T
009	<i>Coronet</i>	Scale	<esc>{###<esc>{s1p\$\$\$v1s0b4116T
010	<b>Clarendon Condensed</b>	Scale	<esc>{###<esc>{s1p\$\$\$v4s3b4140T
011	Univers Medium	Scale	<esc>{###<esc>{s1p\$\$\$v0s0b4148T
012	<b>Univers Bold</b>	Scale	<esc>{###<esc>{s1p\$\$\$v0s3b4148T
013	<i>Univers Medium Italic</i>	Scale	<esc>{###<esc>{s1p\$\$\$v1s0b4148T
014	<b><i>Univers Bold Italic</i></b>	Scale	<esc>{###<esc>{s1p\$\$\$v1s3b4148T
015	Univers Medium Condensed	Scale	<esc>{###<esc>{s1p\$\$\$v4s0b4148T
016	<b>Univers Bold Condensed</b>	Scale	<esc>{###<esc>{s1p\$\$\$v4s3b4148T
017	<i>Univers Medium Condensed Italic</i>	Scale	<esc>{###<esc>{s1p\$\$\$v5s0b4148T
018	<b><i>Univers Bold Condensed Italic</i></b>	Scale	<esc>{###<esc>{s1p\$\$\$v5s3b4148T
019	Antique Olive	Scale	<esc>{###<esc>{s1p\$\$\$v0s0b4168T
020	<b>Antique Olive Bold</b>	Scale	<esc>{###<esc>{s1p\$\$\$v0s3b4168T
021	<i>Antique Olive Italic</i>	Scale	<esc>{###<esc>{s1p\$\$\$v1s0b4168T
022	Garamond Antiqua	Scale	<esc>{###<esc>{s1p\$\$\$v0s0b4197T
023	<b>Garamond Halbfett</b>	Scale	<esc>{###<esc>{s1p\$\$\$v0s3b4197T
024	<i>Garamond Kursiv</i>	Scale	<esc>{###<esc>{s1p\$\$\$v1s0b4197T
025	<b><i>Garamond Kursiv Halbfett</i></b>	Scale	<esc>{###<esc>{s1p\$\$\$v1s3b4197T
026	<i>Marigold</i>	Scale	<esc>{###<esc>{s1p\$\$\$v0s0b4297T
027	Albertus Medium	Scale	<esc>{###<esc>{s1p\$\$\$v0s1b4362T
028	<b>Albertus Extra Bold</b>	Scale	<esc>{###<esc>{s1p\$\$\$v0s4b4362T
029	Arial	Scale	<esc>{###<esc>{s1p\$\$\$v0s0b16602T
030	<b>Arial Bold</b>	Scale	<esc>{###<esc>{s1p\$\$\$v0s3b16602T
031	<i>Arial Italic</i>	Scale	<esc>{###<esc>{s1p\$\$\$v1s0b16602T
032	<b><i>Arial Bold Italic</i></b>	Scale	<esc>{###<esc>{s1p\$\$\$v1s3b16602T
033	Times New	Scale	<esc>{###<esc>{s1p\$\$\$v0s0b16901T
034	<b>Times New Bold</b>	Scale	<esc>{###<esc>{s1p\$\$\$v0s3b16901T

