

**MULTIFUNCTIONAL DIGITAL COLOR SYSTEMS /  
MULTIFUNCTIONAL DIGITAL SYSTEMS**

# **Software Installation Guide**

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**e-STUDIO2000AC/2500AC**

**e-STUDIO2505AC/3005AC/3505AC/4505AC/5005AC**

**e-STUDIO2008A/2508A/3008A/3508A/4508A/5008A**

**e-STUDIO5506AC/6506AC/7506AC**

**e-STUDIO5508A/6508A/7508A/8508A**



# Preface

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Thank you for purchasing TOSHIBA Multifunctional Digital Systems or Multifunctional Digital Color Systems. This manual explains the instructions for installing client software. Read this manual before using the functions.

## ■ How to read this manual

### □ Symbols in this manual

In this manual, some important items are described with the symbols shown below. Be sure to read these items before using this equipment.

 **WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death, serious injury, or serious damage, or fire in the equipment or surrounding objects.

 **CAUTION** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, partial damage to the equipment or surrounding objects, or loss of data.

 **Note** Indicates information to which you should pay attention when operating the equipment.

 **Tip** Describes handy information that is useful to know when operating the equipment.

 Pages describing items related to what you are currently doing. See these pages as required.

### □ Target audience for this manual

This is a manual that is aimed at general users and administrators.

### □ Model and series names in this manual

In this manual, each model name is replaced with the series name as shown below.

Model name	Series name in this manual
e-STUDIO2000AC/2500AC	e-STUDIO2500AC Series
e-STUDIO2505AC/3005AC/3505AC/4505AC/5005AC	e-STUDIO5005AC Series
e-STUDIO2008A/2508A/3008A/3508A/4508A/5008A	e-STUDIO5008A Series
e-STUDIO5506AC/6506AC/7506AC	e-STUDIO7506AC Series
e-STUDIO5508A/6508A/7508A/8508A	e-STUDIO8508A Series

### □ Optional equipment

For available options, refer to the **Quick Start Guide**.

### □ Screens and Operation Procedures

- In this manual, the screens and the operation procedures in Windows are described for Windows 10. Screenshots and explanations for Mac OS are based on Mac OS X 10.10.x.  
The details on the screens may differ depending on your model and how the equipment is used, such as the status of the installed options, the OS version and the applications.
- The illustration screens used in this manual are for paper in the A/B format. If you use paper in the LT format, the display or the order of buttons in the illustrations may differ from that of your equipment.

### □ Install Disc co-packed with the equipment

In this manual, the discs for installing the software are generically described in "Install Disc".

### □ Trademarks

For trademarks, refer to the **Safety Information**.

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Contractor/Manufacturer is TOSHIBA TEC Corporation, 1-11-1, Osaki, Shinagawa-ku, Tokyo, 141-8562, Japan



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# OVERVIEW

This chapter provides an overview of the software installation.

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## About the Install Disc

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### ■ For Windows

The contents of the Install Disc:

#### Client software installer

[Install Disc]:\e-STUDIO\Setup.exe

This is the setup program to install the Universal Printer 2 driver and other client software on your computer.

#### Universal Printer 2 drivers

The setup files for installing the Universal Printer 2 driver for each language version are included in the following folder:

They allow you to install the driver on Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012.

- For the Windows computer 32-bit edition  
[Install Disc]:\Client\Drivers\UNI\32bit\
  - For the Windows computer 64-bit edition  
[Install Disc]:\Client\Drivers\UNI\64bit\

#### Universal PS3 printer drivers (PostScript)

The setup files for installing the Universal PS3 printer driver for each language version are included in the following folder:

They allow you to install the driver on Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012.

- For the Windows computer 32-bit edition  
[Install Disc]:\Client\Drivers\PS\32bit\
  - For the Windows computer 64-bit edition  
[Install Disc]:\Client\Drivers\PS\64bit\

#### Universal XPS printer drivers

The setup files for installing the Universal XPS printer driver for each language version are included in the following folder:

They allow you to install the driver on Windows Vista / Windows 7 / Windows 8.1 / Windows 10.

- For the Windows computer 32-bit edition  
[Install Disc]:\Client\Drivers\XPS\32bit\
  - For the Windows computer 64-bit edition  
[Install Disc]:\Client\Drivers\XPS\64bit\

#### Windows PPD file

A printer description file for popular Windows applications is included in the following folder:

Choose the appropriate file depending on the model to be used.

- [Install Disc]:\Client\Drivers\WinPPD\2-sided\_default\
  - This PPD file enables to set 2-sided printing by default.
- [Install Disc]:\Client\Drivers\WinPPD\normal\
  - This PPD file enables to set 1-sided printing by default.

#### Tips

- When this equipment is used in Europe or North America, use the PPD file enabling 2-sided printing by default.
- Choose either "TSES6D\_1.PPD" or "TSES8O\_1.PPD" depending on the model to be used.
  - Color MFP: Use the "TSES6D\_1.PPD" file.
  - Black and White MFP: Use the "TSES8O\_1.PPD" file.

#### N/W-Fax drivers

The setup files for installing the N/W-Fax driver for each language version are included in the following folder:

They allow you to install the driver on Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012.

- For the Windows computer 32-bit edition



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## ■ For Mac OS

The contents of the Install Disc:

### Mac OS PPD files

The PPD file and plug-ins are included in the following folder, which are used for Mac OS X 10.6.8 or later:

- [Install Disc]:MacPPD/OSX10\_6-  
These plug-ins are used for Mac OS X 10.6.8 or later.
- [Install Disc]:MacPPD/OSX10\_6-/2-sided\_default  
This PPD file enables to set 2-sided printing by default.
- [Install Disc]:MacPPD/OSX10\_6-/normal  
This PPD file enables to set 1-sided printing by default.

#### Tip

When this equipment is used in Europe or North America, install the PPD file enabling 2-sided printing by default.

## ■ For UNIX/Linux

The contents of the Install Disc:

### Solaris filter

The tar file for Solaris v11.2 is included in the following folder:  
Choose the appropriate file depending on the model to be used.

- Color MFP  
[Install Disc]/Admin/Color\_Unix\_Linux/SolarisFilter/Usa/
- Black and White MFP  
[Install Disc]/Admin/BW\_Unix\_Linux/SolarisFilter/Usa/

### HP-UX filter

The tar file for HP-UX ver.11iv3 is included in the following folder:  
Choose the appropriate file depending on the model to be used.

- Color MFP  
[Install Disc]/Admin/Color\_Unix\_Linux/HP-UXFilter/Usa/
- Black and White MFP  
[Install Disc]/Admin/BW\_Unix\_Linux/HP-UXFilter/Usa/

### IBM AIX filter

The tar file for IBM AIX 7.x is included in the following folder:  
Choose the appropriate file depending on the model to be used.

- Color MFP  
[Install Disc]/Admin/Color\_Unix\_Linux/AIXFilter/Usa/
- Black and White MFP  
[Install Disc]/Admin/BW\_Unix\_Linux/AIXFilter/Usa/

### Linux filter

The tar file for Fedora 21/22, Red Hat Enterprise Linux 5.x/6.x/7.x, SuSE Linux Enterprise Server 11/12, Open SUSE 13.2/13.3, Solaris 11.2, Ubuntu 14.04LTS/15.04 and Debian 7/8 is included in the following folder:  
Choose the appropriate file depending on the model to be used.

- Color MFP  
[Install Disc]/Admin/Color\_Unix\_Linux/LinuxFilter/Usa/
- Black and White MFP  
[Install Disc]/Admin/BW\_Unix\_Linux/LinuxFilter/Usa/

### CUPS PPD file

The PPD file to enable printing from CUPS is included in the following folder:  
Choose the appropriate file depending on the model to be used.

- 
- Color MFP
    - [Install Disc]/Admin/Color\_Unix\_Linux/CUPS/Usa/2-sided\_default/  
This PPD file enables to set 2-sided printing by default.
    - [Install Disc]/Admin/Color\_Unix\_Linux/CUPS/Usa/normal/  
This PPD file enables to set 1-sided printing by default.
  - Black and White MFP
    - [Install Disc]/Admin/BW\_Unix\_Linux/CUPS/Usa/2-sided\_default/  
This PPD file enables to set 2-sided printing by default.
    - [Install Disc]/Admin/BW\_Unix\_Linux/CUPS/Usa/normal/  
This PPD file enables to set 1-sided printing by default.

**Tip**

When this equipment is used in Europe or North America, install the PPD file enabling 2-sided printing by default.

## Contents of Installer

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The following software can be installed by the Installer in the Install Disc.

### **Printer drivers (Printing function)**

Printer drivers are software components that enable application programs to interact with the TOSHIBA MFP. The TOSHIBA MFP comes with three printer drivers, Universal Printer 2 (PCL6, PostScript), Universal PS3 (PostScript) and Universal XPS printer drivers. These printer drivers offer document print, layout and assembly functions that are not available with many applications.

### **TWAIN driver (Scanning function)**

This software component enables you to import e-Filing documents into TWAIN-compliant applications.

### **File Downloader**

This software component enables you to import e-Filing documents into your hard disk.

### **Remote Scan driver (Scanning function)**

This software allows you to perform scanning the originals set in the equipment remotely from a client computer and acquire the image into the TWAIN-compliant application.

### **WIA driver (Scanning function)**

This software allows you to perform scanning the originals set in the equipment remotely from a client computer and acquire the image into the WIA-compliant application.

### **N/W-Fax driver (Printing function)**

The N/W-Fax driver enables you to set up send lists and send electronic documents from your client computer to one or more destinations. You print to the fax much the same way you would choose to print to a designated printer that makes using the N/W-Fax driver quick and simple. You can select the fax properties.

### **AddressBook Viewer**

With the AddressBook Viewer you can easily add or modify fax recipient names, fax numbers, and Internet Fax address (E-mail address) to the address book. This utility allows you to manage recipients of the fax, select and display fax recipients from the address book, as well as recipient fax numbers and other contact information.

## Precautions for Using Firewall Software

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When firewall software is used on Windows computers, installation may not be performed since network communication between this equipment and the computers is blocked by firewall software. Check if firewall software is used before installation, and follow the directions of your network administrator if it is used.

Client software required for network communications and the execution files are given as follows. Use this information for the exception setting of the firewall software.

**Individual installer:** setup.exe

**Software Installer:** Setup.exe

**Printer driver, N/W-FAX driver:** printui.exe

**File Downloader:** ESFileDL.exe

**AddressBook Viewer:** ABVExe.exe (for 32-bit edition), ABVExe6.exe (for 64-bit edition)

**Backup/Restore Utility:** ESeFBKRT.exe

### Notes

- For a TWAIN driver, Remote Scan driver and WIA driver, the execution files of the corresponding application software need to be set as exceptions.
- When Individual installer or Software Installer is set as an exception, release the exception setting after installation.

# Downloading Software From TopAccess

If the system administrator has uploaded the software to the TOSHIBA MFP, you can download the software from TopAccess to install them on your computer.

The following software can be downloaded from TopAccess.

- Installer for Windows
  - 📖 P.18 “Downloading installer for Windows”
- Mac OS PPD files
  - 📖 P.20 “Downloading Mac OS PPD files”
- UNIX/Linux filters
  - 📖 P.21 “Downloading UNIX/Linux filters”

### Tip

For instructions on how to start up the TopAccess or upload software to the equipment, refer to the **TopAccess Guide**.

## ■ Downloading installer for Windows

**1** In TopAccess, click the [Install Software] link at the bottom of the screen.

The screenshot shows the TopAccess web interface. At the top, there are navigation tabs: Device, Job Status, Logs, Registration, and Counter. The 'Device' tab is selected. On the right side, there are links for 'e-Filing' and 'Login'. The main content area is titled 'Device' and features a 'Device Information' table, a 'Paper' table, and a 'Toner' section. At the bottom left, there is a blue bar with the text 'Install Software' and a mouse cursor pointing to it. The footer contains copyright information: '©2016 TOSHIBA TEC CORPORATION All Rights Reserved'.

Status	Ready
Name	MFP11532933
Location	
Copier Model	TOSHIBA e-STUDIO2500AC
Serial Number	CFHE01020
MAC Address	00:80:91:af:fa:85
Main Memory Size	4096 MB
Page Memory Size	452 MB
Save as File & e-Filing Space Available	120843 MB
Fax Space Available	974 MB
Contact Information	
Phone Number	
Message	
Alerts	•

Drawer	Size	Thickness	Attribute	Capacity	Level
Drawer 1	A4	Plain	None	250	■■■■
Drawer 2	A3	Plain	None	550	■■■■
Drawer 3	A4R	Plain	None	550	■■■■
Drawer 4	B4	Plain	None	550	■■■■

Yellow(Y)	■■■■■	99%
Magenta(M)	■■■■■	100%
Cyan(C)	■■■■■	99%
Black(K)	■■■■■	99%

## 2 Click the [Install Client1] link to download the installer file.

**TopAccess**

**Install Client Software**

[Drivers](#) | [Unix Filters](#) | [Macintosh PPD Files](#)

Please click on the link(s) below. The Driver installation will be started automatically.

File Name	Size
<a href="#">TOSHIBA Universal Printer 2</a>	1155(KB)
<a href="#">TOSHIBA Universal PS3</a>	1155(KB)
<a href="#">TOSHIBA Universal XPS</a>	1155(KB)

Please click on the link(s) below to download the Windows Installer Files.

File Name	Size
<a href="#">Install Client1</a>	0(KB)

### Tip

Links for installing the printer drivers are also provided on this page. For instructions on how to install them from TopAccess, see the following page:  
 📖 P.53 “Installing the printer drivers from TopAccess”

## 3 Download the installer file on your desktop by following the prompts.

## 4 Double-click the downloaded file to extract the installer files.

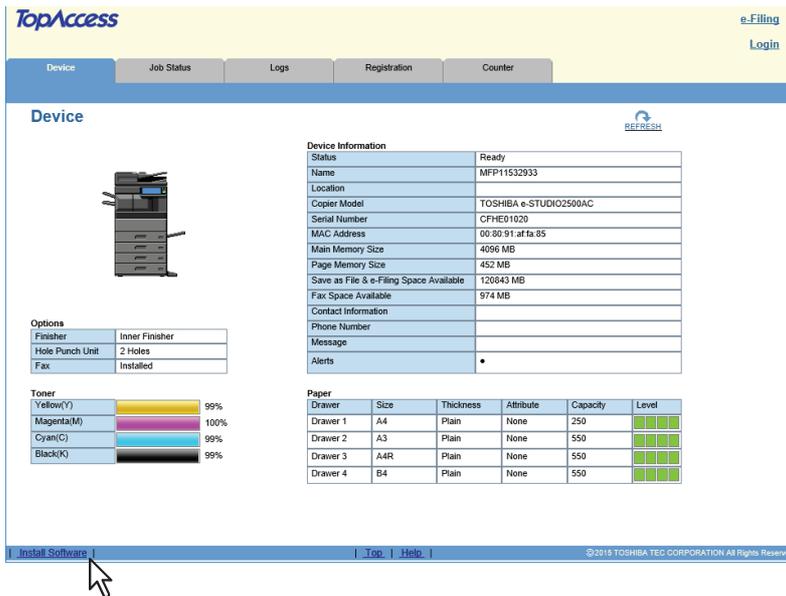
After extracting the downloaded file, folders that include WebInstaller.exe are created. In order to install software using these files, you must run the WebInstaller.exe with an administrator privilege. If you use Windows Vista / Windows 7 / Windows Server 2008 and do not have the administrator privilege, right click [WebInstaller.exe], select [Run as administrator] and enter the Administrator password.

The names of folders that include WebInstaller.exe are as follows:

- ABV32 — contains the installer for AddressBook Viewer for Windows 32-bit edition OSs.
- ABV64 — contains the installer for AddressBook Viewer for Windows 64-bit edition OSs.
- FD — contains the installer for File Downloader.
- RS32 — contains the installer for Remote Scan driver for Windows 32-bit edition OSs.
- RS64 — contains the installer for Remote Scan driver for Windows 64-bit edition OSs.
- XPS — contains the installer for Universal XPS printer driver.
- NWFAX — contains the installer for N/W-Fax driver.
- UNI — contains the installer for Universal Printer 2 driver.
- PS3 — contains the installer for Universal PS3 (PostScript) printer driver.
- TWAIN32 — contains the installer for TWAIN driver for Windows 32-bit edition OSs.
- TWAIN64 — contains the installer for TWAIN driver for Windows 64-bit edition OSs.
- WIA — contains the installer for WIA driver.

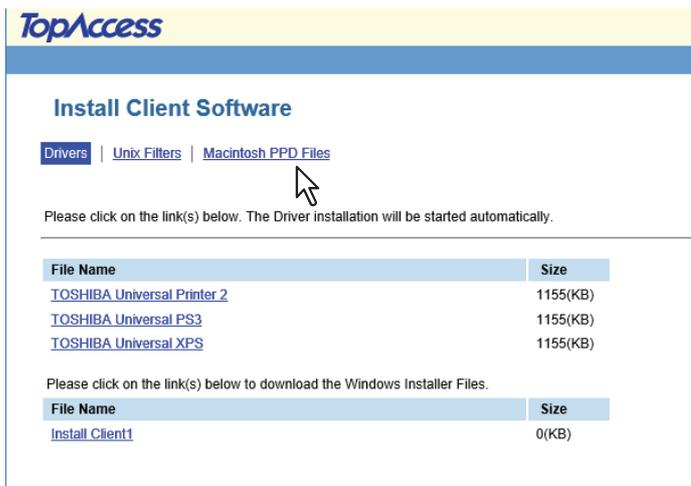
## ■ Downloading Mac OS PPD files

### 1 In TopAccess, click the [Install Software] link at the bottom of the screen.



The screenshot shows the TopAccess web interface. At the top, there are navigation tabs: Device, Job Status, Logs, Registration, and Counter. The 'Device' tab is selected. Below the navigation, there is a 'Device' section with a refresh button. On the left, there is an image of a printer and a table of options: Finisher (Inner Finisher), Hole Punch Unit (2 Holes), and Fax (Installed). Below that is a 'Toner' section with a progress bar for Yellow (99%), Magenta (100%), Cyan (99%), and Black (99%). On the right, there is a 'Device Information' table with fields like Status (Ready), Name (MFP11532033), Location, Copier Model (TOSHIBA e-STUDIO2500AC), Serial Number (CFHE01020), MAC Address (00:80:91:af:fa:85), Main Memory Size (4096 MB), Page Memory Size (452 MB), Save as File & e-Filing Space Available (120843 MB), Fax Space Available (974 MB), Contact Information, Phone Number, Message, and Alerts. Below that is a 'Paper' table with columns: Drawer, Size, Thickness, Attribute, Capacity, and Level. At the bottom of the page, there is a footer with 'Install Software', 'Top', and 'Help' links, and a copyright notice: ©2016 TOSHIBA TEC CORPORATION All Rights Reserved.

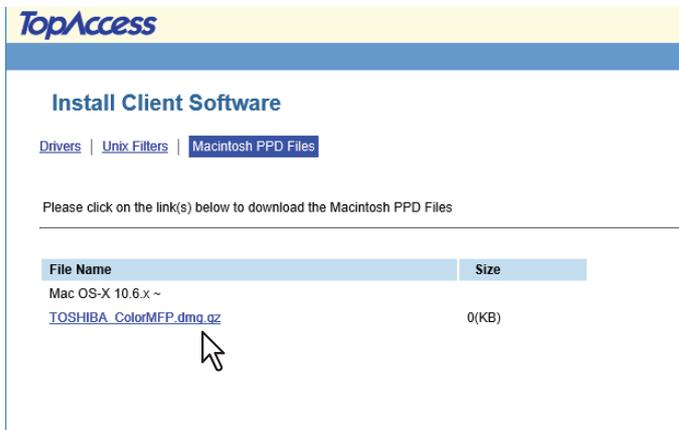
### 2 Click the [Macintosh PPD Files] link.



The screenshot shows the 'Install Client Software' page in the TopAccess web interface. At the top, there are navigation tabs: Drivers, Unix Filters, and Macintosh PPD Files. The 'Macintosh PPD Files' tab is selected. Below the navigation, there is a section titled 'Please click on the link(s) below. The Driver installation will be started automatically.' Below this, there is a table with columns: File Name and Size. The table contains three rows: TOSHIBA Universal Printer 2 (1155(KB)), TOSHIBA Universal PS3 (1155(KB)), and TOSHIBA Universal XPS (1155(KB)). Below this table, there is another section titled 'Please click on the link(s) below to download the Windows Installer Files.' Below this, there is another table with columns: File Name and Size. The table contains one row: Install Client1 (0(KB)).

The software components list is displayed.

### 3 Click the File Name link that you want to download.



The screenshot shows the 'Install Client Software' page in the TopAccess web interface. At the top, there are navigation tabs: Drivers, Unix Filters, and Macintosh PPD Files. The 'Macintosh PPD Files' tab is selected. Below the navigation, there is a section titled 'Please click on the link(s) below to download the Macintosh PPD Files'. Below this, there is a table with columns: File Name and Size. The table contains one row: Mac OS-X 10.6.x ~ TOSHIBA\_ColorMFP.dmg.gz (0(KB)).

**TOSHIBA\_XXXXMFP.dmg.gz** — Click this link to download the PPD file for Mac OS X 10.6.8 or later.

\* If "Color" is applied to the portion marked with "XXXX" of the file name, the file is intended for the color MFPs. If "Mono" is applied to there, the file is intended for the black and white MFPs. Choose either "Color" or "Mono" depending on the model to be used.

### 4 Download the PPD file of your Mac OS version on your desktop by following the prompts.

## ■ Downloading UNIX/Linux filters

### 1 In TopAccess, click the [Install Software] link at the bottom of the screen.

The screenshot shows the TopAccess web interface. At the top, there are navigation tabs: Device, Job Status, Logs, Registration, and Counter. The 'Device' tab is active. Below the tabs, there is a 'Device' section with a printer icon and a 'Device Information' table. To the left of the printer icon are 'Options' and 'Toner' sections. At the bottom left, the 'Install Software' link is highlighted with a mouse cursor.

Item	Value
Status	Ready
Name	MFP11532033
Location	
Copier Model	TOSHIBA e-STUDIO2500AC
Serial Number	CFHE01020
MAC Address	00:80:91:af:fa:85
Main Memory Size	4096 MB
Page Memory Size	452 MB
Save as File & e-Filing Space Available	120843 MB
Fax Space Available	974 MB
Contact Information	
Phone Number	
Message	
Alerts	*

Option	Status
Finisher	Inner Finisher
Hole Punch Unit	2 Holes
Fax	Installed

Color	Level
Yellow(Y)	99%
Magenta(M)	100%
Cyan(C)	99%
Black(K)	99%

Drawer	Size	Thickness	Attribute	Capacity	Level
Drawer 1	A4	Plain	None	250	Full
Drawer 2	A3	Plain	None	550	Full
Drawer 3	A4R	Plain	None	550	Full
Drawer 4	B4	Plain	None	550	Full

### 2 Click the [Unix Filters] link.

The screenshot shows the 'Install Client Software' page. At the top, there are navigation tabs: Drivers, Unix Filters, and Macintosh PPD Files. The 'Unix Filters' tab is active. Below the tabs, there is a message: 'Please click on the link(s) below. The Driver installation will be started automatically.' Below this message is a table with columns 'File Name' and 'Size'. At the bottom, there is another message: 'Please click on the link(s) below to download the Windows Installer Files.' Below this message is another table with columns 'File Name' and 'Size'. The 'Unix Filters' link is highlighted with a mouse cursor.

File Name	Size
<a href="#">TOSHIBA Universal Printer 2</a>	1155(KB)
<a href="#">TOSHIBA Universal PS3</a>	1155(KB)
<a href="#">TOSHIBA Universal XPS</a>	1155(KB)

File Name	Size
<a href="#">Install Client1</a>	0(KB)

The software components list is displayed.

### 3 Click the UNIX/Linux filter link that you want to install.

The screenshot shows the 'Install Client Software' page. At the top, there are navigation tabs: Drivers, Unix Filters, and Macintosh PPD Files. The 'Unix Filters' tab is active. Below the tabs, there is a message: 'Please click on the link(s) below to download the Unix Filters'. Below this message is a table with columns 'File Name' and 'Size'. The 'Unix Filters' link is highlighted with a mouse cursor.