### Symbol set, \*\*\* Pitch : .10 - 576, \$\$\$ Point Size : .25 - 999.75



# TOSHIBA

## e-STUDIO25 Series

## PCL Font List 2

### Internal Scalable and Bitmapped Fonts

Font Number	Typeface	Pitch/Point	Escape Sequence
035	<i>Times New Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b16901T
036	<b><i>Times New Bold Italic</i></b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b16901T
037	Helvetica	Scale	<esc>###<esc>(s1p\$\$\$v0s0b24580T
038	<b>Helvetica Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b24580T
039	<i>Helvetica Oblique</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b24580T
040	<b><i>Helvetica Bold Oblique</i></b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b24580T
041	Helvetica Narrow	Scale	<esc>###<esc>(s1p\$\$\$v4s0b24580T
042	<b>Helvetica Narrow Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v4s3b24580T
043	<i>Helvetica Narrow Oblique</i>	Scale	<esc>###<esc>(s1p\$\$\$v5s0b24580T
044	<b><i>Helvetica Narrow Bold Oblique</i></b>	Scale	<esc>###<esc>(s1p\$\$\$v5s3b24580T
045	Palatino Roman	Scale	<esc>###<esc>(s1p\$\$\$v0s0b24591T
046	<b>Palatino Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b24591T
047	<i>Palatino Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b24591T
048	<b><i>Palatino Bold Italic</i></b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b24591T
049	ITC Avant Garde Gothic Book	Scale	<esc>###<esc>(s1p\$\$\$v0s0b24607T
050	<b>ITC Avant Garde Gothic Demi</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s2b24607T
051	<i>ITC Avant Garde Gothic Book Oblique</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b24607T
052	<b><i>ITC Avant Garde Gothic Demi Oblique</i></b>	Scale	<esc>###<esc>(s1p\$\$\$v1s2b24607T
053	ITC Bookman Light	Scale	<esc>###<esc>(s1p\$\$\$v0s-3b24623T
054	<b>ITC Bookman Demi</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s2b24623T
055	<i>ITC Bookman Light Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s-3b24623T
056	<b><i>ITC Bookman Demi Italic</i></b>	Scale	<esc>###<esc>(s1p\$\$\$v1s2b24623T
057	New Century Schoolbook Roman	Scale	<esc>###<esc>(s1p\$\$\$v0s0b24703T
058	<b>New Century Schoolbook Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b24703T
059	<i>New Century Schoolbook Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b24703T
060	<b><i>New Century Schoolbook Bold Italic</i></b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b24703T
061	Times Roman	Scale	<esc>###<esc>(s1p\$\$\$v0s0b25093T
062	<b>Times Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b25093T
063	<i>Times Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b25093T
064	<b><i>Times Bold Italic</i></b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b25093T
065	<i>ITC Zapf Chancery Medium Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b45099T
066	ITC Zapf Dingbats ☆*+ ✻☉☋ ☼*☼☉▼▲	Scale	<esc>(14L<esc>(s1p\$\$\$v4s0b45101T
067	Symbol Σψμβολ	Scale	<esc>(19M<esc>(s1p\$\$\$v0s0b16686T
068	Symbol ΠΣψμβολΠΣ	Scale	<esc>(19M<esc>(s1p\$\$\$v0s0b45358T
069	Wingdings †}{■◻◌⊖⊗⊛⊜	Scale	<esc>(579L<esc>(s1p\$\$\$v0s0b31402T

### Symbol set, \*\*\* Pitch : .10 - 576, \$\$\$ Point Size : .25 - 999.75

# TOSHIBA

## e-STUDIO25 Series

## PCL Font List 3

### Internal Scalable and Bitmapped Fonts

Font Number	Typeface	Pitch/Point	Escape Sequence
070	<b>Courier Bold</b>	Scale	<esc>{###<esc>(s0p***h0s3b4099T
071	<i>Courier Italic</i>	Scale	<esc>{###<esc>(s0p***h1s0b4099T
072	<b>Courier Bold Italic</b>	Scale	<esc>{###<esc>(s0p***h1s3b4099T
073	Letter Gothic	Scale	<esc>{###<esc>(s0p***h0s0b4102T
074	<b>Letter Gothic Bold</b>	Scale	<esc>{###<esc>(s0p***h0s3b4102T
075	<i>Letter Gothic Italic</i>	Scale	<esc>{###<esc>(s0p***h1s0b4102T
076	CourierPS	Scale	<esc>{###<esc>(s0p***h0s0b24579T
077	<b>CourierPS Bold</b>	Scale	<esc>{###<esc>(s0p***h0s3b24579T
078	<i>CourierPS Oblique</i>	Scale	<esc>{###<esc>(s0p***h1s0b24579T
079	<b>CourierPS Bold Oblique</b>	Scale	<esc>{###<esc>(s0p***h1s3b24579T
080	Line Printer	16.67/8.5	<esc>(0N<esc>(s0p16.67h8.5v0s0b0T
081	Line Printer	16.67/8.5	<esc>(1U<esc>(s0p16.67h8.5v0s0b0T
082	Line Printer	16.67/8.5	<esc>(2N<esc>(s0p16.67h8.5v0s0b0T
083	Line Printer	16.67/8.5	<esc>(3R<esc>(s0p16.67h8.5v0s0b0T
084	Line Printer	16.67/8.5	<esc>(5N<esc>(s0p16.67h8.5v0s0b0T
085	Line Printer	16.67/8.5	<esc>(6N<esc>(s0p16.67h8.5v0s0b0T
086	Line Printer	16.67/8.5	<esc>(8U<esc>(s0p16.67h8.5v0s0b0T
087	Line Printer	16.67/8.5	<esc>(10U<esc>(s0p16.67h8.5v0s0b0T
088	Line Printer	16.67/8.5	<esc>(11U<esc>(s0p16.67h8.5v0s0b0T
089	Line Printer	16.67/8.5	<esc>(12U<esc>(s0p16.67h8.5v0s0b0T

### Symbol set, \*\*\* Pitch : .10 - 576, \$\$\$ Point Size : .25 - 999.75

# PS Font List

## TOSHIBA e-STUDIO25 Series

## PS Font List 1

### PS Internal Fonts

00	<i>Univers-MediumItalic</i>	Univers-MediumItalic
01	Arial	Arial
02	<b>Times-Bold</b>	Times-Bold
03	Courier	Courier
04	<b>Courier-BoldOblique</b>	Courier-BoldOblique
05	Univers-Condensed-Medium	Univers-Condensed-Medium
06	†)(■)ⓂⓃ)(■)ⓂⓃ◆●ⓂⓃ□	Wingdings-Regular
07	<b>Bookman-DemiItalic</b>	Bookman-DemiItalic
08	<b>Arial-BoldItalic</b>	Arial-BoldItalic
09	Univers-Medium	Univers-Medium
010	<i>Coronet</i>	Coronet
011	CourierHP	CourierHP
012	<i>Bookman-LightItalic</i>	Bookman-LightItalic
013	<i>Garamond-KursivHalbfett</i>	Garamond-KursivHalbfett
014	<b>CGTimes-Bold</b>	CGTimes-Bold
015	<b>Helvetica-Narrow-Bold</b>	Helvetica-Narrow-Bold
016	Σμβολ	Symbol
017	<i>AntiqueOlive-Italic</i>	AntiqueOlive-Italic
018	<b>AntiqueOlive-Bold</b>	AntiqueOlive-Bold
019	<i>Helvetica-Narrow-BoldOblique</i>	Helvetica-Narrow-BoldOblique
020	Albertus-Medium	Albertus-Medium
021	<b>Arial-Bold</b>	Arial-Bold
022	<b>Helvetica-Bold</b>	Helvetica-Bold
023	<i>Times-Italic</i>	Times-Italic
024	<b>TimesNewRoman-Bold</b>	TimesNewRoman-Bold
025	<i>CGTimes-Italic</i>	CGTimes-Italic
026	<i>Times-BoldItalic</i>	Times-BoldItalic
027	<i>CGTimes-BoldItalic</i>	CGTimes-BoldItalic
028	Palatino-Roman	Palatino-Roman
029	<b>Albertus-ExtraBold</b>	Albertus-ExtraBold
030	Bookman-Light	Bookman-Light
031	CGTimes	CGTimes
032	AvantGarde-Book	AvantGarde-Book
033	<b>CGOmega-BoldItalic</b>	CGOmega-BoldItalic
034	Times-Roman	Times-Roman
035	TimesNewRoman	TimesNewRoman
036	<i>CGOmega-Italic</i>	CGOmega-Italic
037	<b>Univers-Bold</b>	Univers-Bold
038	LetterGothic	LetterGothic
039	NewCenturySchlbk-Roman	NewCenturySchlbk-Roman