File Name	Size
<a href="#">AIX Filter</a>	0(KB)
<a href="#">HP-Unix Filter</a>	0(KB)
<a href="#">HP-Unix 64 Filter</a>	0(KB)
<a href="#">Linux Filter</a>	0(KB)
<a href="#">Open Unix Filter</a>	0(KB)
<a href="#">Solaris Filter</a>	0(KB)

### 4 Download the UNIX/Linux tar file containing the UNIX/Linux filters on your desktop by following the prompts.

## Setting Up NetWare Print Server

---

This equipment supports the following Novell printing services:

- NetWare 6.5 iPrint mode

This chapter provides an overview of how to set up this equipment as a Novell Network Printer, Print Server, or NDPS Printer Agent. For more detailed information, refer to your Novell documentation.

### ■ Setting up the Novell iPrint

This equipment also supports the Novell iPrint. Using the Novell iPrint, you can set up the printer that can be accessed using URL from client computers. The Novell iPrint is based on the NDPS architecture so that you must have NDPS installed and configured in the NetWare print server.

Before setting up the Novell iPrint, confirm the following:

- The NDPS Broker, NDPS Manager, and NDPS Printer must be created.
- The Novell iManager must be installed.

For more information about installing the Novell iManager, see the documentation for the Novell iManager that is provided by Novell, Inc.

In order to set up the iPrint system, the network administrator must do the following:

1. Installing Novell iPrint  
 P.22 “Installing Novell iPrint”
2. Enabling the DNS on the Printer Services Manager  
 P.22 “Enabling DNS”
3. Enabling iPrint service  
 P.23 “Enabling Novell iPrint”

### □ Installing Novell iPrint

- 1** Install iPrint Client from “[http://\[IP address of NetWare server\]/ipp](http://[IP address of NetWare server]/ipp)”.

### □ Enabling DNS

Before enabling DNS for the Printer Services Manager, you should add the DNS name for the Printer Services Manager to the DNS server.

After you add the DNS to the DNS server, follow the steps below to enable the DNS on the Printer Services Manager.

- 1** **At the server console, enter the following syntax.**  
NDPSM <NDPS Manager Name> /dnsname=<NDPS Manager DNS Name>

## ❑ Enabling Novell iPrint

After enabling DNS on the Printer Services Manager, enable the Novell iPrint using the Novell iManager.

### Notes

- To do this, Novell iManager must be installed on your NetWare print server. For information about installing iManager, see the documentation for Novell iManager that is provided by Novell, Inc.
- You must use a supported browser to access iManager. The supported browsers vary depending on the version of iManager that you installed.

For more information, see the documentation for the Novell iManager that is provided by Novell, Inc.

- 1 Enter the URL “https://<IP address>/nps/iManager.html” into the address bar of your browser to launch iManager.**
- 2 Enter the user name, password, and Tree to log in to Novell iManager.**
- 3 Click [iPrint] in Roles and Tasks, and click [Manage Printer].**
- 4 Select the printer that you created for the equipment.**
- 5 Click [OK].**
- 6 Click [Client Support] and click [iPrint Support].**
- 7 Select the [Enable iPrint support] check box.**
- 8 If you want to secure printing, select the [Enable secure printing] check box.**  
When the option is enabled, users must be authenticated to eDirectory using the user name and password.
- 9 Click [Apply] or [OK] to save settings.**

---

## ■ Configuring the LPR connection

- 1 Select [Create Printer].**  
The dialog box for creating the printer appears.
- 2 Specify the [Printer name] and [Print Manager name] options, select [Novell Gateway] in the [Gateway Type] list, and then click [Next].**  
The dialog box for configuring Novell Gateway appears.
- 3 Enter the IP address of this equipment in [Host IP address], specify “PORT\_PASSTHROUGH” in [LPR Printer name], and then click [Next].**  
The dialog box for selecting the driver appears.
- 4 The screen telling you that the printer has been created normally appears.**  
Select the printer drivers to be installed in the [Printer Drivers] list at each OS tab, and click [Next].
- 5 Click [OK].**

## RECOMMENDED INSTALLATION

This chapter describes the recommended installation of the Installer.

<b>Procedure for Recommended Installation .....</b>	<b>26</b>
<b>Precautions for Changing the SNMP Settings .....</b>	<b>30</b>

## Procedure for Recommended Installation

Install the software using the recommended installation when you want to do so for the Universal Printer 2 driver and other client software on a Windows computer.

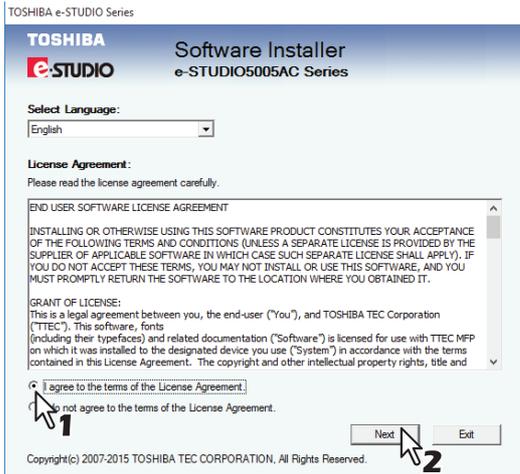
### Note

To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.

### 1 Insert the Install Disc into the disc drive.

If Software Installer does not automatically start, use the Explorer to open the “e-STUDIO” folder in the Install Disc and double-click “Setup.exe”.

### 2 Select [I agree to the terms of the License Agreement.] and click [Next].



To change the display language, select the desired language from the [Select Language] box.

### 3 Click [Recommended].

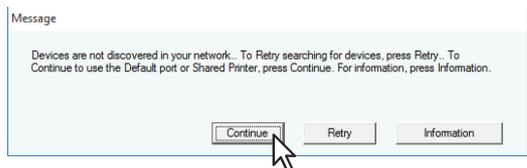


#### 4 Confirm the list of the software to install and click [Install].



#### Note

- If the following message appears, click [Continue].



See step 7 or later in the following section to continue the installation:  
 P.41 “If your TOSHIBA MFP is not found”

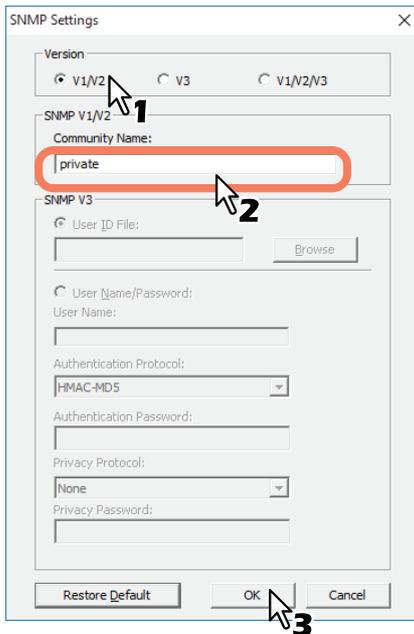
### [SNMP Settings]

If the SNMP settings are not the same in your TOSHIBA MFP and the [SNMP Settings] dialog box, you cannot find your TOSHIBA MFP. Verify the correct SNMP settings on the [SNMP Settings] dialog box and change the settings, if needed.

Ask the administrator for details on the SNMP settings configured for your TOSHIBA MFP.

#### When SNMP V1 and V2 are used

1. Click [V1/V2] if a community name other than “private” (default) is set for the SNMP community name for your TOSHIBA MFP.
2. Change the SNMP community name.
3. Click [OK].



#### Note

When you change the SNMP community name, see the following page:

 P.30 “Precautions for Changing the SNMP Settings”

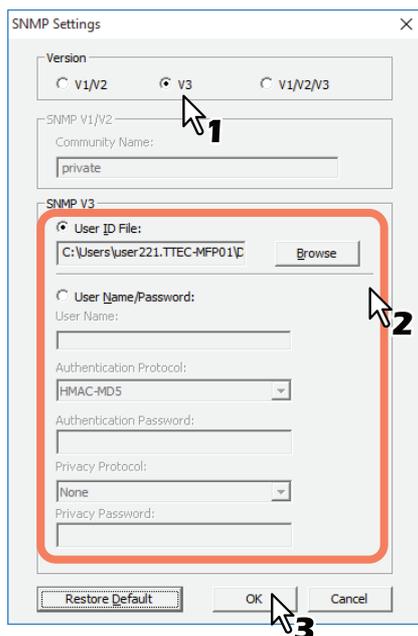
#### When SNMP V3 is used

1. Click [V3].
2. When a user ID file is used for authentication, click [Browse] to specify the file.  
When user authentication information is used for authentication, click [User Name/Password] to enter the necessary information.

#### Notes

- Consult the administrator for preliminary advice on how to authenticate users.
- When you change the SNMP settings, see the following page:  
 P.30 “Precautions for Changing the SNMP Settings”

3. Click [OK].



\* When SNMP V1, V2, and V3 are configured for your TOSHIBA MFP, perform both of the above settings.

**5** A list of the discovered printers is displayed. Then select this equipment on the list and then click [OK].



The TCP/IP port is created.

**6** The installation starts.

**7** When the installation is complete, click [Finish].

The main menu is displayed.

#### Tip

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

**8** Click [Exit].

When a message “Do you want to close TOSHIBA e-STUDIO Software Installer?” appears asking whether to finish the installer, click [Yes].

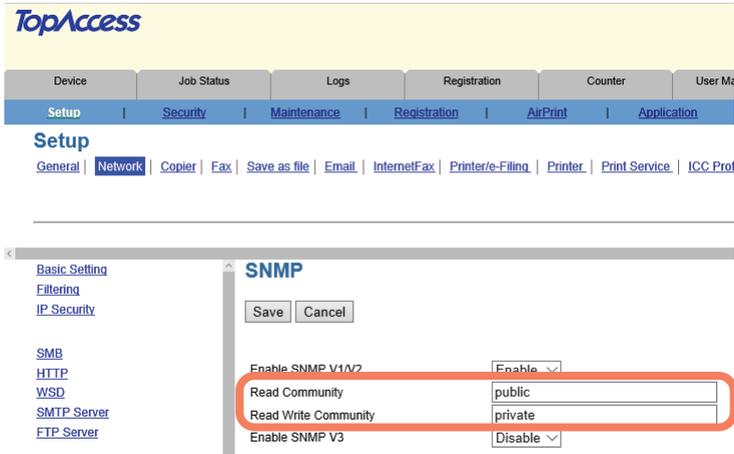
## Precautions for Changing the SNMP Settings

When the SNMP community name or user information is used for authenticating users on your TOSHIBA MFP, the SNMP settings must be the same in your TOSHIBA MFP and the [SNMP Settings] dialog box as shown below in order to print or send jobs normally.  
For help, consult the administrator.

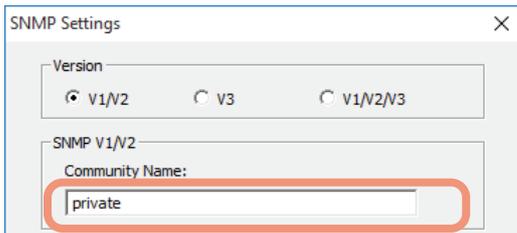
### ■ When SNMP V1 and V2 are configured for your TOSHIBA MFP

When the TCP/IP port is used, the SNMP community names must be the same in the following 3 settings.

1. Your TOSHIBA MFP (Example: Read Community “public” and Read Write Community “private” are set.)

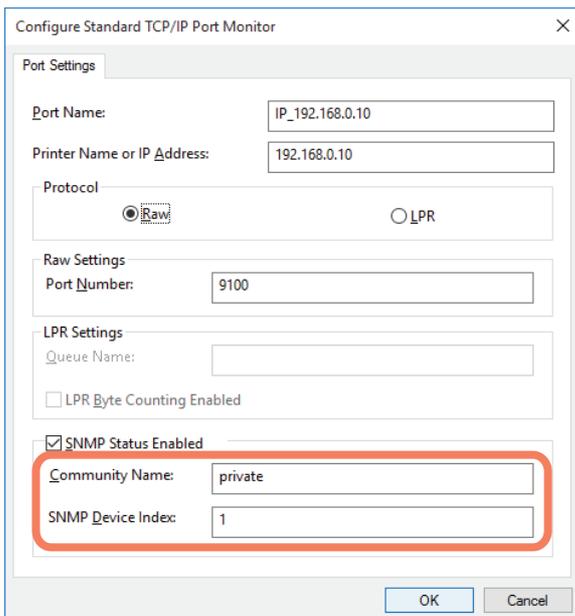


2. [SNMP Settings] dialog box



The Read Write Community names must be the same in your TOSHIBA MFP and the [SNMP Settings] dialog box. If you specify the incorrect Read Write Community name, the several functions, such as the department management feature will be disabled.

3. TCP/IP port of the [Port Settings] tab in the printer driver/N/W-Fax driver



The Read Community Names must be the same in your TOSHIBA MFP and the [Ports] tab. Make sure that the value of [SNMP Device Index] in the [Port Settings] tab is set to "1".

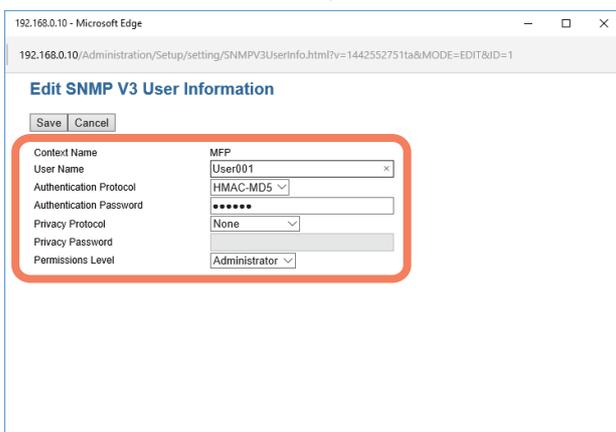
**Notes**

- Make sure that the value of [SNMP Device Index] in the [Port Settings] tab is set to "1". If it is "0", no communication can be made with the device.
- When the SMB port is used, the Read Write Community names must be the same in your TOSHIBA MFP and the [SNMP Settings] dialog box.
- The SNMP settings also must be the same in your TOSHIBA MFP and the applications (TWAIN driver, File Downloader, and AddressBook Viewer) included in the Install Disc. If the settings are different, the applications will be unavailable.

**When SNMP V3 is configured for your TOSHIBA MFP**

The SNMP settings must be the same in the following 2 settings.

1. SNMP V3 User Information in your TOSHIBA MFP



## 2. [SNMP Settings] dialog box

SNMP Settings

Version

V1/V2  V3  V1/V2/V3

SNMP V1/V2

Community Name:

private

SNMP V3

User ID File:

C:\Users\user221.TTEC-MFP01\ Browse

User Name/Password:

User Name:

Authentication Protocol:

HMAC-MD5

Authentication Password:

Privacy Protocol:

None

Privacy Password:

Restore Default OK Cancel

SNMP V3 User Information must be the same in your TOSHIBA MFP and the [SNMP Settings] dialog box.

### Note

The SNMP settings also must be the same in your TOSHIBA MFP and the applications (TWAIN driver, File Downloader, and AddressBook Viewer) included in the Install Disc. If the settings are different, the applications will be unavailable.

# INSTALLING PRINTER DRIVERS FOR WINDOWS

This chapter provides instructions on how to install printer drivers for Windows.

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## Before Installation

---

This section will help you to plan an installation suited to your environment. Before installing the printer drivers, read this section.

### When the same printer drivers have been installed previously

Before updating the printer drivers, delete the existing printer drivers.

 P.82 “Uninstalling Printer Drivers”

If you want to reinstall the same type of printer driver with another version, first uninstall the existing one and restart your computer.

## ■ Type of printer drivers

- **Universal Printer 2 driver** — Two printer drivers (PCL6 and PS3) are integrated into this Printer driver. You can use it depending on the purposes of the applications in various usages.
- **Universal PS3 printer driver** — This printer driver is suitable for printing from a general application, such as a DTP application supporting PostScript.
- **Universal XPS printer driver** — This printer driver is suitable for printing from an application developed exclusively for Windows Vista, such as Windows Presentation Foundation (WPF).

### Tips

- The Universal Printer 2 driver allows you to use both PCL and PS3 by shifting PDL (Page Description Language). It also allows you to print documents on other equipment of the e-STUDIO series. For details, refer to the **Printing Guide**.
- A printer description file for popular Windows applications is contained in the Install Disc. Copy the file to a proper directory. For details, see the following page:  
 P.81 “Copying the PPD File for Windows”

## ■ System requirements

To install the printer drivers and other client software on a Windows computer, the following is required.

- **Display resolution**  
1024 x 768 dots or more
- **Display color**  
High Color (16bit) or higher is recommended
- **CPU**  
Pentium 133 MHz minimum (Pentium 266 MHz or faster recommended)
- **Memory**  
The required memory size for OS.
- **OS**  
Windows Vista Service Pack 2  
Windows 7 (Service Pack 1 recommended)  
Windows 8.1  
Windows 10  
Windows Server 2008 Service Pack 2  
Windows Server 2012

## ■ About installation procedure

Install the software according to your connection environment and the print method.:

### Raw TCP/LPR printing

This equipment supports the Raw TCP and LPR printing via TCP/IP. When this equipment is connected to your computer in a TCP/IP network, Raw TCP/LPR printing may be most suitable.

📖 P.36 “Installing the Printer Drivers”

#### Tips

- To print with a Raw TCP connection, this equipment must be configured to enable Raw TCP Print Service. Ask your administrator if the Raw TCP Print Service is enabled.
- To print with an LPR connection, this equipment must be configured to enable the LPD Print Service. Ask your administrator if the LPD Print Service is enabled.

### SMB printing

This equipment can be used with an SMB printer connection that allows you to connect to this equipment using File and Printer Sharing for Microsoft Networks service. SMB printing is the common method used to set up the printer. However, SMB printing is not suitable for printing a large amount of documents.

📖 P.36 “Installing the Printer Drivers”

#### Note

SMB printing assumes a small network. If you can use Windows Vista, Windows 7, Windows 8.1, Windows 10, Windows Server 2008, or Windows Server 2012 as a print server, it is recommended to set up for printing via Windows print server.

### Internet printing

If you print to this equipment over the Internet, you can use IPP printing. This allows you to print to this equipment from anywhere on the Internet.

📖 P.68 “IPP printing”

#### Tip

To print with an IPP connection, this equipment must be configured to enable the IPP Print Service and must be connected to the Internet. Ask your administrator if the IPP Print Service is enabled.

### Novell iPrint

When this equipment is configured to manage Novell iPrint with NetWare 6.5 over TCP/IP, you can print through the NetWare print server. In this case, install the printer driver using iPrint Client from the NetWare server.

📖 P.73 “Novell iPrint”

### Web Service Print

When this equipment is connected in a TCP/IP network, Web Services Print can be operated at the client computer using the function of Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012.

📖 P.74 “Web Service Print”

## Installing the Printer Drivers

---

This section describes how to install a printer driver to a computer with a Windows OS.

You can install the printer drivers by using the Install Disc, from TopAccess, or from the equipment's shared folder.

- Installing the printer drivers by using the Install Disc

The following two options are available:

- Using Software Installer

When you insert the Install Disc into the disc drive, Software Installer will launch automatically. This program allows you to install the printer drivers and other client software on your computer. Use this option to install the printer drivers and other client software in one go.

 P.37 "Installing the printer drivers by using Software Installer"

- Using the individual installers

The individual installers (Setup.exe) are contained in the Install Disc, which enable you to install the Universal Printer 2 driver, Universal PS3 printer driver, and Universal XPS printer driver individually. Use this option to install only the preferred printer driver.

 P.47 "Installing the printer drivers by using the individual installers"

- Installing the printer drivers from TopAccess

If the Universal Printer 2 driver, Universal PS3 printer driver, and Universal XPS printer driver have been uploaded to the TOSHIBA MFP, you can install the preferred printer driver from TopAccess.

 P.53 "Installing the printer drivers from TopAccess"

- Installing the printer drivers from the equipment's shared folder

The Universal Printer 2 driver, Universal PS3 printer driver, and Universal XPS printer driver are stored in the equipment's shared folder. You can install the preferred printer driver from its folder.

 P.55 "Installing the printer drivers from the equipment's shared folder"

## ■ Installing the printer drivers by using Software Installer

Perform installation corresponding to your Windows computer.

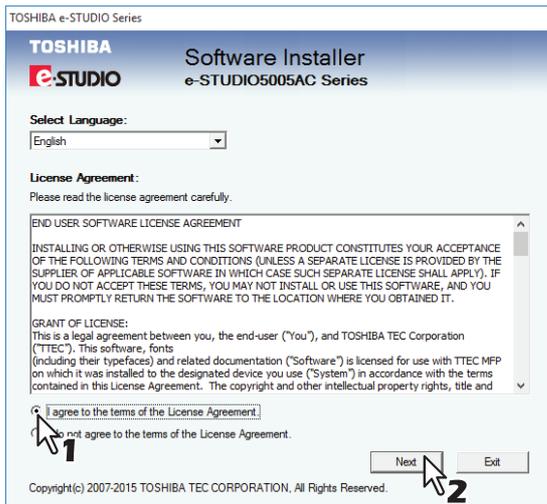
### Note

To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.

### 1 Insert the Install Disc into the disc drive.

If Software Installer does not automatically start, use the Explorer to open the “e-STUDIO” folder in the Install Disc and double-click “Setup.exe”.

### 2 Select [I agree to the terms of the License Agreement.] and click [Next].



To change the display language, select the desired language from the [Select Language] box.

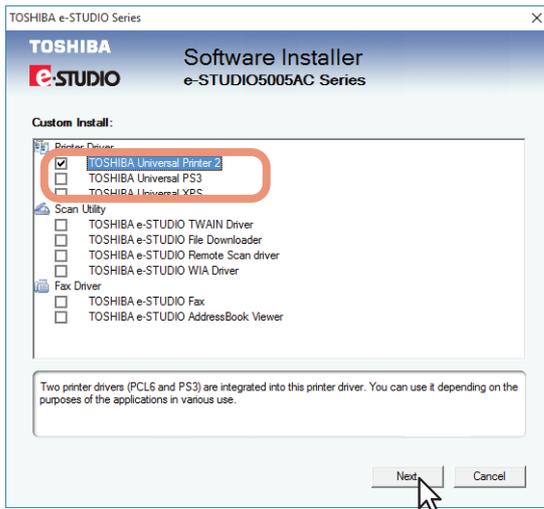
### 3 Click [Printer Driver] or [Custom Install].



**Printer Driver** — This option allows you to install only the Universal Printer 2 driver. When you select it, proceed to step 5.

**Custom Install** — This option allows you to select the printer drivers and utilities which you want to install. When you select it, proceed to step 4.

#### 4 Select the software items which you want to install, and then click [Next].



#### 5 Confirm the list of the software to install and click [Install].

##### Tip

When you want to verify and/or change the SNMP settings to find the target TOSHIBA MFPs, see step 4 in the following section:

📖 P.26 “Procedure for Recommended Installation”

#### 6 Configure the printer port.

The procedure for configuring the printer port varies depending on the connection. Go to the steps suited to your connection.

📖 P.39 “Raw TCP/LPR printing”

📖 P.46 “SMB printing”

## ❑ Raw TCP/LPR printing

Configure the Raw TCP/LPR port as described in the following procedure.

### Notes

Confirm the following before starting the configuration:

- This equipment is connected to the network and turned on.
- The TCP/IP setting is correct on this equipment and your computer.

### Searching your TOSHIBA MFP automatically

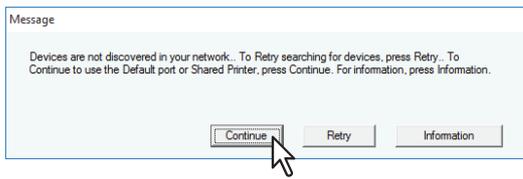
This equipment is automatically discovered over the network. Then you can install printer driver so as to configure the Raw TCP/LPR port.

### Notes

If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Follow the procedure below to continue the configuration.

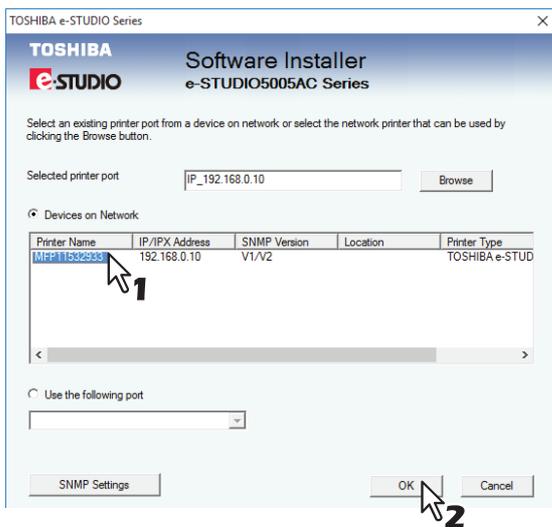
- To search this equipment over the network again, click [Retry].
- Confirm the SNMP settings specified in the [SNMP Settings] dialog box.
- To select a temporary local port and then configure the Raw TCP/LPR port, click [Continue]. Then follow the procedure as described in the following page:

 P.41 “If your TOSHIBA MFP is not found”



- If you know the IP address of this equipment, you can specify a printer port with the direct entry from the keyboard. In step 7, enter a network path shown below in [Selected printer port].  
\\IP\_<IP address>

- 7 A list for the discovered printers is displayed. Then select this equipment on the list and then click [OK].**



The TCP/IP port is created.

**Tip**

Searching may take a while depending on the Windows OS or network environment.

- 8 Confirm that the installation is completed, and then click [Finish].**

**Tip**

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

- 9 Click [Exit].**

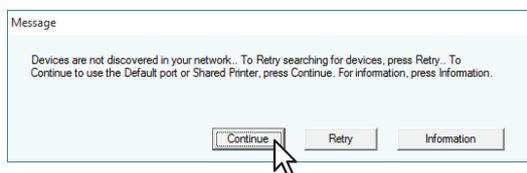
When a message appears asking whether to finish the installer, click [Yes].

## If your TOSHIBA MFP is not found

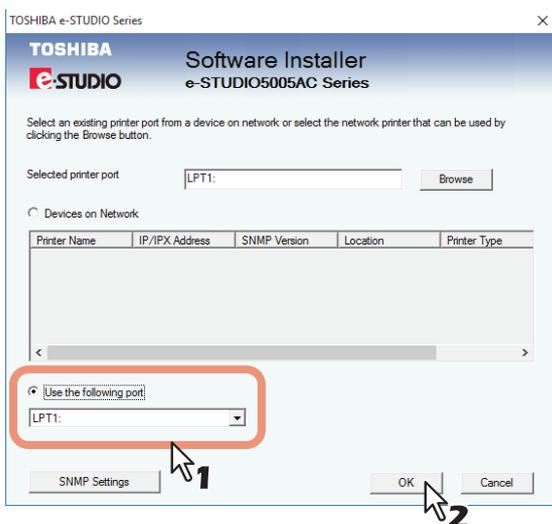
If your TOSHIBA MFP is not found, you must first install the printer driver by temporarily selecting a local port and then configuring the Raw TCP/LPR port.

### Note

If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Click [Continue] to continue the configuration.



## 7 Select [Use the following port] and then select “LPT1: ”. Then click [OK].



## 8 Confirm that the installation is completed, and then click [Finish].

### Tip

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

## 9 Click [Exit].

When a message appears asking whether to finish the installer, click [Yes].

## 10 Open the printers folder.

Right-click [Start], then click [Control Panel] > [View devices and printers].

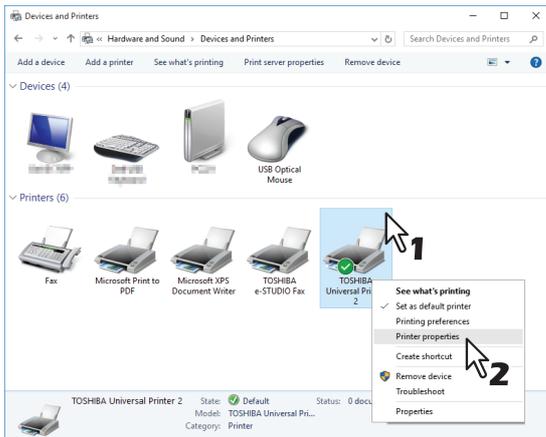
### Tips

- For Windows 8.1 / Windows Server 2012, right-click in the lower left of the screen, then click [Control Panel] > [Devices and Printers].
- For Windows 7, click [Start] > [Devices and Printers].
- For Windows Vista / Windows Server 2008, click [Start] > [Control Panel] > [Hardware and Sound] > [Printers].

## 11 Open the printer driver properties dialog box.

- **When using Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2012**

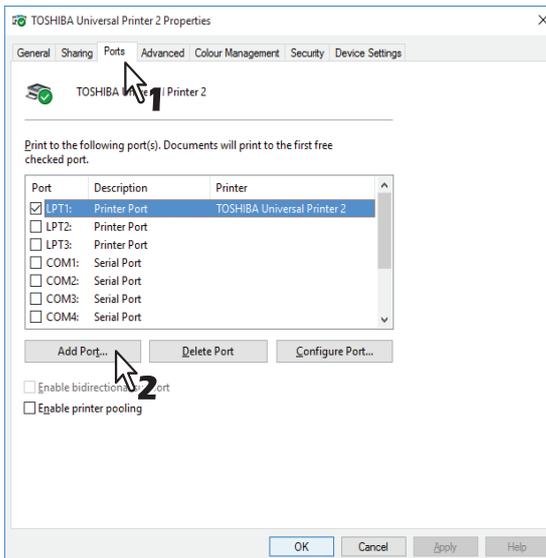
Select the installed printer driver and right-click to make the menu appear, then click [Printer properties].



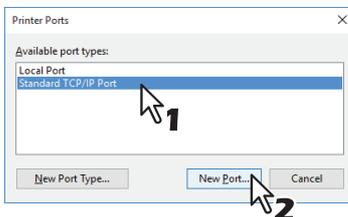
- **When using Windows Vista / Windows Server 2008**

Select the installed printer driver. Click [Organize] and then [Properties].

## 12 Click the [Ports] tab and click [Add Port].

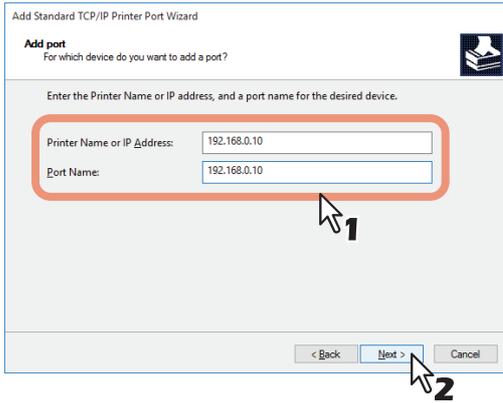


## 13 Select [Standard TCP/IP Port] and click [New Port].



## 14 Click [Next].

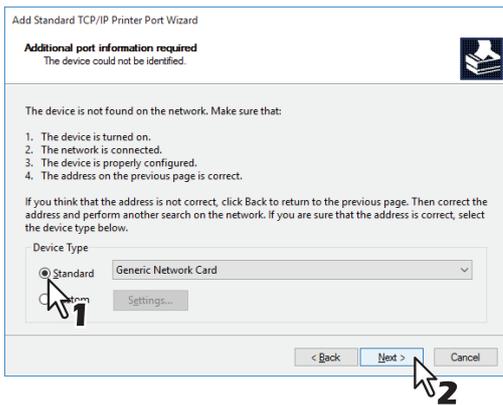
**15** Enter the IP address of this equipment in the [Printer Name or IP Address] box and click [Next].



- If your network uses a DNS or WINS server, enter the printer name of this equipment provided from DNS or WINS in the [Printer Name or IP Address] box.
- In the [Port Name] box, the port name is automatically entered according to the IP address or DNS name entered in the [Printer Name or IP Address] box.
- Enter the IPv6 address in the [Printer Name or IP Address] box when the MFP is connected in an IPv6 network.

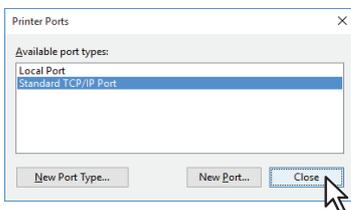
**Note**

If the following screen appears, select [Standard] and click [Next].

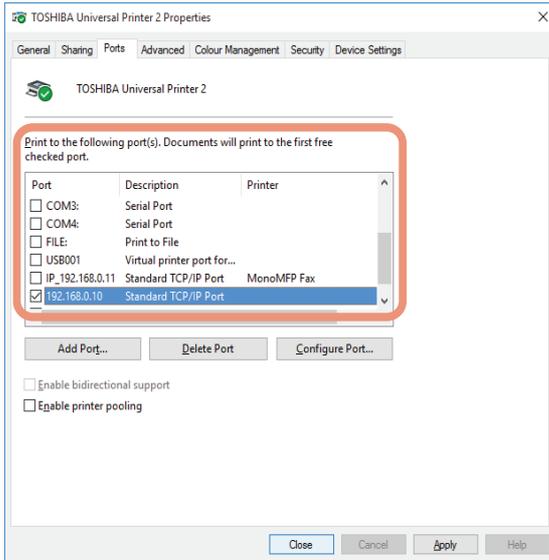


**16** Click [Finish].

**17** Click [Close] to close the [Printer Ports] dialog box.



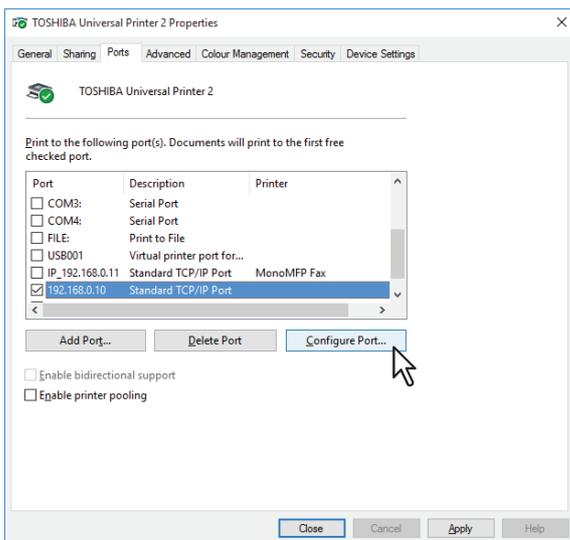
## 18 Make sure the created Raw TCP or LPR port is checked in the [Print to the following port(s)] list.



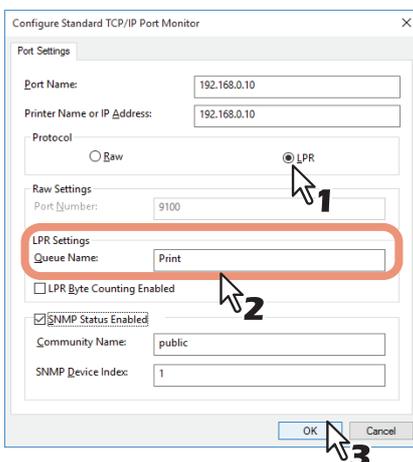
### Tip

When the LPD Print setting is enabled, you can also configure LPR printing. When you want to configure LPR printing, follow the procedure below.

1. Click [Configure Port].



2. Select [LPR] at the [Protocol] group, enter "print" in the [Queue Name] box at the [LPR Settings] group, and then click [OK].



---

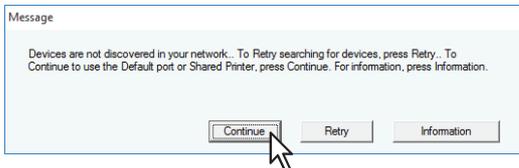
**19** Click [OK] to save the setting.

## ❑ SMB printing

Install a printer driver by specifying the SMB port manually.

### Notes

- Before starting the configuration, make sure that this equipment is connected to a network and also that its power is turned ON.
- If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Click [Continue] to continue the configuration.



## 7 Enter a network path shown below in [Selected printer port].

\\<IP address or host name>\print



## 8 Click [OK].

## 9 Confirm that the installation is completed, and then click [Finish].

### Tip

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

## 10 Click [Exit].

When a message appears asking whether to finish the installer, click [Yes].

## ■ Installing the printer drivers by using the individual installers

Perform installation corresponding to your Windows computer.

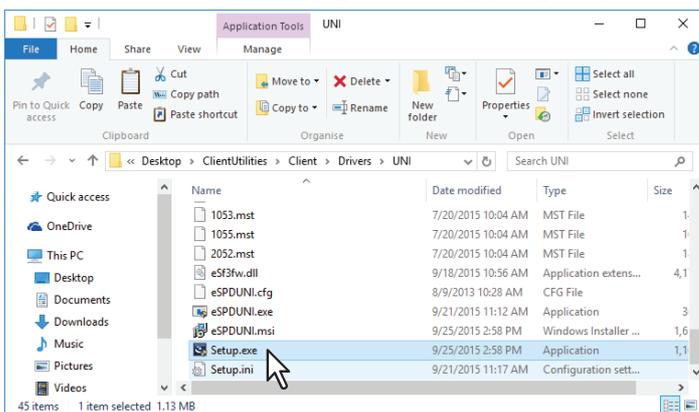
### Note

To perform installation, you must log onto Windows with the “Administrator” account.

### 1 Insert the Install Disc into the disc drive.

When you insert the Install Disc into the disc drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

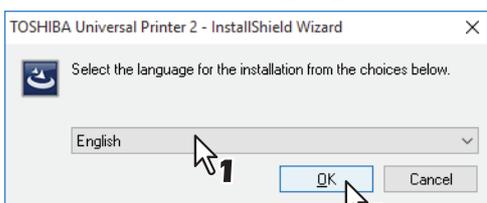
### 2 Open the folder containing the set up program, and double-click “Setup.exe”.



The set up programs for installing the printer drivers are contained in the following folders:

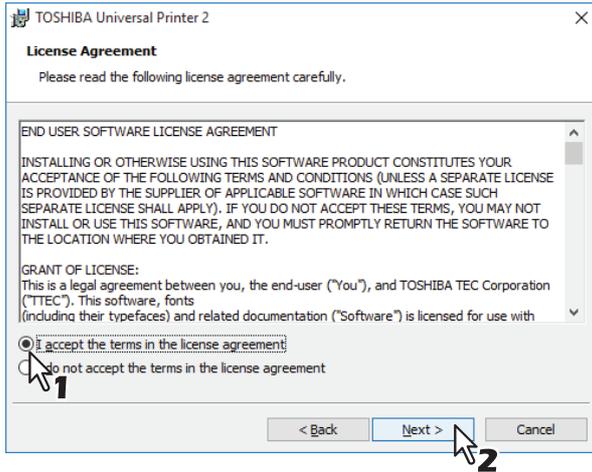
- Universal Printer 2 driver  
[Install Disc]:\Client\Drivers\UNI\
- Universal PS3 printer driver  
[Install Disc]:\Client\Drivers\PS\
- Universal XPS printer driver  
[Install Disc]:\Client\Drivers\XPS\

### 3 Select the desired language, and click [OK].



### 4 Click [Next].

## 5 Select [I accept the terms in the license agreement], and click [Next].



The Select Port screen is displayed.

## 6 Configure the printer port.

The procedure for configuring the printer port varies depending on the connection. Go to the steps suited to your connection.

 P.49 “Raw TCP/LPR printing”

 P.52 “SMB printing”

## ❑ Raw TCP/LPR printing

Configure the Raw TCP/LPR port as described in the following procedure.

### Notes

Confirm the following before starting the configuration:

- This equipment is connected to the network and turned on.
- The TCP/IP setting is correct on this equipment and your computer.

### Searching your TOSHIBA MFP automatically

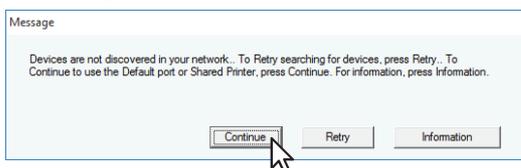
This equipment is automatically discovered over the network. Then you can install the printer driver so as to configure the Raw TCP/LPR port.

### Notes

If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Follow the procedure below to continue the configuration.

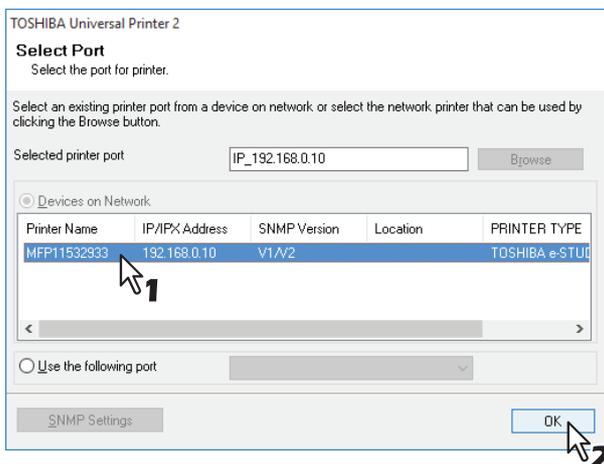
- To search this equipment over the network again, click [Retry].
- Confirm the SNMP settings specified in the [SNMP Settings] dialog box.
- To select a temporary local port and then configure the Raw TCP/LPR port, click [Continue]. Then follow the procedure as described in the following page:

📖 P.51 “If your TOSHIBA MFP is not found”



- If you know the IP address of this equipment, you can specify a printer port with the direct entry from the keyboard. In step 7, enter a network path shown below in [Selected printer port].  
\\IP\_<IP address>

## 7 A list for the discovered printers is displayed. Then select this equipment on the list and then click [OK].



The TCP/IP port is created and the Ready to Install the Program screen will be displayed.

### Tips

- Searching may take a while depending on the Windows OS or network environment.
- When you want to verify and/or change the SNMP settings to find the target TOSHIBA MFPs, see step 4 in the following section:

📖 P.26 “Procedure for Recommended Installation”

## 8 Click [Install].

### Tip

Searching may take a while depending on the Windows OS or network environment.

---

## 9 Confirm that the installation is completed, and then click [Finish].

Tip

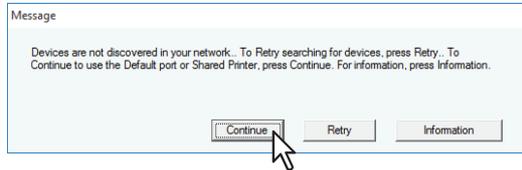
The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

## If your TOSHIBA MFP is not found

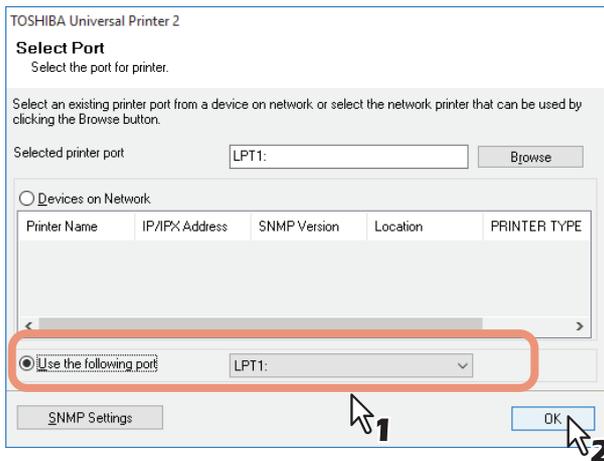
If your TOSHIBA MFP is not found, you must first install the printer driver by temporarily selecting a local port and then configuring the Raw TCP/LPR port.

### Note

If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Click [Continue] to continue the configuration.



## 7 Select [Use the following port] and then select “LPT1: ”. Then click [OK].



## 8 Click [Install].

## 9 Confirm that the installation is completed, and then click [Finish].

### Tip

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

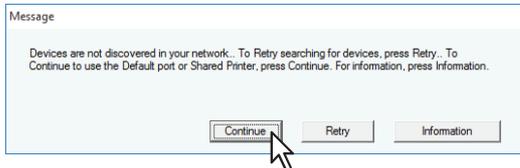
## 10 For the subsequent steps, follow the procedure from step 10 to step 20 on page 41 to page 45.

## ❑ SMB printing

Install a printer driver by specifying the SMB port manually.

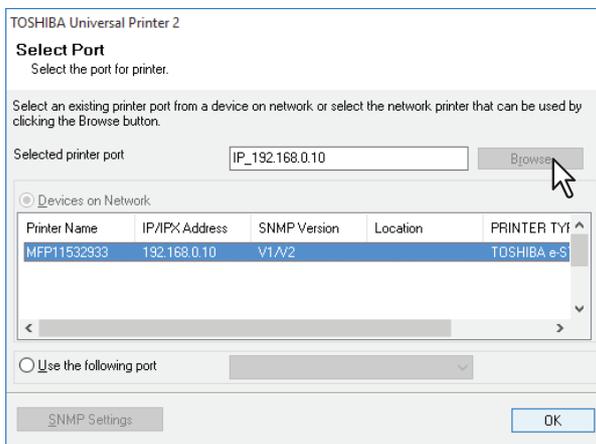
### Notes

- Before starting the configuration, make sure that this equipment is connected to a network and also that its power is turned ON.
- If this equipment is not discovered over the network after the installation is started, a dialog box indicating this appears. Click [Continue] to continue the configuration.



## 7 Enter a network path shown below in [Selected printer port].

\\<IP address or host name>\print



## 8 Click [OK].

## 9 Click [Install].

## 10 Confirm that the installation is completed, and then click [Finish].

### Tip

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

## ■ Installing the printer drivers from TopAccess

Perform installation corresponding to your Windows computer.

### Notes

- The following is necessary to use this option:
  - The hard disk is installed in the equipment.
  - The SMB protocol is enabled, and the file share function is not restricted.  
For details, ask your administrator.
- To perform installation, you must log onto Windows with the “Administrator” account.

### 1 In TopAccess, click the [Install Software] link at the bottom of the screen.

The screenshot shows the TopAccess web interface. At the top, there are navigation tabs: Device, Job Status, Logs, Registration, and Counter. The 'Device' tab is active. On the left, there is a device image and a table of options:

Options	
Finisher	Inner Finisher
Hole Punch Unit	2 Holes
Fax	Installed

Below the options is a toner level indicator:

Toner		
Yellow(Y)	<div style="width: 99%;"></div>	99%
Magenta(M)	<div style="width: 100%;"></div>	100%
Cyan(C)	<div style="width: 99%;"></div>	99%
Black(K)	<div style="width: 99%;"></div>	99%

On the right, there is a 'Device Information' table:

Device Information	
Status	Ready
Name	MFP11532933
Location	
Copier Model	TOSHIBA e-STUDIO2500AC
Serial Number	CFHE01020
MAC Address	00:80:91:af:fa:85
Main Memory Size	4096 MB
Page Memory Size	452 MB
Save as File & e-Filing Space Available	120843 MB
Fax Space Available	974 MB
Contact Information	
Phone Number	
Message	
Alerts	•

Below the device information is a 'Paper' table:

Drawer	Size	Thickness	Attribute	Capacity	Level
Drawer 1	A4	Plain	None	250	<div style="width: 100%;"></div>
Drawer 2	A3	Plain	None	550	<div style="width: 100%;"></div>
Drawer 3	A4R	Plain	None	550	<div style="width: 100%;"></div>
Drawer 4	B4	Plain	None	550	<div style="width: 100%;"></div>

At the bottom of the page, there is a blue bar with the following text: [Install Software](#) | [Top](#) | [Help](#) | © 2015 TOSHIBA TEC CORPORATION All Rights Reserved. A mouse cursor is pointing to the 'Install Software' link.

### 2 Click the file name link for installing the preferred printer driver.

The screenshot shows the 'Install Client Software' page in the TopAccess web interface. At the top, there are navigation tabs: Drivers, Unix Filters, and Macintosh PPD Files. The 'Drivers' tab is active. Below the tabs, there is a message: "Please click on the link(s) below. The Driver installation will be started automatically."

Below the message is a table of driver files:

File Name	Size
<a href="#">TOSHIBA Universal Printer 2</a>	1155(KB)
<a href="#">TOSHIBA Universal PS3</a>	1155(KB)
<a href="#">TOSHIBA Universal XPS</a>	1155(KB)

Below the table, there is another message: "Please click on the link(s) below to download the Windows Installer Files."