# TOSHIBA

## e-STUDIO25 Series

## PS Font List 2

### PS Internal Fonts

040	<b>Helvetica-BoldOblique</b>	Helvetica-BoldOblique
041	<i>Helvetica-Oblique</i>	Helvetica-Oblique
042	<i>AvantGarde-BookOblique</i>	AvantGarde-BookOblique
043	<b>NewCenturySchlbk-BoldItalic</b>	NewCenturySchlbk-BoldItalic
044	<i>TimesNewRoman-Italic</i>	TimesNewRoman-Italic
045	<b>AvantGarde-Demi</b>	AvantGarde-Demi
046	<b>NewCenturySchlbk-Bold</b>	NewCenturySchlbk-Bold
047	<b>CGOmega-Bold</b>	CGOmega-Bold
048	<b>Clarendon-Condensed-Bold</b>	Clarendon-Condensed-Bold
049	<b>Courier-Bold</b>	Courier-Bold
050	<i>TimesNewRoman-BoldItalic</i>	TimesNewRoman-BoldItalic
051	<b>LetterGothic-Bold</b>	LetterGothic-Bold
052	<i>NewCenturySchlbk-Italic</i>	NewCenturySchlbk-Italic
053	<i>Palatino-Italic</i>	Palatino-Italic
054	<b>Univers-Condensed-BoldItalic</b>	Univers-Condensed-BoldItalic
055	<i>Marigold</i>	Marigold
056	<b>AntiqueOlive</b>	AntiqueOlive
057	<i>Arial-Italic</i>	Arial-Italic
058	<i>LetterGothic-Italic</i>	LetterGothic-Italic
059	ΣυμβολMT	SymbolMT
060	<b>Palatino-Bold</b>	Palatino-Bold
061	<i>Helvetica-Narrow-Oblique</i>	Helvetica-Narrow-Oblique
062	<i>Garamond-Kursiv</i>	Garamond-Kursiv
063	●◻□*+*■*◎◐▼▲	ZapfDingbats
064	Helvetica	Helvetica
065	<i>Univers-Condensed-MediumItalic</i>	Univers-Condensed-MediumItalic
066	Garamond-Antiqua	Garamond-Antiqua
067	<i>ZapfChancery-MediumItalic</i>	ZapfChancery-MediumItalic
068	CGOmega	CGOmega
069	<b>AvantGarde-DemiOblique</b>	AvantGarde-DemiOblique
070	<i>CourierHP-Italic</i>	CourierHP-Italic
071	<b>CourierHP-Bold</b>	CourierHP-Bold
072	Garamond-Halbfett	Garamond-Halbfett
073	<i>Palatino-BoldItalic</i>	Palatino-BoldItalic
074	<i>Courier-Oblique</i>	Courier-Oblique
075	<b>Univers-BoldItalic</b>	Univers-BoldItalic
076	<b>Univers-Condensed-Bold</b>	Univers-Condensed-Bold
077	<i>CourierHP-BoldItalic</i>	CourierHP-BoldItalic
078	Helvetica-Narrow	Helvetica-Narrow
079	<b>Bookman-Demi</b>	Bookman-Demi



## Group Management List Page

### **TOSHIBA** **e-STUDIO25 Series**

### **Group Management List**

Group Number	Print Number
1	32
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	5632
Other	25
<b>Total Page Count</b>	<b>5689</b>

# LIST OF INTERNAL PCL FONTS

The following table shows the internal PCL fonts of this printer:

Font Number	Typeface	Pitch/Point	Escape Sequence
000	Courier	Scale	<esc>###<esc>(s0p***h0s0b4099T
001	CG Times	Scale	<esc>###<esc>(s1p\$\$\$v0s0b4101T
002	<b>CG Times Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b4101T
003	<i>CG Times Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b4101T
004	<b>CG Times Bold Italic</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b4101T
005	CG Omega	Scale	<esc>###<esc>(s1p\$\$\$v0s0b4113T
006	<b>CG Omega Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b4113T
007	<i>CG Omega Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b4113T
008	<b>CG Omega Bold Italic</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b4113T
009	<i>Coronet</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b4116T
010	<b>Clarendon Condensed</b>	Scale	<esc>###<esc>(s1p\$\$\$v4s3b4140T
011	Univers Medium	Scale	<esc>###<esc>(s1p\$\$\$v0s0b4148T
012	<b>Univers Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b4148T
013	<i>Univers Medium Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b4148T
014	<b>Univers Bold Italic</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b4148T
015	Univers Medium Condensed	Scale	<esc>###<esc>(s1p\$\$\$v4s0b4148T
016	<b>Univers Bold Condensed</b>	Scale	<esc>###<esc>(s1p\$\$\$v4s3b4148T
017	<i>Univers Medium Condensed Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v5s0b4148T
018	<b>Univers Bold Condensed Italic</b>	Scale	<esc>###<esc>(s1p\$\$\$v5s3b4148T
019	Antique Olive	Scale	<esc>###<esc>(s1p\$\$\$v0s0b4168T
020	<b>Antique Olive Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b4168T
021	<i>Antique Olive Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b4168T
022	Garamond Antiqua	Scale	<esc>###<esc>(s1p\$\$\$v0s0b4197T
023	<b>Garamond Halbfett</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b4197T
024	<i>Garamond Kursiv</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b4197T
025	<b>Garamond Kursiv Halbfett</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b4197T
026	<i>Marigold</i>	Scale	<esc>###<esc>(s1p\$\$\$v0s0b4297T
027	Albertus Medium	Scale	<esc>###<esc>(s1p\$\$\$v0s1b4362T
028	<b>Albertus Extra Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s4b4362T
029	Arial	Scale	<esc>###<esc>(s1p\$\$\$v0s0b16602T
030	<b>Arial Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b16602T
031	<i>Arial Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b16602T
032	<b>Arial Bold Italic</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b16602T
033	Times New	Scale	<esc>###<esc>(s1p\$\$\$v0s0b16901T
034	<b>Times New Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b16901T
035	<i>Times New Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b16901T
036	<b>Times New Bold Italic</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b16901T
037	Helvetica	Scale	<esc>###<esc>(s1p\$\$\$v0s0b24580T
038	<b>Helvetica Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b24580T
039	<i>Helvetica Oblique</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b24580T
040	<b>Helvetica Bold Oblique</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b24580T
041	Helvetica Narrow	Scale	<esc>###<esc>(s1p\$\$\$v4s0b24580T
042	<b>Helvetica Narrow Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v4s3b24580T
043	<i>Helvetica Narrow Oblique</i>	Scale	<esc>###<esc>(s1p\$\$\$v5s0b24580T

### Symbol set, \*\*\* Pitch : .10 - 576, \$\$\$ Point Size : .25 - 999.75

Font Number	Typeface	Pitch/Point	Escape Sequence
044	<b>Helvetica Narrow Bold Oblique</b>	Scale	<esc>###<esc>(s1p\$\$\$v5s3b24580T
045	Palatino Roman	Scale	<esc>###<esc>(s1p\$\$\$v0s0b24591T
046	<b>Palatino Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b24591T
047	<i>Palatino Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b24591T
048	<b>Palatino Bold Italic</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b24591T
049	ITC Avant Garde Gothic Book	Scale	<esc>###<esc>(s1p\$\$\$v0s0b24607T
050	<b>ITC Avant Garde Gothic Demi</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s2b24607T
051	<i>ITC Avant Garde Gothic Book Oblique</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b24607T
052	<b>ITC Avant Garde Gothic Demi Oblique</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s2b24607T
053	ITC Bookman Light	Scale	<esc>###<esc>(s1p\$\$\$v0s-3b24623T
054	<b>ITC Bookman Demi</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s2b24623T
055	<i>ITC Bookman Light Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s-3b24623T
056	<b>ITC Bookman Demi Italic</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s2b24623T
057	New Century Schoolbook Roman	Scale	<esc>###<esc>(s1p\$\$\$v0s0b24703T
058	<b>New Century Schoolbook Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b24703T
059	<i>New Century Schoolbook Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b24703T
060	<b>New Century Schoolbook Bold Italic</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b24703T
061	Times Roman	Scale	<esc>###<esc>(s1p\$\$\$v0s0b25093T
062	<b>Times Bold</b>	Scale	<esc>###<esc>(s1p\$\$\$v0s3b25093T
063	<i>Times Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b25093T
064	<b>Times Bold Italic</b>	Scale	<esc>###<esc>(s1p\$\$\$v1s3b25093T
065	<i>ITC Zapf Chancery Medium Italic</i>	Scale	<esc>###<esc>(s1p\$\$\$v1s0b45099T
066	ITC Zapf Dingbats ☆ * ❖ ❁ ☐ ❁ ❖ ❁ ❁ ❁ ❁ ❁ ❁ ❁	Scale	<esc>(14L<esc>(s1p\$\$\$v4s0b45101T
067	Symbol Σ ψ μ β ο λ	Scale	<esc>(19M<esc>(s1p\$\$\$v0s0b16686T
068	Symbol PS Σ ψ μ β ο λ Π Σ	Scale	<esc>(19M<esc>(s1p\$\$\$v0s0b45358T
069	Wingdings ♠ )( ■ γ ο Ω )( ■ γ ο ♦	Scale	<esc>(579L<esc>(s1p\$\$\$v0s0b31402T
070	<b>Courier Bold</b>	Scale	<esc>###<esc>(s0p***h0s3b4099T
071	<i>Courier Italic</i>	Scale	<esc>###<esc>(s0p***h1s0b4099T
072	<b>Courier Bold Italic</b>	Scale	<esc>###<esc>(s0p***h1s3b4099T
073	Letter Gothic	Scale	<esc>###<esc>(s0p***h0s0b4102T
074	<b>Letter Gothic Bold</b>	Scale	<esc>###<esc>(s0p***h0s3b4102T
075	<i>Letter Gothic Italic</i>	Scale	<esc>###<esc>(s0p***h1s0b4102T
076	CourierPS	Scale	<esc>###<esc>(s0p***h0s0b24579T
077	<b>CourierPS Bold</b>	Scale	<esc>###<esc>(s0p***h0s3b24579T
078	<i>CourierPS Oblique</i>	Scale	<esc>###<esc>(s0p***h1s0b24579T
079	<b>CourierPS Bold Oblique</b>	Scale	<esc>###<esc>(s0p***h1s3b24579T
080	Line Printer	16.67/8.5	<esc>(0N<esc>(s0p16.67h8.5v0s0b0T
081	Line Printer	16.67/8.5	<esc>(1U<esc>(s0p16.67h8.5v0s0b0T
082	Line Printer	16.67/8.5	<esc>(2N<esc>(s0p16.67h8.5v0s0b0T
083	Line Printer	16.67/8.5	<esc>(3R<esc>(s0p16.67h8.5v0s0b0T
084	Line Printer	16.67/8.5	<esc>(5N<esc>(s0p16.67h8.5v0s0b0T
085	Line Printer	16.67/8.5	<esc>(6N<esc>(s0p16.67h8.5v0s0b0T
086	Line Printer	16.67/8.5	<esc>(8U<esc>(s0p16.67h8.5v0s0b0T
087	Line Printer	16.67/8.5	<esc>(10U<esc>(s0p16.67h8.5v0s0b0T
088	Line Printer	16.67/8.5	<esc>(11U<esc>(s0p16.67h8.5v0s0b0T
089	Line Printer	16.67/8.5	<esc>(12U<esc>(s0p16.67h8.5v0s0b0T