Below the message is another table of installer files:

File Name	Size
<a href="#">Install Client1</a>	0(KB)

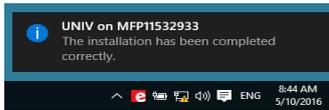
At the bottom of the page, there is a blue bar with the following text: © 2015 TOSHIBA TEC CORPORATION All Rights Reserved. A mouse cursor is pointing to the 'TOSHIBA Universal Printer 2' link, which is highlighted with a red box.

The installation begins, and the TCP/IP port (IPv4) is created automatically.

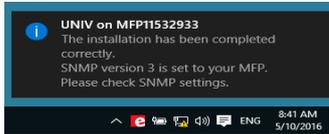
### 3 The installation is completed.

The result of the installation is displayed on the task bar.

- The printer driver has been installed normally (when SNMP V1 and V2 are configured for your TOSHIBA MFP).



- The printer driver has been installed normally (when SNMP V3 is configured for your TOSHIBA MFP).



For instructions on how to check the SNMP settings, refer to “[SNMP Settings]” in the following section:

 P.26 “Procedure for Recommended Installation”

- When the equipment is connected in an IPv4 network, the installation is now complete.  
When the equipment is connected in an IPv6 network, configure the printer port manually referring to the procedures from step 10 in the following section:  
 P.41 “If your TOSHIBA MFP is not found”

## ■ Installing the printer drivers from the equipment’s shared folder

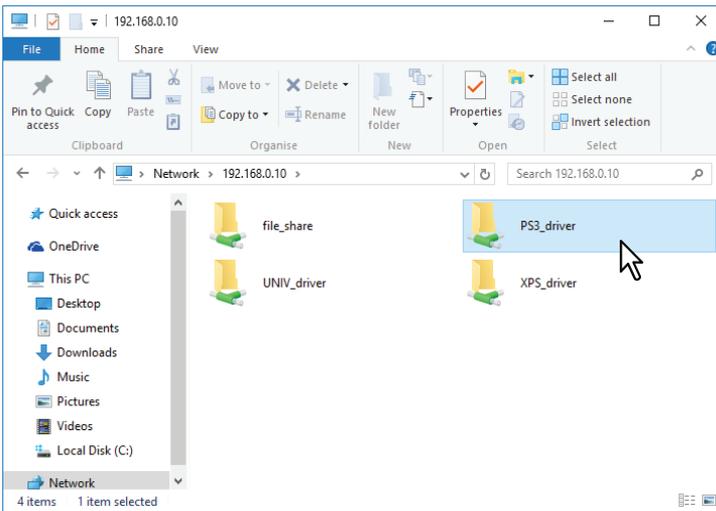
Perform installation corresponding to your Windows computer.

### Notes

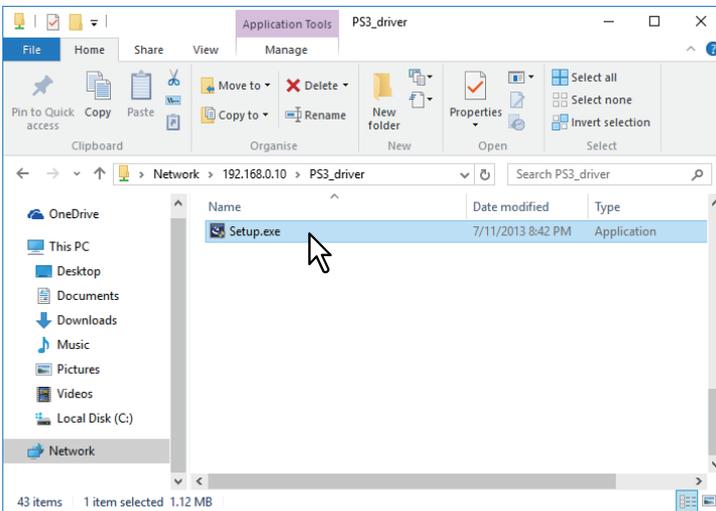
- The following is necessary to use this option:
  - The hard disk is installed in the equipment.
  - The SMB protocol is enabled, and the print share function is not restricted.  
For details, ask your administrator.
- To perform installation, you must log onto Windows with the “Administrator” account.

### 1 Use the Explorer to open the equipment’s shared folder (MFP Local).

### 2 Open the folder containing the preferred printer driver.



### 3 Double-click “Setup.exe”.

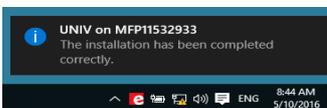


The installation begins, and the TCP/IP (IPv4) port is created automatically.

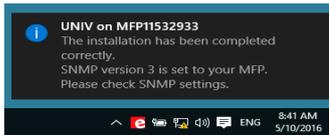
### 4 The installation is completed.

The result of the installation is displayed on the task bar.

- The printer driver has been installed normally (when SNMP V1 and V2 are configured for your TOSHIBA MFP).



- 
- The printer driver has been installed normally (when SNMP V3 is configured for your TOSHIBA MFP).



For instructions on how to check the SNMP settings, refer to “[SNMP Settings]” in the following section:

 P.26 “Procedure for Recommended Installation”

- When the equipment is connected in an IPv4 network, the installation is now complete.  
When the equipment is connected in an IPv6 network, configure the printer port manually referring to the procedures from step 10 in the following section:  
 P.41 “If your TOSHIBA MFP is not found”

## Other Installations

The following printing environments cannot be configured by installation using Software Installer or the individual installers contained in the Install Disc (except USB printing in Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2012). When you want to configure the following printing environments, see the following pages for each procedure.

- 📖 P.57 “Raw TCP/LPR printing (“Add Printer” installation from file)”
- 📖 P.63 “USB printing”
- 📖 P.68 “IPP printing”
- 📖 P.73 “Novell iPrint”
- 📖 P.74 “Web Service Print”

### ■ Raw TCP/LPR printing (“Add Printer” installation from file)

This section describes how to set up the printer drivers for Raw TCP/LPR printing by using Add Printer Wizard.

#### Tips

Before installing the printer driver, check with your system administrator to make sure of the following:

- This equipment is connected to the network and turned on.
- The TCP/IP setting is correct on this equipment and your computer.

#### Note

To perform installation, you must log onto Windows with the “Administrator” account.

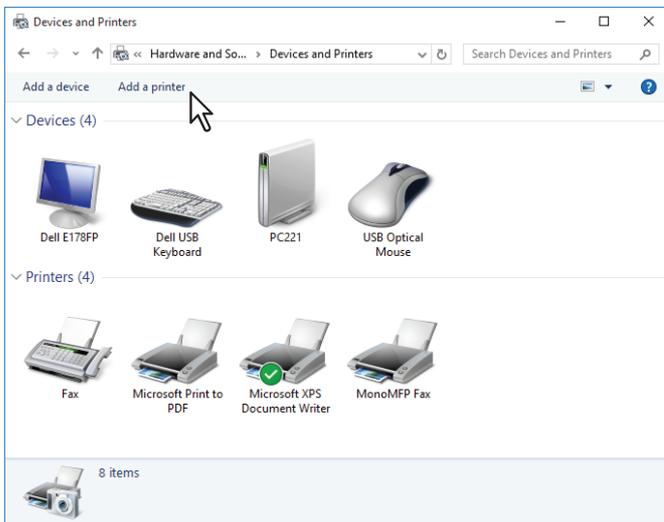
### 1 Open the printers folder.

Right-click [Start], then click [Control Panel] > [View devices and printers].

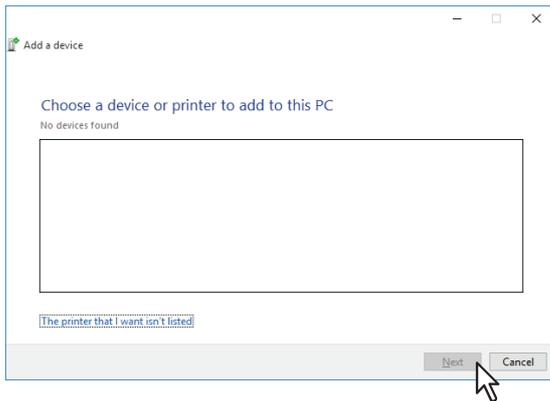
#### Tips

- For Windows 8.1 / Windows Server 2012, right-click in the lower left of the screen, then click [Control Panel] > [Devices and Printers].
- For Windows 7, click [Start] > [Devices and Printers].
- For Windows Vista / Windows Server 2008, click [Start] > [Control Panel] > [Hardware and Sound] > [Printers].

### 2 Click [Add a printer].

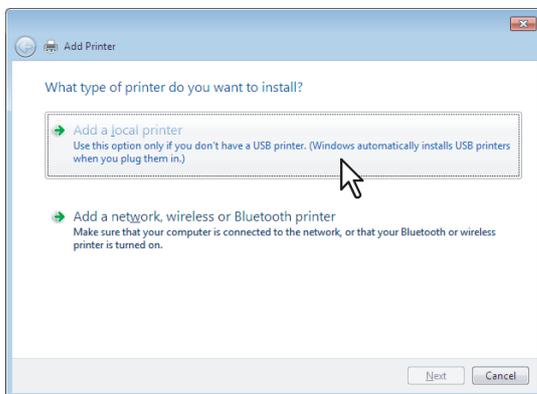


### 3 Click [Next].

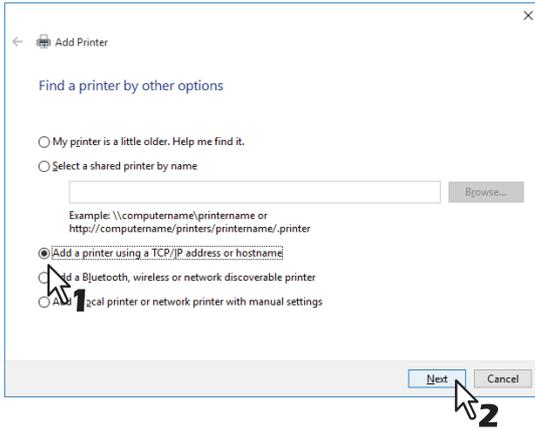


#### Tip

When you are using Windows Vista / Windows 7 / Windows 8.1 / Windows Server 2008 / Windows Server 2012, the following screen is displayed. Select [Add a local printer].

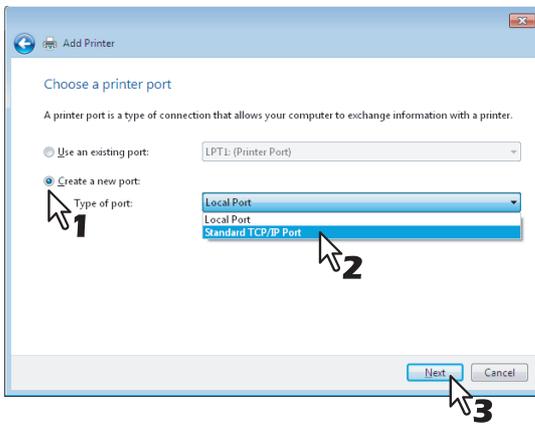


#### 4 Select [Add a printer using a TCP/IP address or hostname], and click [Next].

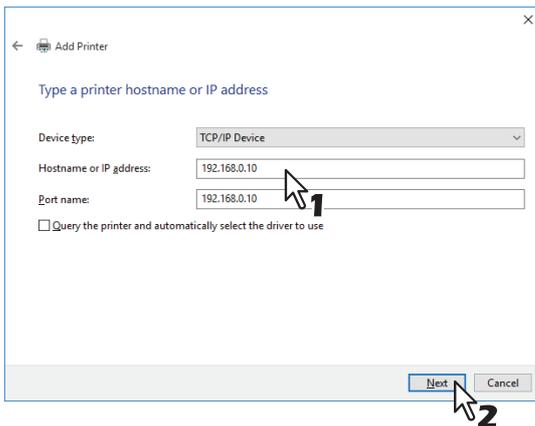


#### Tip

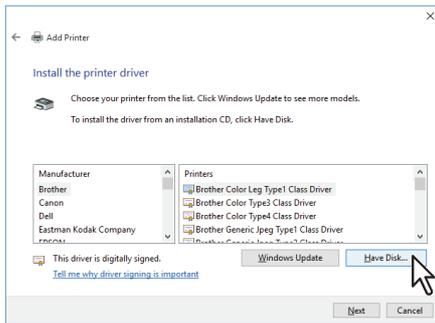
When you are using Windows Vista / Windows 7 / Windows 8.1 / Windows Server 2008 / Windows Server 2012, the following screen is displayed. Select [Create a new port], and select [Standard TCP/IP Port]. Then click [Next].



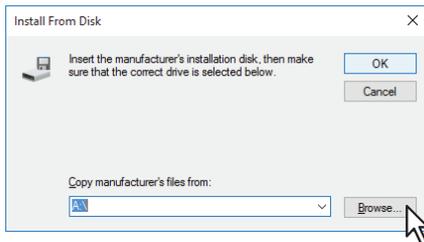
#### 5 Enter the appropriate Hostname or IP address, and click [Next].



## 6 Click [Have Disk].



## 7 Click [Browse].



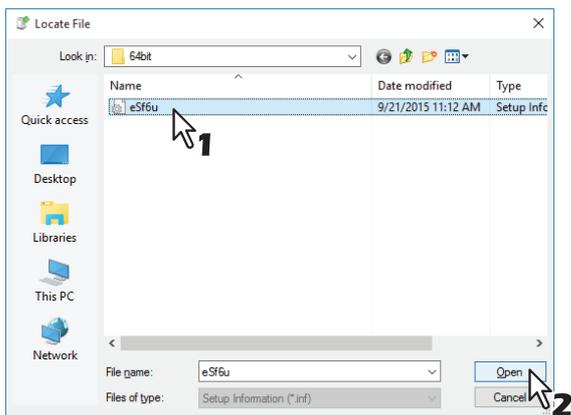
The [Locate File] dialog box appears.

## 8 Insert the Install Disc into the disc driver of the computer.

### Tip

When you insert the Install Disc into the disc drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

## 9 Locate the directory where the preferred printer driver is saved, select the .inf file, and then click [Open].



### Tips

When installing the printer driver using the Install Disc, select the following folder:

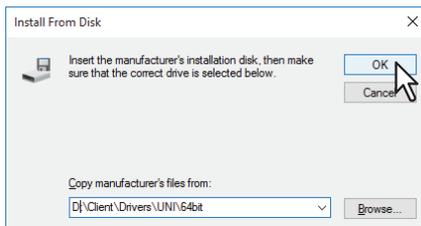
#### For the Windows computer 32-bit edition

- Universal Printer 2 driver  
[Install Disc]:\Client\Drivers\UNI\32bit
- Universal PS3 printer driver  
[Install Disc]:\Client\Drivers\PS\32bit
- Universal XPS printer driver  
[Install Disc]:\Client\Drivers\XPS\32bit

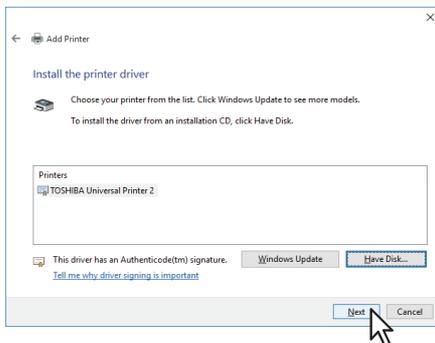
#### For the Windows computer 64-bit edition

- Universal Printer 2 driver  
[Install Disc]:\Client\Drivers\UNI\64bit
- Universal PS3 printer driver  
[Install Disc]:\Client\Drivers\PS\64bit
- Universal XPS printer driver  
[Install Disc]:\Client\Drivers\XPS\64bit

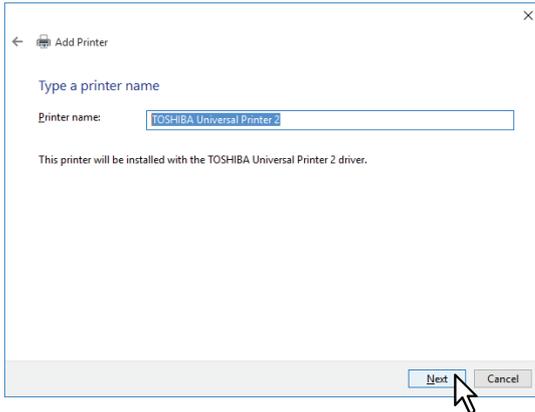
## 10 Confirm the file path and click [OK].



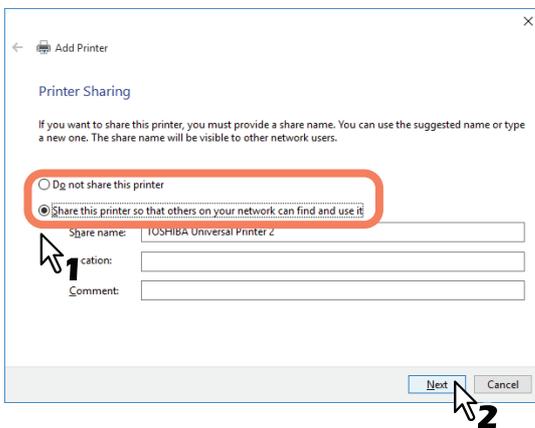
## 11 Confirm the correct driver has been selected and click [Next].



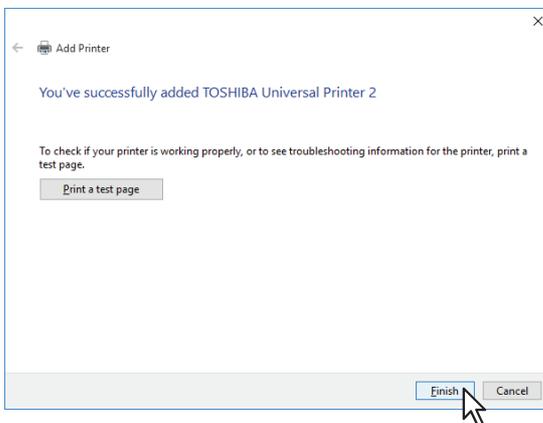
## 12 Confirm or change the Printer name and click [Next].



## 13 Select whether or not to share the printer to other network users, and click [Next].



## 14 Click [Finish].



The printer driver is installed.

## ■ USB printing

This section describes how to set up the printer drivers when this equipment is connected with a USB cable on Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012. The procedure to install the printer driver for USB printing differs depending on the version of Windows used.

📖 P.63 “Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2012”

📖 P.66 “Windows Vista / Windows Server 2008”

### Notes

- Use a USB2.0 Hi-Speed certified cable.
- Connect the equipment with a PC directly by the USB cable. When it is connected with a PC via a USB hub, the equipment may not be recognized.
- If a PCLX error occurs, open [Printer properties] of TOSHIBA Universal Printer2 in [Devices and Printers] and select the [Start printing after last page is spooled] check box in the [Advanced] tab.

## ❑ Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2012

You can install a printer driver for USB printing in Windows 7 / Windows 8.1 / Windows Server 2012 by using Software Installer contained in the Install Disc.

### Note

To perform installation, you must log onto Windows with the “Administrator” account.

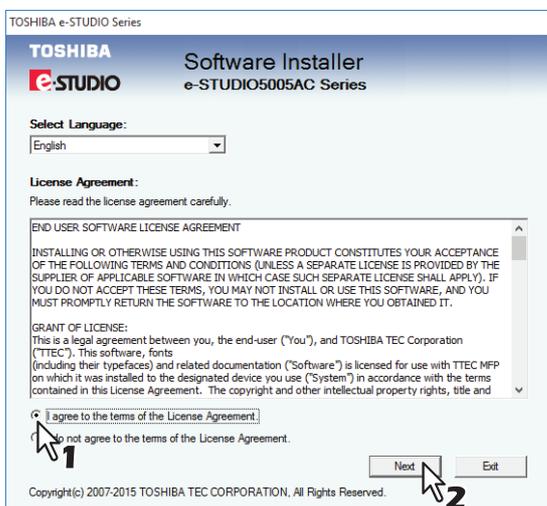
### 1 Power on this equipment and your computer.

### 2 Connect the USB cable to this equipment and your computer.

### 3 Insert the Install Disc into the disc drive.

If Software Installer does not automatically start, use the Explorer to open the “e-STUDIO” folder in the Install Disc and double-click “Setup.exe”.

### 4 Select [I agree to the terms of the License Agreement.] and click [Next].



To change the display language, select a desired language from the [Select Language] box.

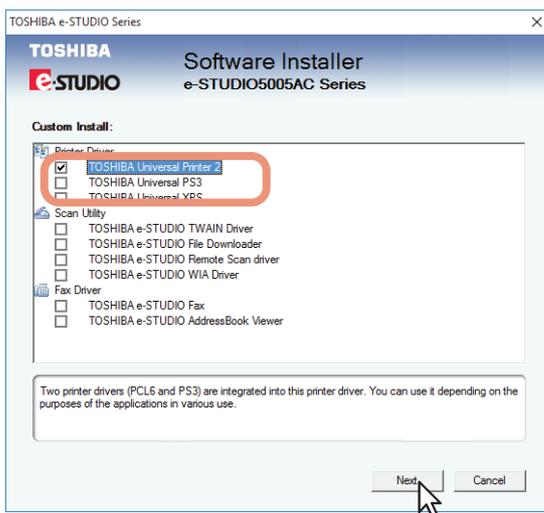
## 5 Click [Printer Driver] or [Custom Install].



**Printer Driver** — This option allows you to install only the Universal Printer 2 driver. When you select it, proceed to step 7.

**Custom Install** — This option allows you to select the printer drivers and utilities which you want to install. When you select it, proceed to step 6.

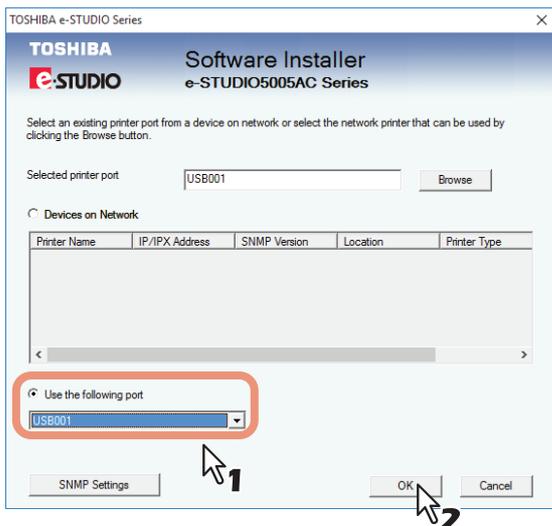
## 6 Select the software items which you want to install, and then click [Next].



## 7 Confirm the list of the software to install and click [Install].

## 8 Since the result message of the detection is displayed, click [Continue].

**9 Select [Use the following port] and “USBxxx” (xxx are numbers). Then click [OK].**



**10 Confirm that the installation is completed, and then click [Finish].**

**Tip**

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

**11 Click [Exit].**

When a message appears asking whether to finish the installer, click [Yes].

---

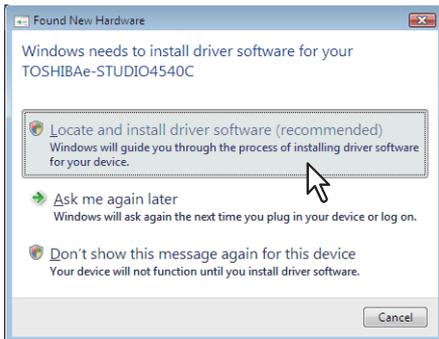
## ❑ Windows Vista / Windows Server 2008

You can install a printer driver for USB printing in Windows Vista / Windows Server 2008 by Plug and Play.

### Note

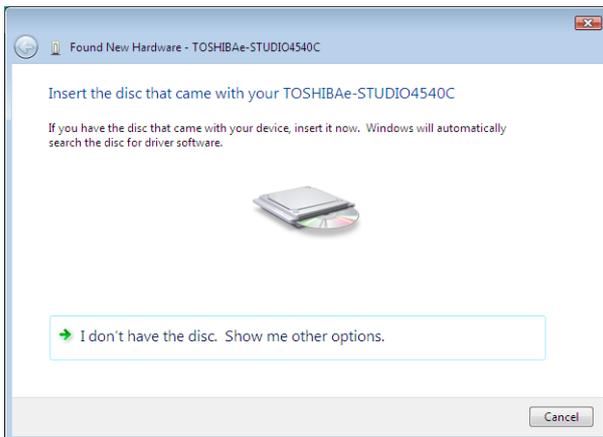
To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.

- 1 Power on this equipment and your computer.**
- 2 Connect the USB cable to this equipment and your computer.**  
The [Found New Hardware] dialog box appears.
- 3 Click [Locate and install driver software (recommended)].**



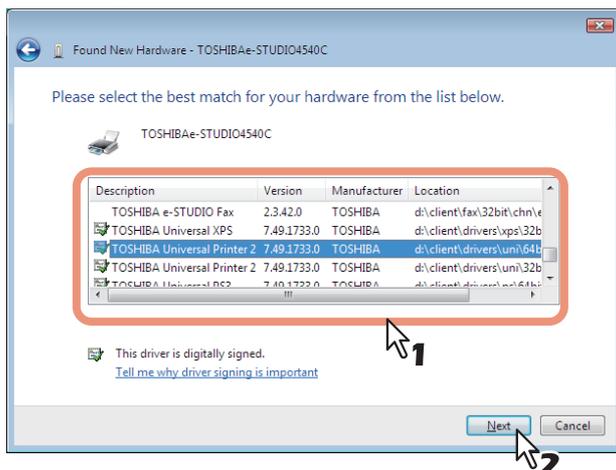
When the confirmation dialog box for online search is displayed, click [Don't search online].

- 4 Insert the Install Disc into the disc drive.**



When you insert the Install Disc into the disc drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

## 5 Select a printer driver to be installed and click [Next].



### Notes

All available drivers are listed. If a wrong driver is installed, printing may not be performed properly.

**When using the Windows computer 32-bit edition, select the following folder:**

- Universal Printer 2 driver  
[Install Disc]:\Client\Drivers\UNI\32bit
- Universal PS3 printer driver  
[Install Disc]:\Client\Drivers\PS\32bit
- Universal XPS printer driver  
[Install Disc]:\Client\Drivers\XPS\32bit

**When using the Windows computer 64-bit edition, select the following folder:**

- Universal Printer 2 driver  
[Install Disc]:\Client\Drivers\UNI\64bit
- Universal PS3 printer driver  
[Install Disc]:\Client\Drivers\PS\64bit
- Universal XPS printer driver  
[Install Disc]:\Client\Drivers\XPS\64bit

## 6 Click [Close].

## ■ IPP printing

This section describes how to set up the printer drivers for IPP printing which is available for Internet connection. To set up the printer drivers for IPP printing, install the printer drivers by Add Printer Wizard.

### Tips

Before installing the printer driver for IPP printing, check with your system administrator to make sure of the following:

- This equipment is connected to the network and turned on.
- The TCP/IP setting is correct on this equipment and your computer.

You can install a printer driver for IPP printing using the Add Printer Wizard. Perform installation corresponding to your Windows computer.

### Notes

- To perform installation, you must log onto Windows with the “Administrator” account.
- The certificate must be installed on both MFP and Windows Vista to perform IPP SSL printing from Windows Vista. For instructions on how to install the certificate, refer to **TopAccess Guide**.

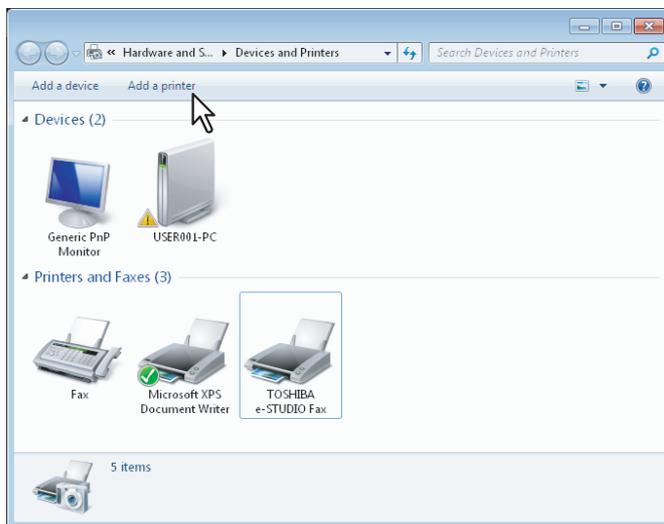
## 1 Open the printers folder.

Right-click [Start], then click [Control Panel] > [View devices and printers].

### Tips

- For Windows 8.1 / Windows Server 2012, right-click in the lower left of the screen, then click [Control Panel] > [Devices and Printers].
- For Windows 7, click [Start] > [Devices and Printers].
- For Windows Vista / Windows Server 2008, click [Start] > [Control Panel] > [Hardware and Sound] > [Printers].

## 2 Click [Add a printer].



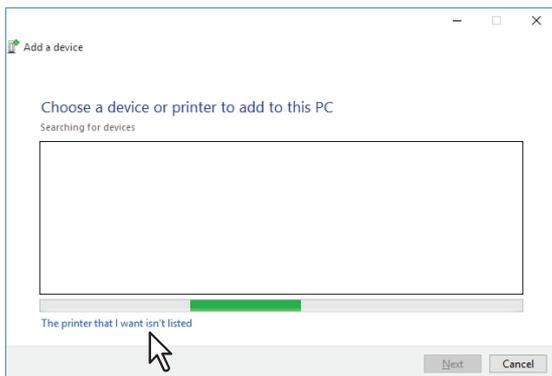
The [Add Printer] dialog box appears.

## 3 Select [Add a network, wireless or Bluetooth printer].

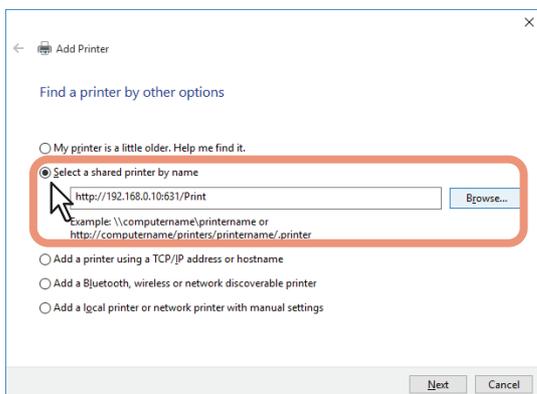
### Tip

Depending on the version of Windows used, this screen does not appear.

## 4 Select [The printer that I want isn't listed].



## 5 Select the [Select a shared printer by name] check box, enter “http://[IP address]:631/Print” in the edit box in [Find by printer name or TCP/IP address] screen.



- Enter the IP address of this equipment instead of [IP address].  
Example: IP address = 192.168.1.2  
http://192.168.1.2:631/Print
- Enter the IPv6 address in the [Printer Name or IP Address] box when the MFP is connected in an IPv6 network.
- If your network uses a DNS or WINS server, enter the printer name of this equipment provided from DNS or WINS instead of [IP address].  
Example: Print Server Name = Mfp-05212774  
http://Mfp-05212774:631/Print
- When you connect from the Internet, enter the FQDN of this equipment provided from DNS instead of [IP address].  
Example: URL = mfp\_05212774.toshibatec.com  
http://mfp\_05212774.toshibatec.com:631/Print

### Note

“P” for “Print” in the IPP URL must be capitalized. The IPP port can be created by entering “print” (non-capitalized) in the IPP URL, but the print job cannot be sent to the equipment. In that case, delete the IPP port and then create the IPP port correctly again.

### Tips

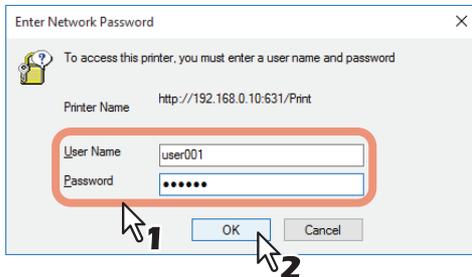
- If the IPP Port80 Enabled option is enabled on this equipment, you can exclude the port number from the URL. (i.e. “http://192.168.1.2/Print”)
- If the Enable SSL option for IPP Print is enabled, you must enter “https://[IP address]:[SSL port number]/Print” in the edit box. (i.e. “https://192.168.1.2:443/Print”)

## 6 Click [Next].

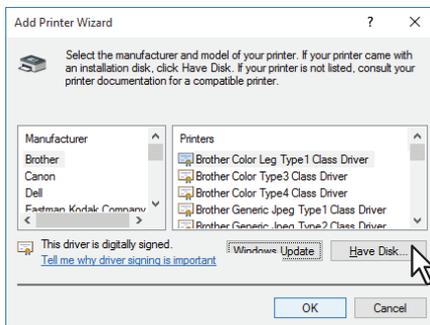
A dialog box appears to confirm the connection with the specified MFP. Wait until completion.

### Note

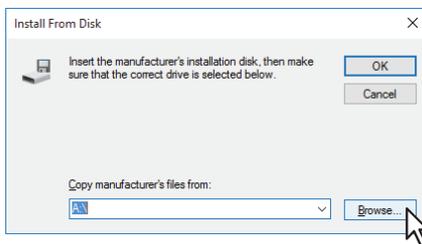
When the Authentication setting for IPP Print is enabled, the dialog box to enter a user name and password appears. If this dialog box appears, enter the user name and password and click [OK]. For the user name and password, ask your administrator.



## 7 Click [Have Disk].



## 8 Click [Browse].

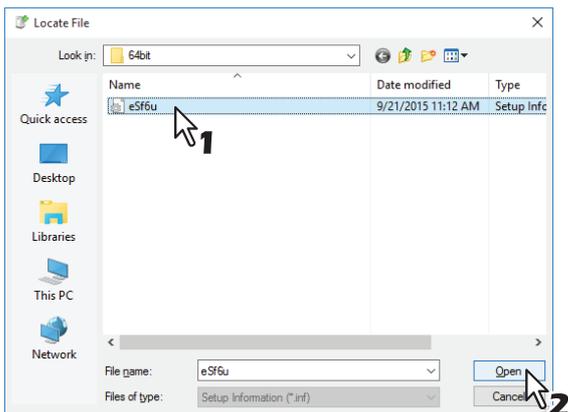


The [Locate File] dialog box appears.

## 9 Insert the Install Disc into the disc drive.

When you insert the Install Disc into the disc drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

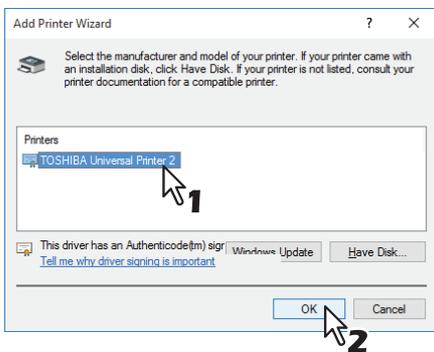
**10** Locate the directory where the printer driver is located, select the .inf file, and then click [Open].



- When using the Windows computer 32-bit edition, select the following folder:
  - Universal Printer 2 driver  
[Install Disc]:\Client\Drivers\UNI\32bit
  - Universal PS3 printer driver  
[Install Disc]:\Client\Drivers\PS\32bit
- When using the Windows computer 64-bit edition, select the following folder:
  - Universal Printer 2 driver  
[Install Disc]:\Client\Drivers\UNI\64bit
  - Universal PS3 printer driver  
[Install Disc]:\Client\Drivers\PS\64bit

**11** Click [OK].

**12** Select the printer driver and click [OK].



When the [Windows Security] dialog box is displayed, click [Install this driver software anyway] to continue the installation.

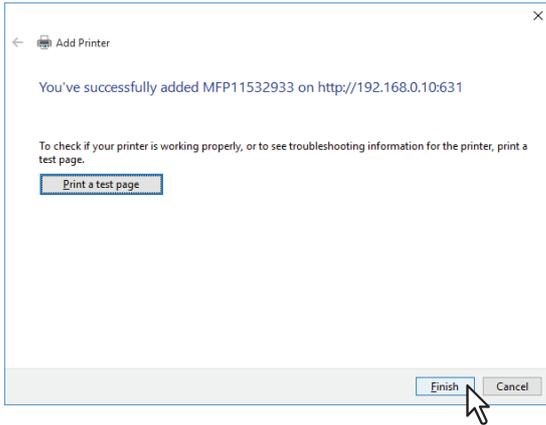
**13** Click [Next].

**Tip**

If the Printer Sharing dialog box is displayed, select whether to share the equipment with other users on your network and then click [Next].

- Change the share name or enter the location and comments as required.

## 14 Click [Finish].



The printer driver is installed.

## ■ Novell iPrint

This section describes how to install the printer drivers for Novell iPrint.

To install the printer driver for Novell iPrint on the client computer, download and install the Novell iPrint Client and printer driver from the NetWare print server.

### Notes

- To set up the Novell iPrint in the client computers, the NetWare print server must be configured for iPrint first.
- Before installing the printer driver for Novell iPrint, make sure that your computer provides the appropriate operating environment for Novell iPrint.  
For more information, see the documentation for the Novell iPrint that is provided by Novell, Inc.
- The certificate is required to login during the Novell iPrint installation when the SSL security is enabled on the NetWare print server.

### 1 Start your web browser and enter the following URL in the address bar.

`http://<IP address or DNS for NDPS Manager>/ipp`

### Notes

- If you do not know the IP address or DNS for NDPS Manager, ask your network administrator.
- If the IP address or DNS is secured using SSL, enter the URL address as following:  
`https://<IP address or DNS for NDPS Manager>/ipps`

### 2 If the iPrint Client is not installed on your computer, you are prompted to install it.

### 3 Click the printer that you want to install from the list of available printers that is displayed in the iPrint web page.

The selected printer driver is installed on your computer.

## ■ Web Service Print

This equipment supports the WSD (Web Services on Devices) protocol installed in Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012. The following describes how to install a printer driver using the WSD protocol.

📖 P.74 “Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2012”

📖 P.77 “Windows Vista / Windows Server 2008”

## □ Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2012

Follow the steps below to install a printer driver on Windows 7, Windows 8.1, Windows 10, or Windows Server 2012.

### Notes

- To perform installation, you must log onto Windows with the “Administrator” account.
- To begin the installation, you must first install the printer driver to your computer.  
For instructions on how to install it to your computer, see the following page:  
📖 P.36 “Installing the Printer Drivers”

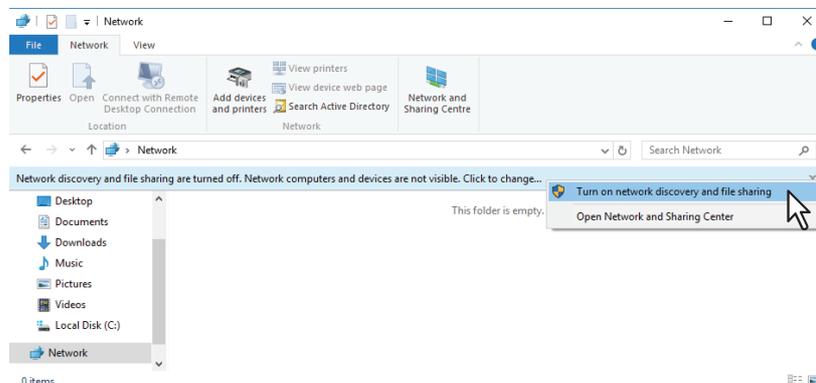
### 1 Open the [Network] screen.

Click [Start] > [File Explorer] > [Network].

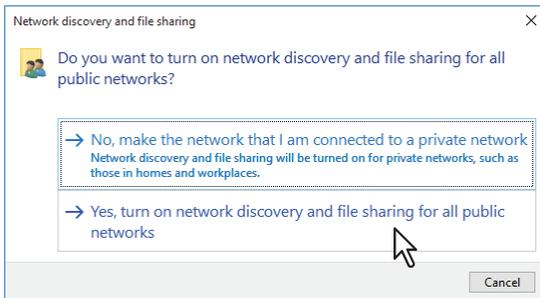
#### Tips

- For Windows 8.1 / Windows Server 2012, click the start charm and click [All apps] > [Computer] > [Network].
- For Windows 7, click [Start] > [Computer] > [Network].
- Go to step 4 if the Network discovery is enabled.
- Go to the next step if the Network discovery is disabled.

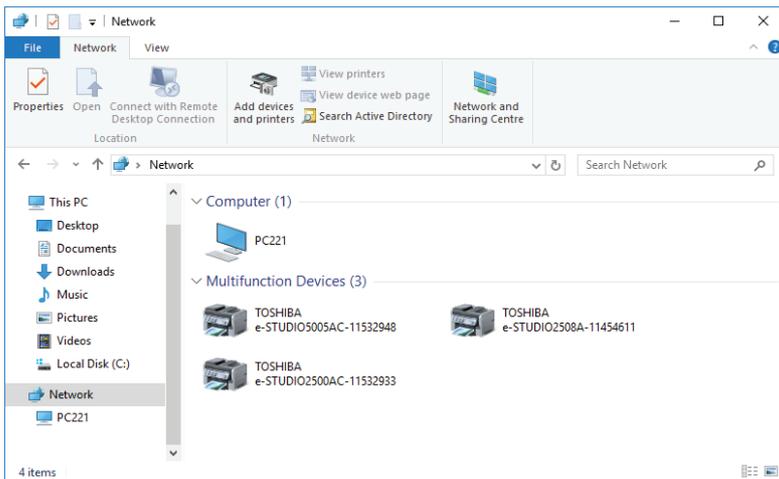
### 2 Click [Network discovery is turned off. Network computers and devices are not visible. Click to change]. Then select [Turn on network discovery and file sharing].



### 3 Click [Yes, turn on network discovery and file sharing for all public networks].



Connected computers and icons of the multifunction devices are displayed in the [Network] screen.



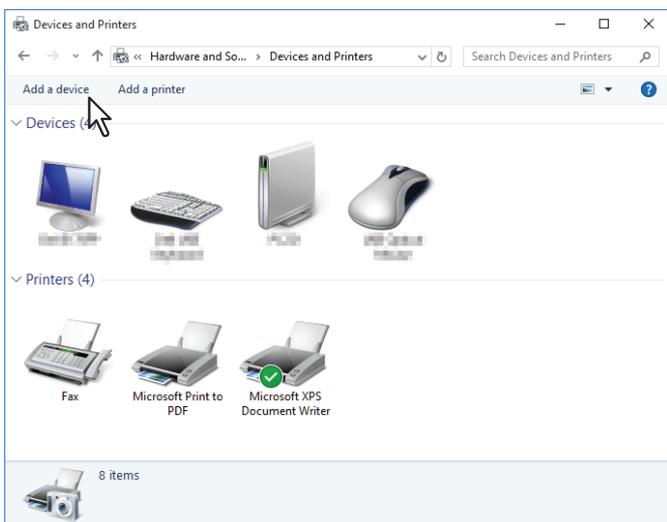
### 4 Open the [Devices and Printers] folder.

Right-click [Start], then click [Control Panel] > [View devices and printers].

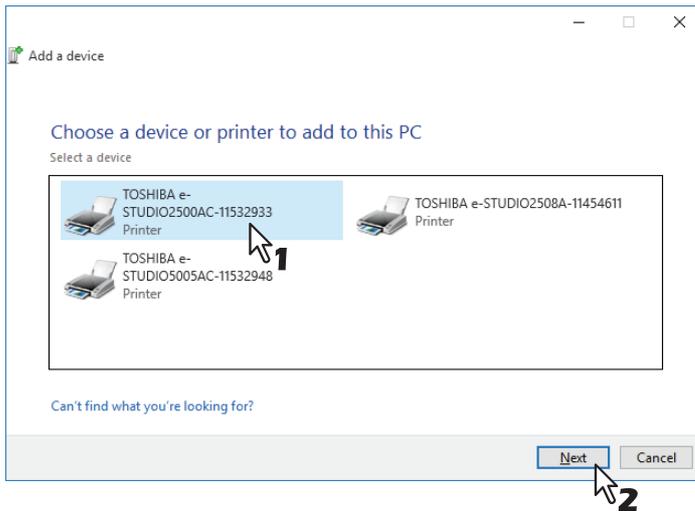
#### Tips

- For Windows 8.1 / Windows Server 2012, right-click in the lower left of the screen, then click [Control Panel] > [Devices and Printers].
- For Windows 7, click [Start] > [Devices and Printers].

### 5 Click [Add a device].



## 6 Select the icon of the multifunction device of the equipment and click [Next].



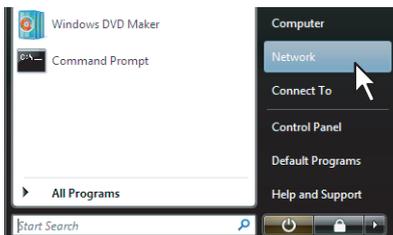
The installation begins.

## 7 The installation is completed.

## ❑ Windows Vista / Windows Server 2008

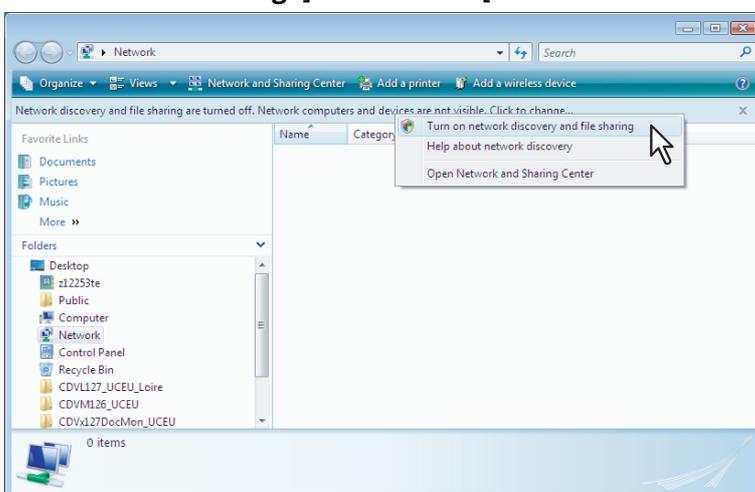
Follow the steps below to install a printer driver on Windows Vista / Windows Server 2008.

### 1 Click the start button and click [Network] to open the [Network] screen.

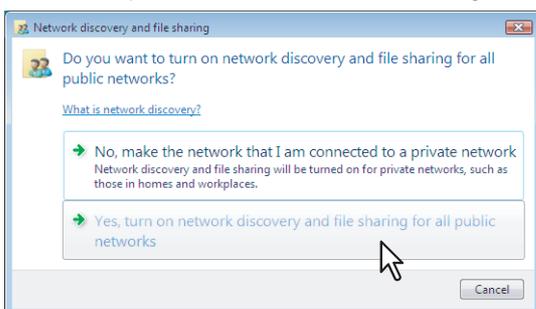


- Go to step 4 if the Network discovery is enabled.
- Go to the next step if the Network discovery is disabled.

### 2 Click [Network discovery and file sharing is turned off. Network computers and devices are not visible. Click to change]. Then select [Turn on network discovery and file sharing].



### 3 Click [Yes, turn on network discovery and file sharing for all public networks].

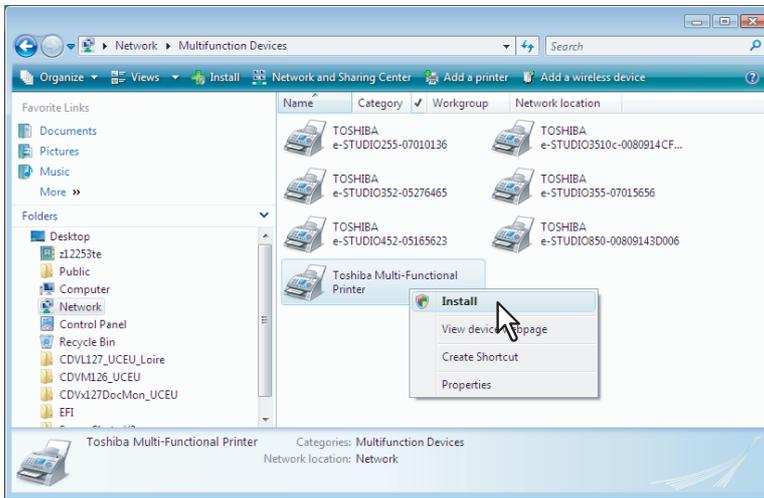


Connected computers and icons of the multifunction devices are displayed in the [Network] screen.