### Symbol set, \*\*\* Pitch : .10 - 576, \$\$\$ Point Size : .25 - 999.75



# LIST OF INTERNAL PS FONTS

040	<b>Helvetica-BoldOblique</b>	Helvetica-BoldOblique
041	<b>Helvetica-Oblique</b>	Helvetica-Oblique
042	<b>AvantGarde-BookOblique</b>	AvantGarde-BookOblique
043	<b>NewCenturySchlbk-BoldItalic</b>	NewCenturySchlbk-BoldItalic
044	<b>TimesNewRoman-Italic</b>	TimesNewRoman-Italic
045	<b>AvantGarde-Demi</b>	AvantGarde-Demi
046	<b>NewCenturySchlbk-Bold</b>	NewCenturySchlbk-Bold
047	<b>CGOmega-Bold</b>	CGOmega-Bold
048	<b>Clarendon-Condensed-Bold</b>	Clarendon-Condensed-Bold
049	<b>Courier-Bold</b>	Courier-Bold
050	<b>TimesNewRoman-BoldItalic</b>	TimesNewRoman-BoldItalic
051	<b>LetterGothic-Bold</b>	LetterGothic-Bold
052	<b>NewCenturySchlbk-Italic</b>	NewCenturySchlbk-Italic
053	<b>Palatino-Italic</b>	Palatino-Italic
054	<b>Univers-Condensed-BoldItalic</b>	Univers-Condensed-BoldItalic
055	<i>Marigold</i>	Marigold
056	<b>AntiqueOlive</b>	AntiqueOlive
057	<b>Arial-Italic</b>	Arial-Italic
058	<b>LetterGothic-Italic</b>	LetterGothic-Italic
059	<b>ΣμβολMT</b>	SymbolMT
060	<b>Palatino-Bold</b>	Palatino-Bold
061	<b>Helvetica-Narrow-Oblique</b>	Helvetica-Narrow-Oblique
062	<b>Garamond-Kursiv</b>	Garamond-Kursiv
063	☼☉☐☎☎*☐*☉☎▼▲	ZapfDingbats
064	<b>Helvetica</b>	Helvetica
065	<b>Univers-Condensed-MediumItalic</b>	Univers-Condensed-MediumItalic
066	<b>Garamond-Antiqua</b>	Garamond-Antiqua
067	<b>ZapfChancery-MediumItalic</b>	ZapfChancery-MediumItalic
068	<b>CGOmega</b>	CGOmega
069	<b>AvantGarde-DemiOblique</b>	AvantGarde-DemiOblique
070	<b>CourierHP-Italic</b>	CourierHP-Italic
071	<b>CourierHP-Bold</b>	CourierHP-Bold
072	<b>Garamond-Halbfett</b>	Garamond-Halbfett
073	<b>Palatino-BoldItalic</b>	Palatino-BoldItalic
074	<b>Courier-Oblique</b>	Courier-Oblique
075	<b>Univers-BoldItalic</b>	Univers-BoldItalic
076	<b>Univers-Condensed-Bold</b>	Univers-Condensed-Bold
077	<b>CourierHP-BoldItalic</b>	CourierHP-BoldItalic
078	<b>Helvetica-Narrow</b>	Helvetica-Narrow
079	<b>Bookman-Demi</b>	Bookman-Demi