**4 Select the icon of the multifunction device of the equipment and right-click to make the menu appear, then click [Install].**

Tip

You can display only the multifunction devices by checking [Multifunction Devices] on the [Category] box.



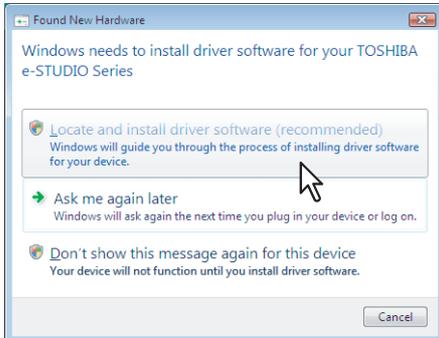
[PnP Device Association] is displayed on the task bar.

**5 Click [PnP Device Association] on the task bar.**



The [Found New Hardware] dialog box appears.

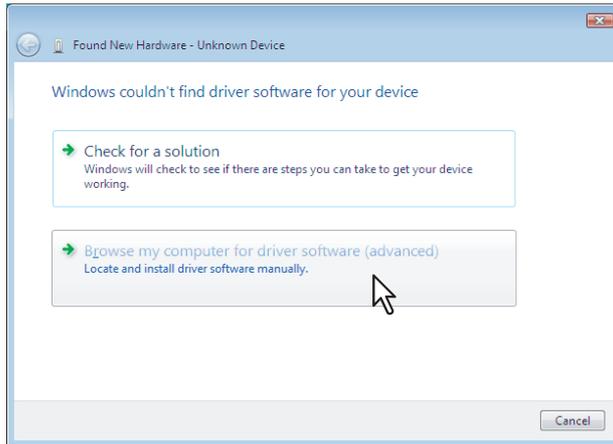
**6 Click [Locate and install driver software (recommended)].**



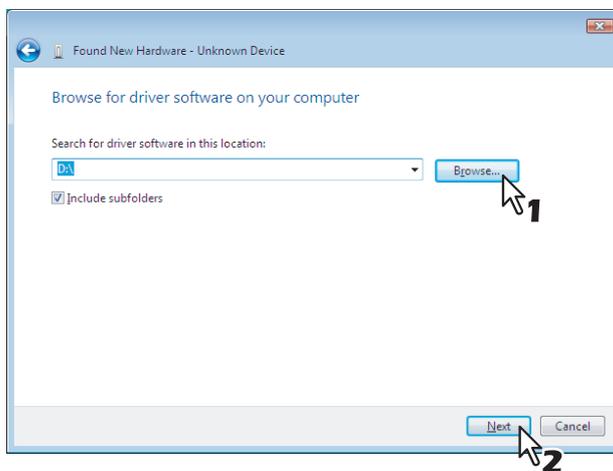
Tip

When the confirmation dialog box for online search is displayed, click [Don't search online].

## 7 Click [Browse my computer for driver software (advanced)].

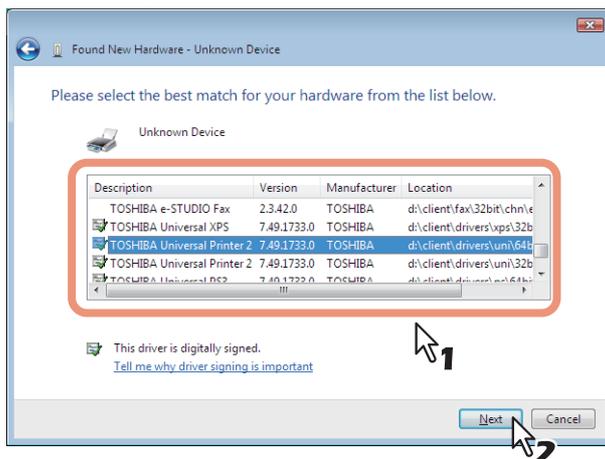


## 8 Set the Install Disc to the disc drive, click [Browse] to specify the position of the disc drive and then click [Next].



When you insert the Install Disc into the disc drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

## 9 Select the printer driver to be installed, and then click [Next].



---

**Note**

When the [Windows Security] dialog box is displayed, click [Install this driver software anyway] to continue the installation.

**10** Click [Close] to complete the installation.

## Copying the PPD File for Windows

---

The Install Disc contains a printer description file for popular Windows applications. For applications not allowing the automatic installation of PPD files, copy the PPD file to a proper directory in order to enable printer-specific settings in the [Print] dialog box or the [Page Setup] dialog box.

### 1 Insert the Install Disc into the disc drive.

When you insert the Install Disc into the disc drive, Software Installer may launch automatically. In this case, click [Exit] to close it.

### 2 Open the following folder that contains the PPD file for Windows.

- [Install Disc]:\Client\Drivers\WinPPD\2-sided\_default  
This PPD file enables to set 2-sided printing by default.
- [Install Disc]:\Client\Drivers\WinPPD\normal  
This PPD file enables to set 1-sided printing by default.

#### Tips

- When this equipment is used in Europe or North America, use the PPD file enabling 2-sided printing by default.
- Choose either "TSES6D\_1.PPD" or "TSES8O\_1.PPD" depending on the model to be used.  
Color MFP: Use the "TSES6D\_1.PPD" file.  
Black and White MFP: Use the "TSES8O\_1.PPD" file.

### 3 Copy the PPD file (\*.ppd) to the appropriate location.

#### Tip

For a proper directory to which the PPD file is to be copied, refer to the manual of the application.

# Uninstalling Printer Drivers

The following instructions describe how to uninstall a printer driver.

P.82 “Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2012”

P.84 “Windows Vista / Windows Server 2008”

## ■ Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2012

Follow the steps below to uninstall a printer driver from Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2012.

### Note

To perform uninstallation, you must log onto Windows with the “Administrator” account.

### 1 Open the [Devices and Printers] folder.

Right-click [Start], then click [Control Panel] > [View devices and printers].

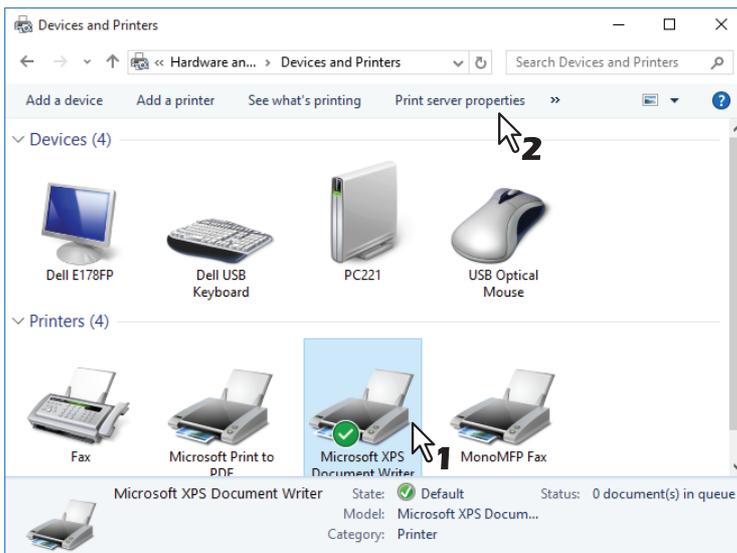
#### Tips

- For Windows 8.1 / Windows Server 2012, right-click in the lower left of the screen, then click [Control Panel] > [Devices and Printers].
- For Windows 7, click [Start] > [Devices and Printers].

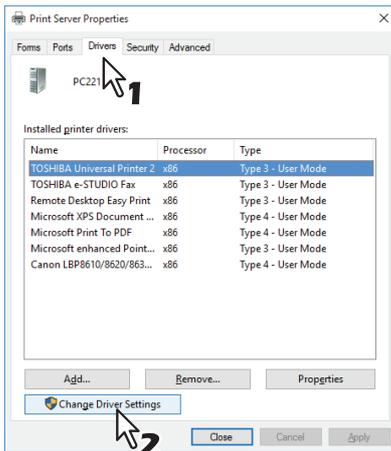
### 2 Right click on the printer to be deleted and select [Remove device] from the menu displayed.

When the confirmation dialog box for deletion is displayed, click [Yes].

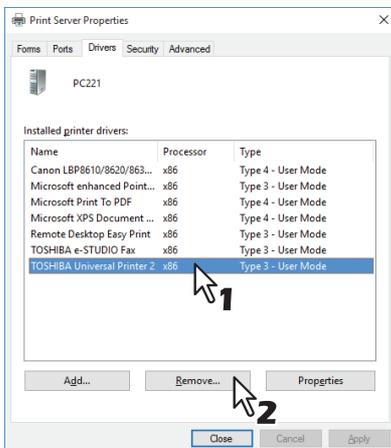
### 3 Select one of the remaining printer icons and click [Print server properties].



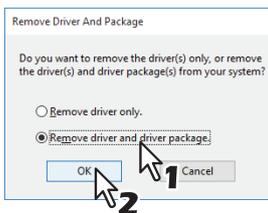
#### 4 Display the [Drivers] tab and click [Change Driver Settings].



#### 5 Select the printer driver to be deleted and click [Remove].



#### 6 Select [Remove driver and driver package] and click [OK].



#### 7 Click [Yes].

#### 8 Click [Delete].

#### 9 Click [OK].

#### 10 Close the [Print Server Properties] dialog box.

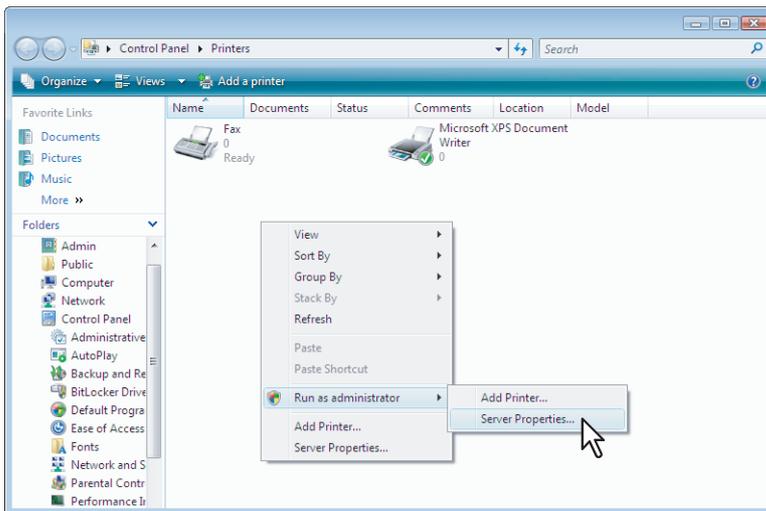
## ■ Windows Vista / Windows Server 2008

Follow the steps below to uninstall a printer driver from Windows Vista / Windows Server 2008.

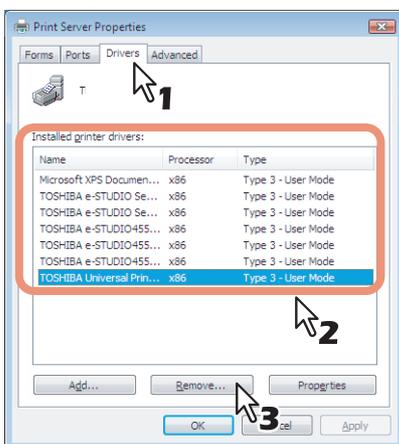
### Note

To perform uninstallation, you must log onto Windows with the “Administrator” account.

- 1 Click [Start], select [Control Panel] and click [Printer] under [Hardware and Sound] to open the [Printers] folder.**
- 2 Right click on the printer to be deleted and select [Delete] from the menu displayed.**  
When the confirmation dialog box for deletion is displayed, click [Yes].
- 3 Right click in the blank area in the [Printers] window and click [Run as administrator] and then [Server Properties] in the menu displayed.**



- 4 Display the [Drivers] tab and select the printer drivers to be deleted. Then click [Remove].**



- 5 Select [Remove driver and driver package] and click [OK].**



- 6 Click [Yes].**

- 
- 7** Click [Delete].
  - 8** Click [OK].
  - 9** Close the [Print Server Properties] dialog box.



# 4

## INSTALLING PRINTER DRIVERS FOR MAC OS

This chapter provides instructions on how to install client software for Mac OS.

<b>About the Installation .....</b>	<b>88</b>
About client software for Mac OS.....	88
System requirements .....	88
<b>Installing the Printer on Mac OS.....</b>	<b>89</b>
Installing the Mac OS PPD file .....	89
Configuring the printer .....	92
<b>Uninstalling the Mac OS PPD File .....</b>	<b>99</b>

## About the Installation

---

Refer to following instructions for configuring printing systems on Mac computers.

 P.88 “About client software for Mac OS”

 P.88 “System requirements”

 P.89 “Installing the Printer on Mac OS”

### ■ About client software for Mac OS

#### **PostScript Printer Description file**

The Mac OS PPD (PostScript Printer Description) file contains information about controller-specific features. The PPD files and plug-ins are provided for Mac OS 10.6.8 or later.

### ■ System requirements

To install the printer drivers on a Mac computer, the following environment is required.

Display resolution: 1024 x 768 dots or more

OS: Mac OS X 10.6.8 or later

Protocol: TCP/IP, Bonjour

# Installing the Printer on Mac OS

Install and configure the printer by the following pages:

📖 P.89 “Installing the Mac OS PPD file”

📖 P.92 “Configuring the printer”

## ■ Installing the Mac OS PPD file

**1** Insert the Install Disc into the disc drive and open “MacPPD/OSX10\_6-” folder.

**2** Open “2-sided\_default” or “normal” folder.

\* The PPD file included in the “2-sided\_default” folder enables to set 2-sided printing by default.

\* The PPD file included in the “normal” folder enables to set 1-sided printing by default.

### Tip

When this equipment is used in Europe or North America, install the PPD file enabling 2-sided printing by default.

**3** Copy the GZIP file “TOSHIBA\_xxxxxMFP.dmg.gz” to the desktop.

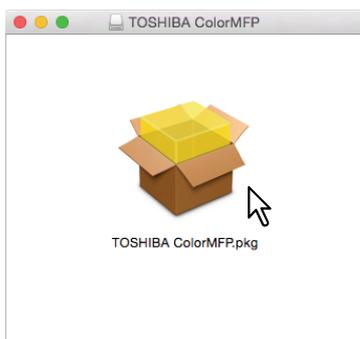
\* If “Color” is applied to the portion marked with “xxxxx” of the file name, the file is intended for the color MFPs. If “Mono” is applied to there, the file is intended for the black and white MFPs. Choose either “Color” or “Mono” depending on the model to be used.

**4** Double-click the GZIP file on the desktop.

The Disk Image file is extracted on the desktop.

**5** Double-click the Disk Image file.

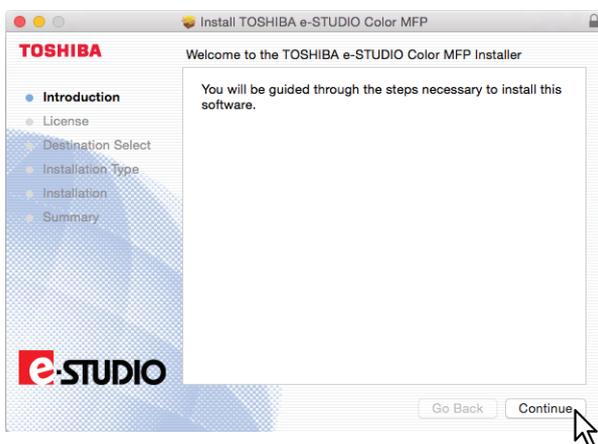
**6** Double-click the icon in the installer window.



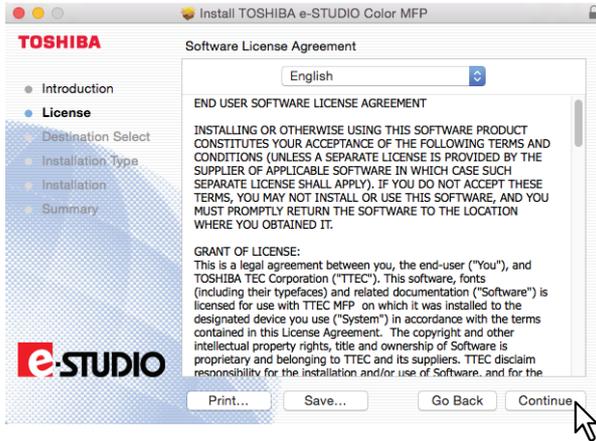
### Note

When you start up the installer, be sure that Mac OS Printer Setup Utility is not operating. If a PPD file is installed while the Mac OS Printer Setup Utility is operating, the printer may not be normally recognized.

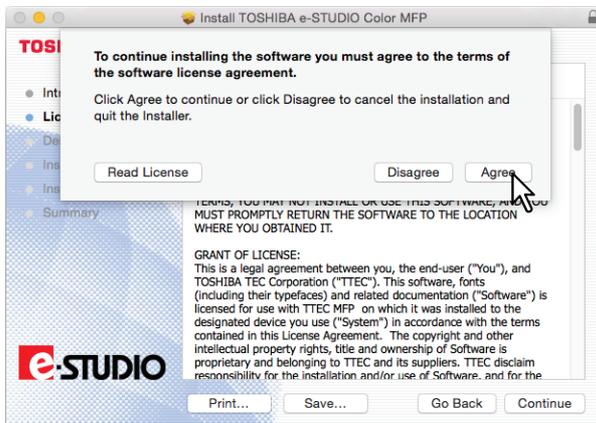
**7** Click [Continue].



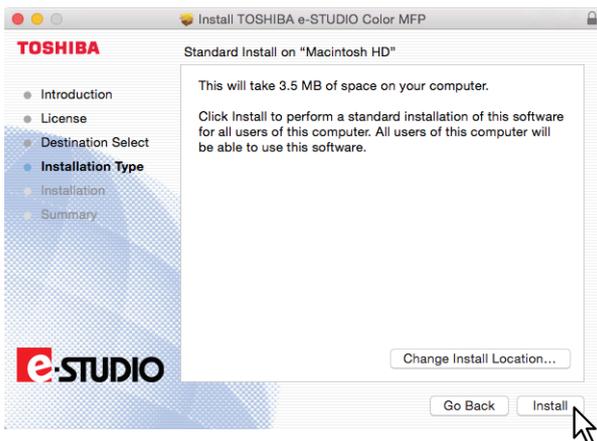
## 8 Click [Continue].



## 9 Click [Agree].

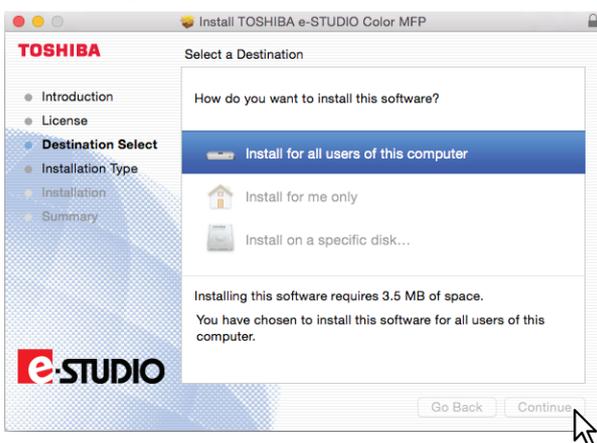


### 10 Click [Install] (or [Upgrade]).



#### Tip

The Select a Destination dialog box appears by clicking [Change Install Location]. Select the boot disk for Mac OS X and click [Continue].

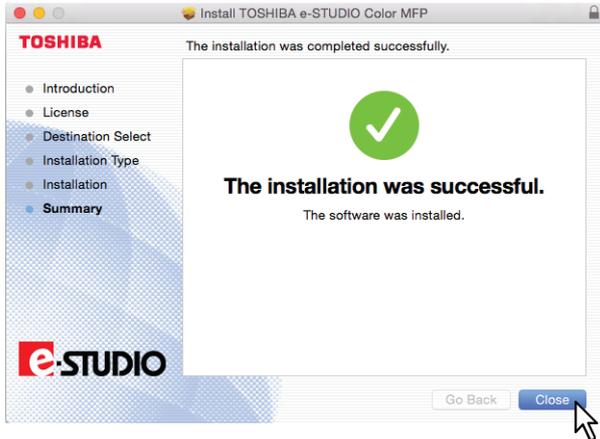


### 11 Enter the name and password, and click [Install Software].



It starts copying the PPD files for each language.

## 12 Click [Close] to close the installer window.



## 13 Continue the procedure for configuring the printer.

### ■ Configuring the printer

After you copy the PPD file to the library folder in the System Folder, you can configure the printer. The equipment supports the following Mac OS Printing Services:

- **LPR printing**  
📖 P.92 "Configuring LPR printing"
- **IPP printing**  
📖 P.94 "Configuring IPP printing"
- **Bonjour printing**  
📖 P.96 "Configuring Bonjour printing"

#### Tip

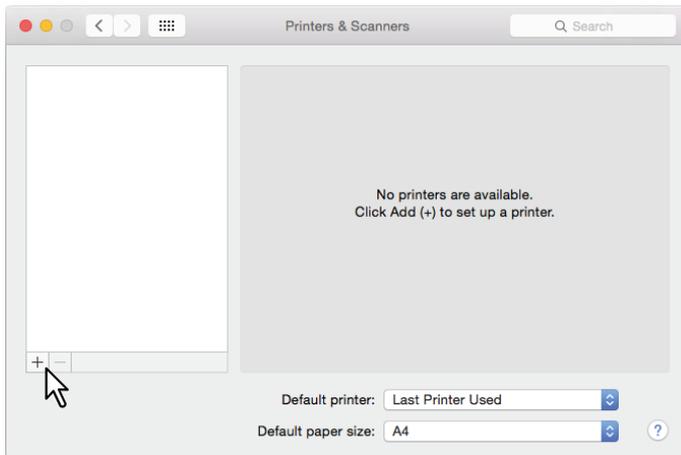
These Mac OS Printing Services are available when the equipment and your computer are connected over TCP/IP network.

### □ Configuring LPR printing

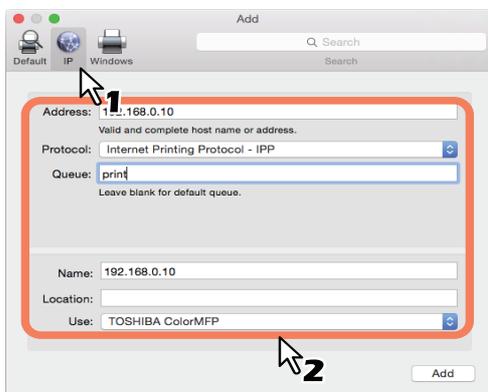
#### 1 Open System Preferences and click [Printers & Scanners].



## 2 Click [+].



## 3 Click [IP] and specify the items as described below.



**Protocol:** Line Printer Daemon - LPD

**Address:** <IP address or DNS name of this equipment>

**Queue:** print

**Name:** <Any Name>

**Location:** <Any Name>

**Use:** TOSHIBA xxxxxMFP

\* The "xxxxx" part of the file name is replaced in "Color" or "Mono" depending on the installed PPD file.

### Tips

- In the [Name] box, the name that is entered in the [Address] box is automatically displayed.
- Even when you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is not selected in the [Use] box. Therefore, select [Other] in the [Use] box, and select the PPD file (TOSHIBA\_XXXXMFP\_X7.gz) from the [/Library/Printers/PPDs/Contents/Resources] folder.

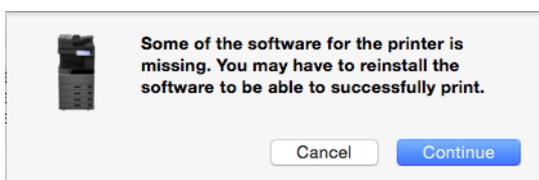
\* The "xxxxx" part of the file name is replaced in "Color" or "Mono" depending on the installed PPD file.

## 4 Click [Add].

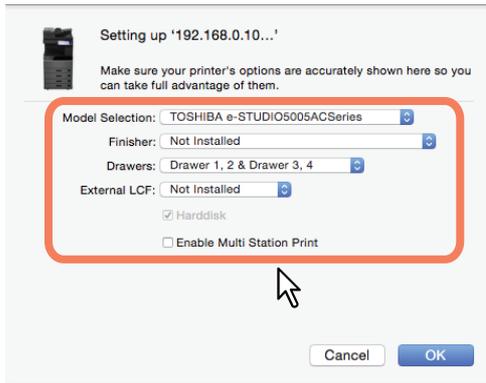
The [Installable Options] window appears.

### Tip

When the plug-ins have not been installed in your Mac OS computer, the screen below appears. Click [Continue] to continue the printer setup.



- 5 Set the following options.**  
For setting items, refer to the following section.  
 P.98 “Option setting list”



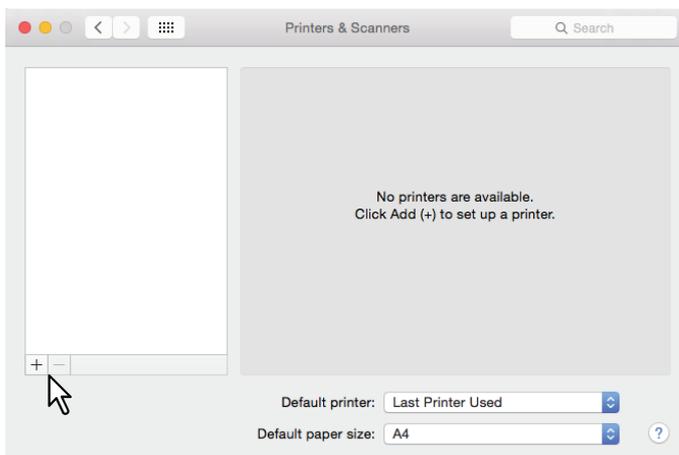
- 6 Click [OK].**  
The printer is added to the Printer List.

## Configuring IPP printing

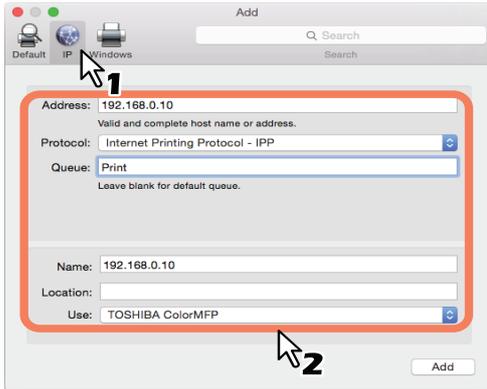
- 1 Open System Preferences and click [Printers & Scanners].**



- 2 Click [+].**



### 3 Click [IP] and specify the items as described below.



**Protocol:** Internet Printing Protocol - IPP

**Address:** <IP address or DNS name of this equipment>

**Queue:** Print

**Name:** <Any Name>

**Location:** <Any Name>

**Use:** TOSHIBA xxxxxMFP

\* The "xxxxx" part of the file name is replaced in "Color" or "Mono" depending on the installed PPD file.

#### Tips

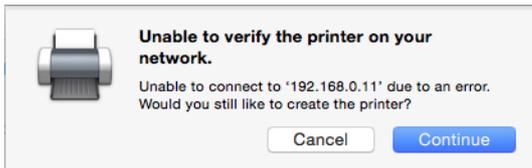
- In the [Name] box, the name that is entered in the [Address] box is automatically displayed.
- Even when you enter the IP address or DNS name of this equipment in the [Address] box, the correct PPD file is not selected in the [Use] box. Therefore, select [Other] in the [Use] box, and select the PPD file (TOSHIBA\_xxxxxMFP\_X7.gz) from the [/Library/Printers/PPDs/Contents/Resources] folder.
- \* The "xxxxx" part of the file name is replaced in "Color" or "Mono" depending on the installed PPD file.

### 4 Click [Add].

The Installable Options window appears.

#### Tip

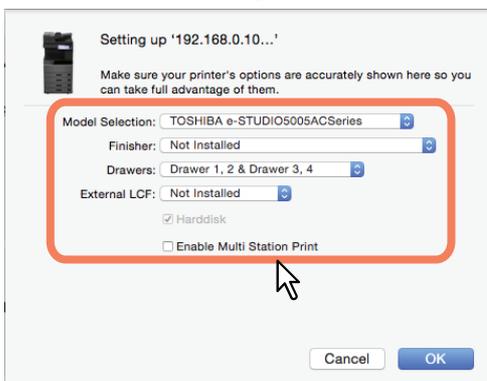
If the screen below appears, click [Continue] to continue the printer setup.



### 5 Set the following options.

For setting items, refer to the following section.

P.98 "Option setting list"



### 6 Click [OK].

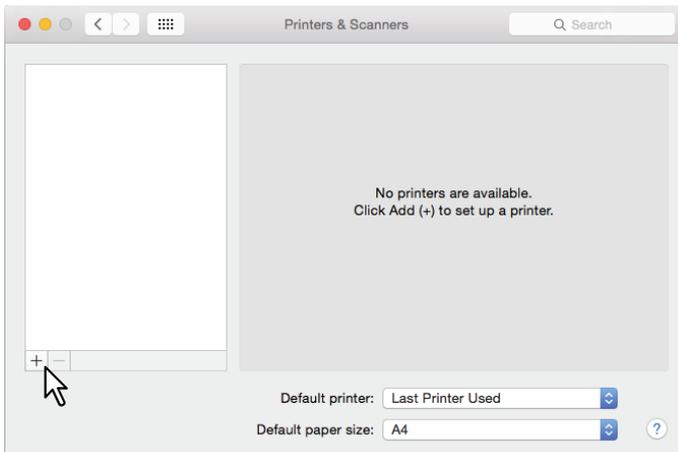
The printer is added to the Printer List.

## ❑ Configuring Bonjour printing

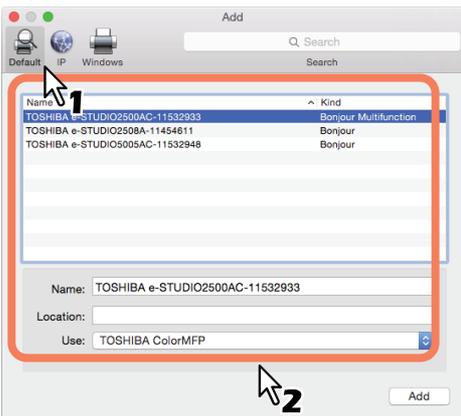
### 1 Open System Preferences and click [Printers & Scanners].



### 2 Click [+].



### 3 Click [Default] and select the TOSHIBA MFP of the Bonjour connection displayed in the list.



#### Tips

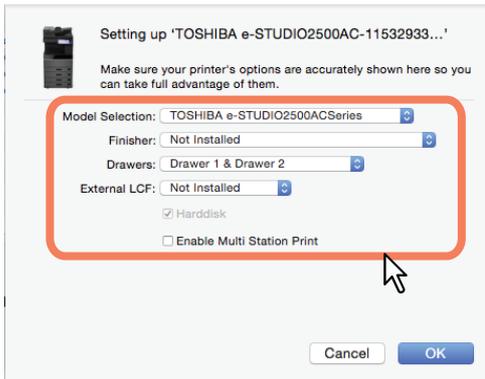
- In the [Name] box, the device name that you selected in the list is automatically displayed.
- Even when you select the equipment from the list, the correct PPD file is not selected in the [Use] box. Therefore, select [Other] in the [Use] box, and select the PPD file (TOSHIBA\_xxxxxMFP\_X7.gz) from the [Library/Printers/PPDs/Contents/Resources] folder.
  - \* The "xxxxx" part of the file name is replaced in "Color" or "Mono" depending on the installed PPD file.

### 4 Click [Add]. The [Installable Options] window appears.

## 5 Set the following options.

For setting items, refer to the following section.

 P.98 “Option setting list”



## 6 Click [OK].

The printer is added to the Printer List.

---

## ❑ Option setting list

- **Model Selection**

**TOSHIBA e-STUDIO5005ACSeries** — Select this when e-STUDIO5005AC Series is used.

**TOSHIBA e-STUDIO2500ACSeries** — Select this when e-STUDIO2500AC Series is used.

**TOSHIBA e-STUDIO5008ASeries** — Select this when e-STUDIO5008A Series is used.

**TOSHIBA e-STUDIO7506ACSeries** — Select this when e-STUDIO7506AC Series is used.

**TOSHIBA e-STUDIO8508ASeries** — Select this when e-STUDIO8508A Series is used.

- **Finisher**

**Not Installed** — Select this if a finisher is not installed.

**Saddle Stitch Finisher** — Select this when the Finisher or Saddle Stitch Finisher is installed.

**Saddle Stitch Finisher and Hole Punch** — Select this when the Finisher or Saddle Stitch Finisher and Hole Punch unit are installed.

**Job Separator** — Select this when the Job Separator is installed.

**Inner Finisher (2 Trays)** — Select this when the Inner Finisher (2 Trays) is installed.

- **Drawers**

**Drawer 1** — Select this when the drawer 1 is installed.

**Drawer 1 & LCF** — Select this when the drawer 1 and LCF are installed.

**Drawer 1 & Drawer 3** — Select this when the drawer 1 and 3 are installed.

**Drawer 1 & Drawer 3, 4** — Select this when the drawer 1, 3 and 4 are installed.

**Drawer 1 & Drawer 2** — Select this when the drawer 1 and 2 are installed.

**Drawer 1, 2 & LCF** — Select this when the drawer 1, 2 and LCF are installed.

**Drawer 1, 2 & Drawer 3** — Select this when the drawer 1, 2 and 3 are installed.

**Drawer 1, 2 & Drawer 3, 4** — Select this when the drawer 1, 2, 3 and 4 are installed.

- **Enable Multi Station Print**

Select this to enable the Multi Station Print.

## Uninstalling the Mac OS PPD File

---

In order to uninstall the Mac OS PPD file, delete the PPD file in the following folder.

- Library/Printers/PPDs/Contents/Resources/TOSHIBA\_XXXXMFP\_X7.gz
  - Library/Printers/toshiba/filter
  - Library/Printers/toshiba/Icons
  - Library/Printers/toshiba/PDEs
- \* The "XXXX" part of the file name is replaced in "Color" or "Mono" depending on the installed PPD file.



# INSTALLING PRINTER DRIVERS FOR UNIX/ Linux

This chapter provides instructions on how to install client software for UNIX/Linux.

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## Setting Up the UNIX/Linux Filters

---

### ■ About UNIX/Linux filters

In the Install Disc, the following filters for UNIX/Linux workstations are included:

#### **net\_estcolor (For a Color MFP)**

#### **net\_estbw (For a Black and White MFP)**

This file is a shell script that will be installed in “/usr/lib/lp/model”. It contains all the parsing for the printer specific commands and it generates all the output code. Being a shell script, a system administrator can modify it if a site requires any custom options or if other components are installed in non-standard locations.

#### **lpdsend**

This is an executable program that is called by net\_estcolor/net\_estbw to send the print file to the system using the LPD protocol. This program will be installed in “/opt/toshiba/tap/bin”.

#### **lpLinux.sh (For the Linux filter)**

This file is a shell script that simulates the command line functions of lp. After processing the command line options, the e-STUDIO filter is invoked in the same way as a System V print filter. This file is installed in “/opt/toshiba/tap/bin”. A symbolic link to this file will be installed in the “/usr/local/bin” directory as lptap.

#### **estcolorBackend (For a Color MFP and its AIX filter)**

#### **estbwBackend (For a Black and White MFP and its AIX filter)**

This is an executable program that is called by the AIX qdaemon. It receives the arguments from the qdaemon, interrogates it for copy information etc. then calls the queues’ copy of net\_estcolor/net\_estbw to run the print. This program will be installed in “/opt/toshiba/tap/bin”.

#### **estcoloradd (For a Color MFP)**

#### **estbwadd (For a Black and White MFP)**

This file is a shell script that is used to create a printer description. This file will be installed in “/opt/toshiba/tap/bin”. A symbolic link will be installed in the “/bin” directory that will point to the actual location of this file.

#### **estcolorrm (For a Color MFP)**

#### **estbwrm (For a Black and White MFP)**

This file is a shell script that is used to remove a printer description. This file will be installed in “/opt/toshiba/tap/bin”. A symbolic link will be installed in the “/bin” directory that will point to the actual location of this file.

#### **net\_estcolor.1 (For a Color MFP)**

#### **net\_estbw.1 (For a Black and White MFP)**

This is an input file for the man command that supplies online documentation for the printer specific options. This file will be installed in “/opt/toshiba/tap/man/man1”. A symbolic link will be installed in the /usr/man/man1 directory that will point to the actual location of this file.

## ■ System requirements

For UNIX/Linux workstation, the following environment is required.

OS:	Sun Solaris 11.2 HP-UX Version 11iv3 IBM AIX 7.x Fedora 21/22 Red Hat Enterprise Linux 5.x/6.x/7.x SuSE Linux Enterprise Server 11/12 Open SUSE 13.2/13.3 Ubuntu 14.04LTS/15.04 Debian 7/8
Protocol:	TCP/IP
Module:	Python must be installed.

### Notes

- The “Python” module must be installed on your UNIX/Linux workstation to enable printing. The “Python” module is usually installed in the “/usr/bin/” directory. Check this directory whether the “Python” module is installed.
- The lpd service must be running on Linux system.
- Printing using local port is provided via Samba. Printing via Samba is performed through either IPv4 or IPv6. To perform printing by using a local port that specifies IPv6, IPv6 should be selected on Samba.

## ■ Precautions for using user authentication

The login name is specified as being case sensitive in the UNIX/Linux system, but not in the equipment. Therefore, ABC, Abc, abc are treated as a different login name in the UNIX/Linux system, but as the same login name in the equipment.

## ■ Configuring UNIX/Linux printing using UNIX/Linux filters

When you want to configure the UNIX/Linux printing using the UNIX/Linux filters, install the UNIX/Linux filters and configure the LPR queue.

### □ Installing the UNIX/Linux filters

UNIX/Linux Filters are provided as tar files for each Operating System. You can install them by copying the tar file into the root directory and extract the file.

- 1 Log on to the root account.**
- 2 Insert the Install Disc into the disc drive.**
- 3 Enter the following command and check the output:**

uname

Confirm the displayed message for each OS.

- Solaris: "SunOS", HP-UX: "HP-UX", IBM AIX: "AIX", Linux: "Linux"

### Note

If the output is not as above, ask your administrator.

---

## 4 Copy the tar file onto the root.

A tar file for each operating system is included in following folders:

- Color MFP
  - For Solaris: [Install Disc]/Admin/Color\_Unix\_Linux/SolarisFilter/Usa/
  - For HP-UX: [Install Disc]/Admin/Color\_Unix\_Linux/HP-UXFilter/Usa/
  - For AIX: [Install Disc]/Admin/Color\_Unix\_Linux/AIXFilter/Usa/
  - For Linux: [Install Disc]/Admin/Color\_Unix\_Linux/LinuxFilter/Usa/
- Black and White MFP
  - For Solaris: [Install Disc]/Admin/BW\_Unix\_Linux/SolarisFilter/Usa/
  - For HP-UX: [Install Disc]/Admin/BW\_Unix\_Linux/HP-UXFilter/Usa/
  - For AIX: [Install Disc]/Admin/BW\_Unix\_Linux/AIXFilter/Usa/
  - For Linux: [Install Disc]/Admin/BW\_Unix\_Linux/LinuxFilter/Usa/

## 5 Change to the root (/) directory.

## 6 Enter the following command:

- **For Solaris:**  
tar xvf solaris.tar
- **For HP-UX:**  
tar xvf hpux.tar
- **For IBM AIX:**  
tar xvf aix.tar
- **For Linux:**  
tar xvf linux.tar

## 7 The command extracts all the required files and installs them in the correct locations. Continue the procedure for configuring the print queue.

 P.105 “Configuring the print queue”

## ❑ Configuring the print queue

After you copy UNIX/Linux Filters, you can configure the print queue.

There are two ways to configure the print queue: one is creating a print queue using `estcoloradd/estbwadd`, and the other is creating a print queue manually without using `estcoloradd/estbwadd`.

📖 P.105 “Creating a print queue using `estcoloradd/estbwadd`”

📖 P.105 “Creating a Print Queue Manually”

### Creating a print queue using `estcoloradd/estbwadd`

You can create a print queue using `estcoloradd/estbwadd`.

#### 1 Log on to the root account.

#### 2 Enter the following command:

##### Color MFP:

```
estcoloradd <queue name> <host name or IP address>
```

##### Black and White MFP:

```
estbwadd <queue name> <host name or IP address>
```

##### Tips

- This command creates a print queue using the system’s `lpadmin` command. It also creates a configuration file that has the destination IP address or host name. Use the configuration file to change print queue parameters.
- The `lpadmin` command saves a printer interface file as the print queue name, and the configuration file is stored in a file named `<queue name>.conf`. The interface file and configuration file is saved in following directory.
  - Solaris: `/etc/lp/interfaces`
  - HP-UX: `/etc/lp/interface`
  - IBM AIX: `/opt/toshiba/tap/filter`
  - Linux: `/opt/toshiba/tap/interface`
- Under Linux, the `printtool` (or equivalent) utility must be used to add the printer into the `lp` printing system after executing the `estcoloradd/estbwadd` command. For `printtool` utility, refer to the manual of the OS.

### Creating a Print Queue Manually

You can also configure the print queue by adding a remote printer manually.

The procedure varies depending on the operating systems.

📖 P.106 “Creating a print queue manually on Solaris”

📖 P.107 “Creating a print queue manually on HP-UX”

📖 P.107 “Creating a print queue manually on IBM AIX”

📖 P.108 “Creating a print queue manually on Linux”

##### Note

Use Bourne Shell(`sh`) to create a print queue manually

---

## Creating a print queue manually on Solaris

---

- 1** Log on to the root account.
- 2** Open your UNIX/Linux editor.
- 3** Create the following file.  
`/etc/lp/interfaces/<queue name>.conf`
- 4** Add a line as below in the `<queue name>.conf`.  
`dest=<IP address>`
- 5** Save the file.
- 6** Enter the following command to change the working directory:  
`cd /etc/lp/interfaces/`
- 7** Enter the following command:  
`chmod +x <queue name>.conf`
- 8** Enter the following command:  
`chown lp:lp <queue name>.conf`
- 9** Enter the following command:  
**Color MFP:**  
`lpadmin -p <queue name> -v /dev/null -l any \  
-i /usr/lib/lp/model/net_estcolor`  
**Black and White MFP:**  
`lpadmin -p <queue name> -v /dev/null -l any \  
-i /usr/lib/lp/model/net_estbw`
- 10** Enter the following command:  
`accept <queue name>`
- 11** Enter the following command:  
`enable <queue name>`

## Creating a print queue manually on HP-UX

- 1** Log on to the root account.
- 2** Open your UNIX/Linux editor.
- 3** Create the following file.  
/etc/lp/interface/<queue name>.conf
- 4** Add a line as below in the <queue name>.conf.  
dest=<IP address>
- 5** Save the file.
- 6** Enter the following command to change the working directory:  
cd /etc/lp/interfaces/
- 7** Enter the following command:  
chmod +x <queue name>.conf
- 8** Enter the following command:  
chown lp:lp <queue name>.conf
- 9** Enter the following command:  
ps -ef | grep lpsched | grep -iv grep > /dev/null 2>&1
- 10** Enter the following command:  
echo \$?
- 11** If “0” is outputted on the screen, turn the scheduler OFF. Enter the following command:  
/usr/sbin/lpshut > /dev/null 2>&1
- 12** Enter the following command:  
Color MFP:  
/usr/sbin/lpadmin -p<queue name> -v/dev/null \  
-mnet\_estcolor -orm<queue name> -orpprint -ob3  
Black and White MFP:  
/usr/sbin/lpadmin -p <queue name> -v/dev/null \  
-mnet\_estbw -orm <queue name> -orpprint -ob3
- 13** Enter the following command:  
/usr/sbin/accept <queue name>
- 14** Enter the following command:  
enable <queue name>
- 15** If you turn OFF the scheduler in step 10, turn the scheduler ON. Enter the following command:  
/usr/sbin/lpsched > /dev/null 2>&1

## Creating a print queue manually on IBM AIX

- 1** Enter the following command:  
ls /opt/toshiba/tap/filter
- 2** If the above directory does not exist, enter the following command:  
mkdir /opt/toshiba/tap/filter
- 3** Log on to the root account.
- 4** Open your UNIX/Linux editor.
- 5** Create the following file.  
/opt/toshiba/tap/filter/<queue name>.conf

---

**6 Add a line as below in the <queue name>.conf.**

```
dest=<IP address>
```

**7 Save the file.****8 Enter the following command:**

```
mkque -q<queue name> \  
-a 's_statfilter = /usr/lib/lpd/bsdshort' \  
-a 'up = TRUE' -a 'host = <IP address>' -a 'rq = print'
```

**9 Enter the following command:****Color MFP:**

```
mkquedev -q <queue name> -ddev_<queue name> \  
-a 'backend = /opt/toshiba/tap/bin/estcolorBackend'
```

**Black and White MFP:**

```
mkquedev -q <queue name> -ddev_<queue name> \  
-a 'backend = /opt/toshiba/tap/bin/estbwBackend'
```

**10 Enter the following command:****Color MFP:**

```
cp /usr/lib/lpd/pio/predef/net_estcolor \  
/opt/toshiba/tap/filter/<queue name>
```

**Black and White MFP:**

```
cp /usr/lib/lpd/pio/predef/net_estbw \  
/opt/toshiba/tap/filter/<queue name>
```

---

**Creating a print queue manually on Linux**

---

**1 Enter the following command:**

```
ls /opt/toshiba/tap/interface
```

**2 If the above directory does not exist, enter the following command:**

```
mkdir /opt/toshiba/tap/interface
```

**3 Log on to the root account.****4 Open your UNIX/Linux editor.****5 Create the following file.**

```
/opt/toshiba/tap/interface/<queue name>.conf
```

**6 Add a line as below in the <queue name>.conf.**

```
dest=<IP address>
```

**7 Save the file.****8 Enter the following command:****Color MFP:**

```
cp /opt/toshiba/tap/model/net_estcolor \  
/opt/toshiba/tap/interface/<queue name>
```

**Black and White MFP:**

```
cp /opt/toshiba/tap/model/net_estbw \  
/opt/toshiba/tap/interface/<queue name>
```

**9 Enter the following command:**

```
/opt/toshiba/tap/bin/modPrintcap \  
-a <queue name> <IP address>
```

**10 Enter the following command:**

```
ls /opt/toshiba/tap/bin/flag_<queue name>
```

**Tip**

The file in step 10 does not exist when the operations from step 1 to 9 are correctly performed. In that case, the operation of step 11 is not required to be performed. Skip to step 12.

---

**11** If the above file exists, enter the following command.

```
/opt/toshiba/tap/bin/printconf_import \  
-a <queue name> <IP_ADDRESS>  
rm /opt/toshiba/tap/bin/flag_<queue name>
```

**12** Restart your lpd.

---

## ❑ Changing the default values

You can change the default values of a print queue by the following procedure.

### 1 Confirm the interface file of which name is same as the print queue.

- This file contains all of the default settings and values that can be set. These values are case sensitive and must conform to the `/bin/sh` variable format. The interface file is saved in the following directory.
  - Solaris: `/etc/lp/interfaces`
  - HP-UX: `/etc/lp/interface`
  - IBM AIX: `/opt/toshiba/tap/filter`
  - Linux: `/opt/toshiba/tap/interface`

### 2 To edit the configuration file manually, add a line that include parameters and value.

- The configuration file is saved in following directory.
  - Solaris: `/etc/lp/interfaces`
  - HP-UX: `/etc/lp/interface`
  - IBM AIX: `/opt/toshiba/tap/filter`
  - Linux: `/opt/toshiba/tap/interface`

For example, to change the default orientation to Landscape, add the following line:

`orient= "LANDSCAPE"`

## ❑ Deleting the print queue

There are two ways to delete the print queue: one is deleting a print queue using `estcolorm/estbwrn`, and the other is deleting a print queue manually without using `estcolorm/estbwrn`.

📖 P.110 “Deleting a print queue using `estcolorm/estbwrn`”

📖 P.111 “Deleting a Print Queue Manually”

### Deleting a print queue using `estcolorm/estbwrn`

When you want to delete the queue using `estcolorm/estbwrn`, perform the following procedure.

#### 1 Log on to the root account.

#### 2 Enter the following command:

**Color MFP:**

`estcolorm <queue name>`

**Black and White MFP:**

`estbwrn <queue name>`

#### Tips

- This command uses the system’s `lpadmin` command to delete the print queue and configuration file.
- Restart the `lpd` under Linux.