00	<i>Univers-MediumItalic</i>	Univers-MediumItalic
01	Arial	Arial
02	<b>Times-Bold</b>	Times-Bold
03	Courier	Courier
04	<b>Courier-BoldOblique</b>	Courier-BoldOblique
05	Univers-Condensed-Medium	Univers-Condensed-Medium
06	☩☩■γοϠ☩■γο◊☐☐☐☐☐☐☐☐☐	Wingdings-Regular
07	<b>Bookman-DemiItalic</b>	Bookman-DemiItalic
08	<b>Arial-BoldItalic</b>	Arial-BoldItalic
09	Univers-Medium	Univers-Medium
010	<i>Coronet</i>	Coronet
011	CourierHP	CourierHP
012	<i>Bookman-LightItalic</i>	Bookman-LightItalic
013	<i>Garamond-KursivHalbfett</i>	Garamond-KursivHalbfett
014	<b>CGTimes-Bold</b>	CGTimes-Bold
015	<b>Helvetica-Narrow-Bold</b>	Helvetica-Narrow-Bold
016	Σψμβολ	Symbol
017	<i>AntiqueOlive-Italic</i>	AntiqueOlive-Italic
018	<b>AntiqueOlive-Bold</b>	AntiqueOlive-Bold
019	<b>Helvetica-Narrow-BoldOblique</b>	Helvetica-Narrow-BoldObliqu
020	Albertus-Medium	Albertus-Medium
021	<b>Arial-Bold</b>	Arial-Bold
022	<b>Helvetica-Bold</b>	Helvetica-Bold
023	<i>Times-Italic</i>	Times-Italic
024	<b>TimesNewRoman-Bold</b>	TimesNewRoman-Bold
025	<i>CGTimes-Italic</i>	CGTimes-Italic
026	<b>Times-BoldItalic</b>	Times-BoldItalic
027	<b>CGTimes-BoldItalic</b>	CGTimes-BoldItalic
028	Palatino-Roman	Palatino-Roman
029	<b>Albertus-ExtraBold</b>	Albertus-ExtraBold
030	Bookman-Light	Bookman-Light
031	CGTimes	CGTimes
032	AvantGarde-Book	AvantGarde-Book
033	<b>CGOmega-BoldItalic</b>	CGOmega-BoldItalic
034	Times-Roman	Times-Roman
035	TimesNewRoman	TimesNewRoman
036	<i>CGOmega-Italic</i>	CGOmega-Italic
037	<b>Univers-Bold</b>	Univers-Bold
038	LetterGothic	LetterGothic
039	<b>NewCenturySchlbk-Roman</b>	NewCenturySchlbk-Roman



# **TOSHIBA TEC CORPORATION**

1-1, KANDA NISHIKI-CHO, CHIYODA-KU, TOKYO, 101-8442, JAPAN

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