---

## Deleting a Print Queue Manually

You can also configure the print queue by deleting a print queue manually.

The procedure varies depending on the operating systems.

- 📖 P.111 “Deleting a print queue manually on Solaris”
- 📖 P.111 “Deleting a print queue manually on HP-UX”
- 📖 P.112 “Deleting a print queue manually on IBM AIX”
- 📖 P.112 “Deleting a print queue manually on Linux”

---

### Deleting a print queue manually on Solaris

- 1 Log on to the root account.**
- 2 Enter the following command:**  
`lpadmin -x <queue name>`
- 3 Enter the following command:**  
`rm /etc/lp/interfaces/<queue name>.conf`

---

### Deleting a print queue manually on HP-UX

- 1 Log on to the root account.**
- 2 Enter the following command:**  
`ps -ef | grep lpsched | grep -iv grep > /dev/null 2>&1`
- 3 Enter the following command:**  
`echo $?`
- 4 If “0” outputted on the screen, turn the scheduler OFF. Enter the following command:**  
`/usr/sbin/lpshut > /dev/null 2>&1`
- 5 Enter the following command:**  
`/usr/sbin/lpadmin -x<queue name>`
- 6 Enter the following command:**  
`rm /etc/lp/interface/<queue name>.conf`
- 7 If “0” was outputted on the screen in step 4, turn the scheduler ON. Enter the following command:**  
`/usr/sbin/lpsched > /dev/null 2>&1`

---

## Deleting a print queue manually on IBM AIX

---

- 1 Log on to the root account.**
- 2 Enter the following command:**  
`rm /opt/toshiba/tap/filter/<queue name>`
- 3 Enter the following command:**  
`rm /opt/toshiba/tap/filter/<queue name>.conf`
- 4 Enter the following command:**  
`rmqueuedev -q<queue name> -ddev_<queue name>`
- 5 Enter the following command:**  
`rmque -q<queue name>`

---

## Deleting a print queue manually on Linux

---

- 1 Log on to the root account.**
- 2 Enter the following command:**  
`rm /opt/toshiba/tap/interface/<queue name>`
- 3 Enter the following command:**  
`rm /opt/toshiba/tap/interface/<queue name>.conf`
- 4 Enter the following command:**  
`/opt/toshiba/tap/bin/modPrintcap -d <queue name>`
- 5 Enter the following command:**  
`ls /opt/toshiba/tap/bin/flag_<queue name>`
- 6 If the above file exists, enter the following command:**  
`/opt/toshiba/tap/bin/printconf_import -d <queue name> \  
rm /opt/toshiba/tap/bin/flag_<queue name>`
- 7 Restart your lpd.**

## Setting Up the CUPS

---

When you want to configure UNIX/Linux printing using CUPS, you can use LPR printing or IPP printing.

### Note

When printing using CUPS, the output paper size cannot be specified. If you want to specify the output paper size, use the UNIX/Linux filter.

### ■ About CUPS

This section describes the behavior, options, and installation method of the CUPS printer driver for the equipment. The behavior of the printer driver presented in this specification is consistent with CUPS v1.1.15. The driver may appear and/or operate slightly differently in different versions.

In the CUPS environment, use a PostScript Printer Description (PPD) file, not a printer driver to configure the printing. The PPD file is included in this package.

#### **Implementation Method**

This driver consists of a PPD file that works in conjunction with an interface like XPP, KPrinter, etc. It can also be used on OSX in the same way that it is used on Linux, but this is not recommended.

---

## ■ Configuring UNIX/Linux printing using CUPS

You can configure the CUPS for LPR printing or IPP printing.

### □ Installing the CUPS for LPR printing

The PPD must first be copied onto the local machine, the printer installed, and then the PPD configured. The printer is then installed and configured using CUPS via the browser. The PPD can be copied to the root directory and extracted. After extracting the PPD file, restart the CUPS daemon.

The PPD is placed in the “/usr/share/cups/model/Toshiba” directory (which will require root privileges and the Toshiba directory may need to be created). The PPD can be simply copied to the appropriate directory and the CUPS daemon re-started.

#### 1 Insert the Install Disc into the disc drive.

#### 2 Log on to the root account.

#### 3 Copy the tar file into the root directory by entering the following command:

**Color MFP:**

```
cp TOSHIBA_ColorMFP_CUPS.tar
```

**Black and White MFP:**

```
cp TOSHIBA_MonoMFP_CUPS.tar
```

A tar file is included in the following folder in the Install Disc:

- Color MFP
  - “Admin/Color\_Unix\_Linux/CUPS/Usa/2-sided\_default”  
This PPD file enables to set 2-sided printing by default.
  - “Admin/Color\_Unix\_Linux/CUPS/Usa/normal”  
This PPD file enables to set 1-sided printing by default.
- Black and White MFP
  - “Admin/BW\_Unix\_Linux/CUPS/Usa/2-sided\_default”  
This PPD file enables to set 2-sided printing by default.
  - “Admin/BW\_Unix\_Linux/CUPS/Usa/normal”  
This PPD file enables to set 1-sided printing by default.

**Tip**

When this equipment is used in Europe or North America, install the PPD file enabling 2-sided printing by default.

#### 4 Enter the following command:

```
cd /
```

#### 5 Extract the tar file by entering the following command:

**Color MFP:**

```
tar xvf TOSHIBA_ColorMFP_CUPS.tar
```

**Black and White MFP:**

```
tar xvf TOSHIBA_MonoMFP_CUPS.tar
```

When you execute this command, the PPD file and filter file will be automatically installed in the correct directory.

- When you use other than Linux, or you do not use the CUPS system as the standard installation, proceed to the next step.
- When you use Linux and also use the CUPS system as the standard installation, proceed to step 11.

**6 Copy the PPD file and filter file to the correct directory by entering the following command.:****Color MFP:**

```
cd /usr/share/cups/model/Toshiba
mv Toshiba_ColorMFP_CUPS.gz
```

The target directory to which the PPD file is copied

```
cd /usr/lib/cups/filter/Toshiba
mv estXXXX_Authentication
```

The target directory to which the filter file is copied

\* "XXXX" is the model name of the TOSHIBA MFP.

**Black and White MFP:**

```
cd /usr/share/cups/model/Toshiba
mv Toshiba_MonoMFP_CUPS.gz
```

The target directory to which the PPD file is copied

```
cd /usr/lib/cups/filter/Toshiba
mv estXXXX_Authentication
```

The target directory to which the filter file is copied

\* "XXXX" is the model name of the TOSHIBA MFP.

**7 Enter the following command:**

cd the target directory to which the PPD file is copied

**8 Enter the following command for extracting the PPD file:****Color MFP:**

```
gunzip TOSHIBA_ColorMFP_CUPS.gz
```

**Black and White MFP:**

```
gunzip TOSHIBA_MonoMFP_CUPS.gz
```

**9 Change the following underlined description in the TOSHIBA\_ColorMFP\_CUPS / TOSHIBA\_MonoMFP\_CUPS file (involved in the 60th line) to the correct directory.**

```
*cupsFilter:"application/vnd.cups-postscript 0/usr/lib/cups/filter/Toshiba/estXXXX_Authentication"
```

\* "XXXX" is the model name of the TOSHIBA MFP.

**10 Enter the following command for compressing the PPD file:****Color MFP:**

```
gzip TOSHIBA_ColorMFP_CUPS
```

**Black and White MFP:**

```
gzip TOSHIBA_MonoMFP_CUPS
```

**11 Enter the following command:**

```
service lpd stop
```

When using the Red Hat Linux, proceed to the next step. When using other than the Red Hat Linux, proceed to step 17.

**12 When using the Red Hat Linux, enter the following command:**

```
/usr/bin/redhat-switch-printer
```

The [redhat-switch-printer] dialog box appears.

**13 Select [CUPS] and click [OK].**

The [information] dialog box appears.

**14 Click [OK].**

**15 Enter the following command:**

service cups start

**Note**

If the CUPS has already been started, stop the CUPS service once by entering “service cups stop” command, and then enter the above command to restart the CUPS service.

**16 Enter the following command:**

/usr/bin/cupsconfig

The Common UNIX Printing System page appears. Skip to step 18.

**17 Open the browser and locate CUPS by typing http://localhost:631/” in the address box.**

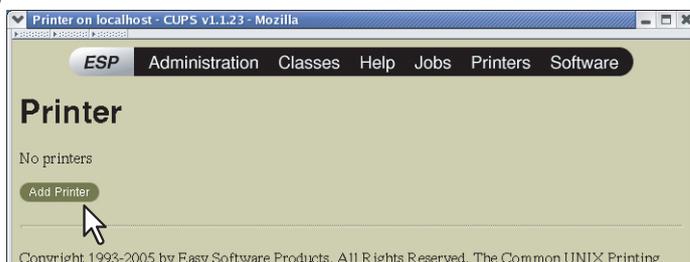
The Common UNIX Printing System page appears.

**18 Click the [Manage Printers] link.**



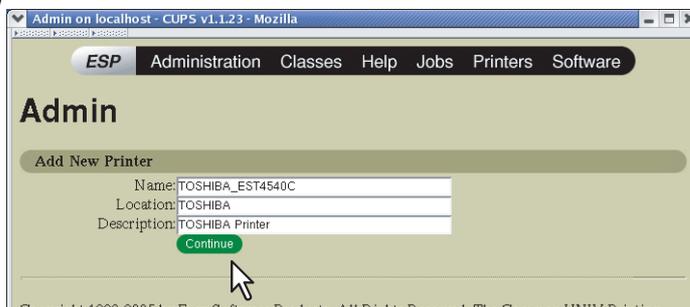
The Printer page is displayed.

**19 Click [Add Printer].**



The Admin page is displayed.

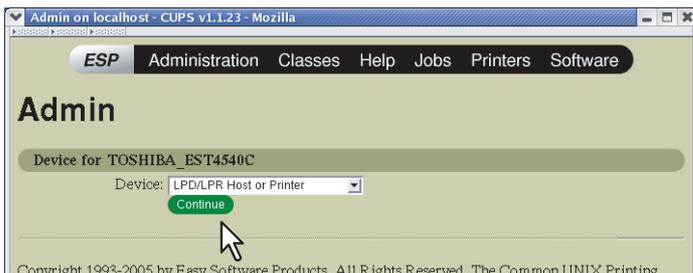
**20 Enter the printer name, location, and description of the printer in each box and click [Continue].**



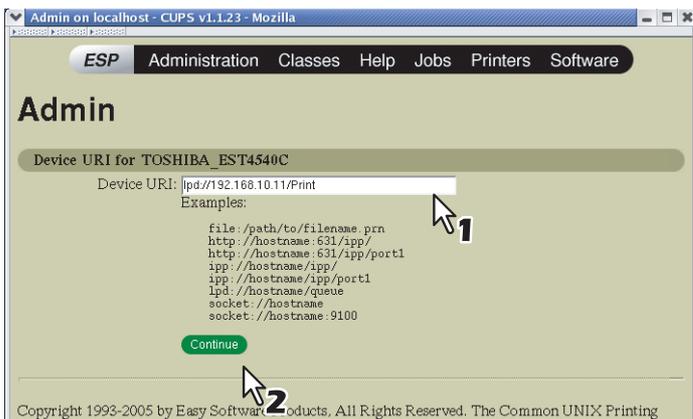
**Note**

If a new printer name is a duplicate of a name already in the printer list, the new printer will replace the original printer.

## 21 Select [LPD/LPR Host or Printer] in the [Device] box and click [Continue].



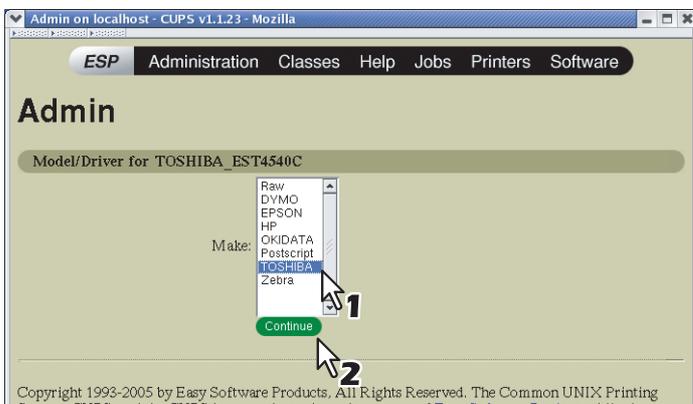
## 22 Enter “lpd://<IP address>/Print” in the [Device URI] box and click [Continue].



### Note

Make sure to capitalize the “P” in “Print” for the device URI.

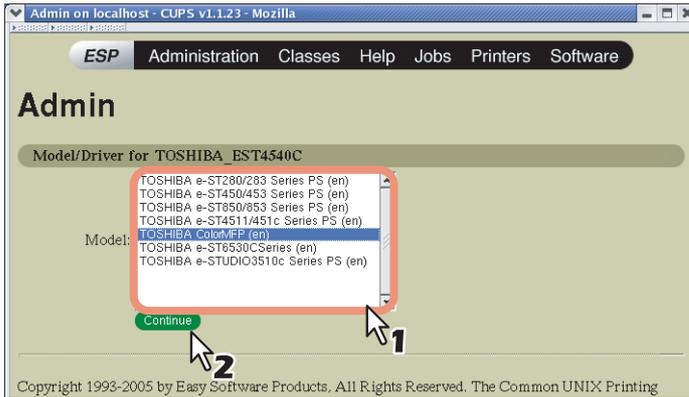
## 23 Select [TOSHIBA] in the [Make] box and click [Continue].



### Note

If you do not see [TOSHIBA] in the [Make] list, restart CUPS.

**24** Select the PPD in the [Model] list and click [Continue].



**25** Confirm that the message notifying that the new printer has been properly added appears.



**26** Go to the following page for configuring the print options:  
📖 P.123 "Configuring print options"

## ❑ Installing the CUPS for IPP printing

When you want to set up an IPP print queue in the Linux OS, follow the procedures here.

### When IPP SSL is enabled on the equipment

When the IPP SSL is enabled on the equipment, you require the following settings on Linux OS.

- OpenSSL should be installed
  - CUPS should be configured with “--enable-ssl” option
  - HTTPS symbol should be created in the “/usr/lib/cups/backend” directory.
1. Open the console and login with root privileges.
    - Use “su” or “sudo -s” to login with root privileges.
  2. Enter the following command:  
`cd /usr/lib/cups/backend`
  3. Enter the following command:  
`ln -s ipp https`
  4. Restart the CUPS Service in Linux.
- 
- IPP/SSL certificates in the “/etc/cups” directory should be created.
1. Enter the following command:  
`cd /etc/cups`  
`mkdir ssl`
  2. Enter the following command:  
`openssl req -new -x509`  
`-keyout /etc/cups/ssl/server.key`  
`-out /etc/cups/ssl/server.crt -days 365 -nodes`

#### Notes

- The above command must be entered as one continuous command with no carriage returns.
  - The user will be prompted to enter country/state/province/locality/organization/organizational unit/common name and e-mail address.
3. Enter the following command:  
`chmod 600 /etc/cups/ssl/server.*`
    - \* The “-nodes” option prevents the certificate and key from being encrypted.
    - \* The cupsd process runs in the background, detached from any input source; if you encrypt these files then cupsd will not be able to load them.
  4. Add the following lines in the cupsd.conf file in /etc/cups path.  
SSLPort 443  
ServerCertificate /etc/cups/ssl/server.crt  
ServerKey /etc/cups/ssl/server.key
  5. Run the following command on the shell to restart the CUPS Server.  
Service cups restart

---

**1 Insert the Install Disc into the disc drive.**

**2 Log on to the root account.**

**3 Copy the tar file into the root directory by entering the following command:**

**Color MFP:**

```
cp TOSHIBA_ColorMFP_CUPS.tar
```

**Black and White MFP:**

```
cp TOSHIBA_MonoMFP_CUPS.tar
```

A tar file is included in the following folder in the Install Disc:

- Color MFP
  - “Admin/Color\_Unix\_Linux/CUPS/Usa/2-sided\_default”  
This PPD file enables to set 2-sided printing by default.
  - “Admin/Color\_Unix\_Linux/CUPS/Usa/normal”  
This PPD file enables to set 1-sided printing by default.
- Black and White MFP
  - “Admin/BW\_Unix\_Linux/CUPS/Usa/2-sided\_default”  
This PPD file enables to set 2-sided printing by default.
  - “Admin/BW\_Unix\_Linux/CUPS/Usa/normal”  
This PPD file enables to set 1-sided printing by default.

**Tip**

When this equipment is used in Europe or North America, install the PPD file enabling 2-sided printing by default.

**4 Enter the following command:**

```
cd /
```

**5 Extract the tar file by entering the following command:**

**Color MFP:**

```
tar xvf TOSHIBA_ColorMFP_CUPS.tar
```

**Black and White MFP:**

```
tar xvf TOSHIBA_MonoMFP_CUPS.tar
```

When you execute this command, the PPD file and filter file will be automatically installed in the correct directory.

- When you use other than Linux, or you do not use the CUPS system as the standard installation, proceed to the next step.
- When you use Linux and also use the CUPS system as the standard installation, proceed to step 11.

**6 Copy the PPD file and filter file to the correct directory by entering the following command.:**

**Color MFP:**

```
cd /usr/share/cups/model/Toshiba
```

```
mv Toshiba_ColorMFP_CUPS.gz The target directory to which the PPD file is copied
```

```
cd /usr/lib/cups/filter/
```

```
mv estXXXX_Authentication The target directory to which the filter file is copied
```

\* “XXXX” is the model name of the TOSHIBA MFP.

**Black and White MFP:**

```
cd /usr/share/cups/model/Toshiba
```

```
mv Toshiba_MonoMFP_CUPS.gz The target directory to which the PPD file is copied
```

```
cd /usr/lib/cups/filter/
```

```
mv estXXXX_Authentication The target directory to which the filter file is copied
```

\* “XXXX” is the model name of the TOSHIBA MFP.

- 
- 7 Enter the following command:**  
cd the target directory to which the PPD file is copied
  - 8 Enter the following command for extracting the PPD file:**  
**Color MFP:**  
gunzip TOSHIBA\_ColorMFP\_CUPS.gz  
**Black and White MFP:**  
gunzip TOSHIBA\_MonoMFP\_CUPS.gz
  - 9 Change the following underlined description in the TOSHIBA\_ColorMFP\_CUPS / TOSHIBA\_MonoMFP\_CUPS file (involved in the 60th line) to the correct directory.**  
\*cupsFilter:"application/vnd.cups-postscript 0./usr/lib/cups/filter/Toshiba/estXXXX\_Authentication"  
\* "XXXX" is the model name of the TOSHIBA MFP.
  - 10 Enter the following command for compressing the PPD file:**  
**Color MFP:**  
gzip TOSHIBA\_ColorMFP\_CUPS  
**Black and White MFP:**  
gzip TOSHIBA\_MonoMFP\_CUPS
  - 11 Enter the following command:**  
service lpd stop  
  
**Note**  
If lpd is already stopped, "Failed" will be displayed.
    - When using the Red Hat Linux, continue to the next step.
    - When using other than the Red Hat Linux, skip to step 15.
  - 12 When using the Red Hat Linux, enter the following command:**  
/usr/bin/redhat-switch-printer  
  
The [redhat-switch-printer] dialog box appears.
  - 13 Select [CUPS] and click [OK].**  
The [information] dialog box appears.
  - 14 Click [OK].**

---

## 15 Enter the following command:

```
service cups start
```

### Note

If the CUPS has already been started, stop the CUPS service once by entering “service cups stop” command, and then enter the above command to restart the CUPS service.

## 16 Enter the following command:

```
/usr/bin/cupsconfig
```

The Common UNIX Printing System page appears.

## 17 Open the browser and locate CUPS by typing

“http://localhost:631/” in the address box.

The Common UNIX Printing System page appears.

### Note

When IPP/SSL is enabled, specify “https://local host:443/” in the address field to access the Common UNIX Printing System.

## 18 Click the [Manage Printers] link.

The Printer page appears.

## 19 Add a new https printer by clicking [Add Printer].

Configure the parameters as:

**Name:** <Any Name>

**Location:** <Optional>

**Description:** <Optional>

**Device:** Internet Printing Protocol (http)

**Device URI:** http://<IP address>:631/Print

**Model/Driver:** TOSHIBA

### Notes

When IPP/SSL is enabled, specify as follows:

- **Device:** Internet Printing Protocol (https)
- **Device URI:** https://<IP address>:443/Print

### Tip

Using CUPS Client (print commands lp, lpr, etc.) with -e option, the connection can be encrypted and printing can be done in the above configured printer.

## 20 Confirm that the message notifying that the new printer has been properly added appears.

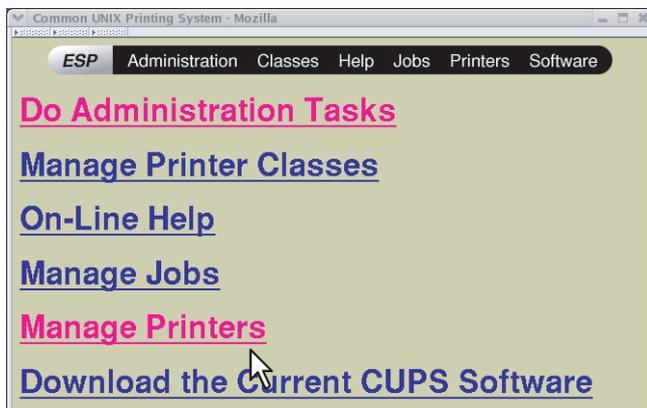
## 21 Go to the following page for configuring the print options:

 P.123 “Configuring print options”

## ❑ Configuring print options

You can set the print options that are applied to the print jobs using CUPS.

### 1 Click the [Manage Printers] link on the startup page.



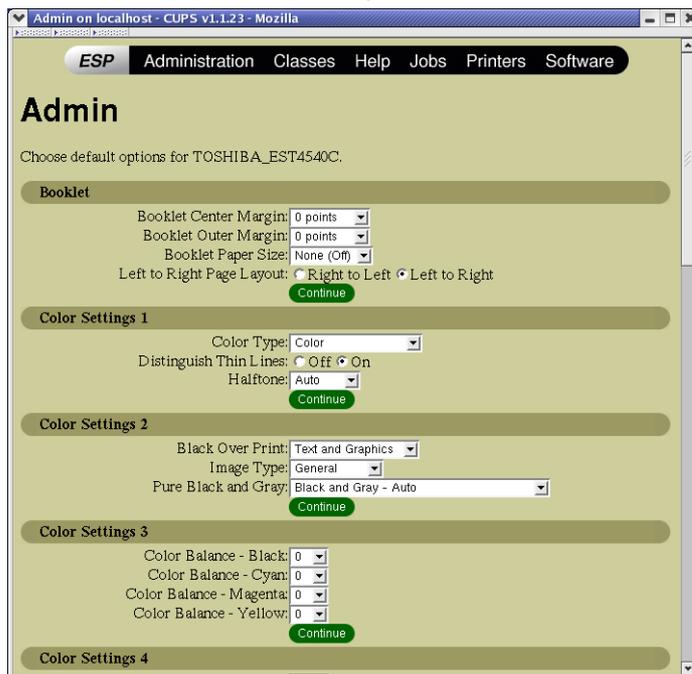
The Printer page is displayed.

### 2 Select this equipment and then click [Configure Printer].



### 3 Configure the print options on the displayed page.

The underscored items are set by default.



#### Booklet

Option Value	Alternative Value	Description
Booklet Center Margin	<u>0</u> to 36 (in unit of 3 points)	Select the center margin.
Booklet Outer Margin	<u>0</u> to 72 (in unit of 6 points)	Select the outer margin.
Booklet Paper Size	<b><u>None (Off)</u></b> Letter A4 Legal Statement Ledger Folio A3 A5 B4 B5 Computer 13" LG 8.5" SQ 8K 16K Executive 13.5" LG	Select a paper size for the booklet. Each two pages are printed on both sides of a sheet which is then folded. The booklet size will be the half size of the paper size that you specify.
Left to Right Page Layout	Right to Left <b><u>Left to Right</u></b>	Select whether the booklet can be read from right to left or left to right.
[Continue] button	Determines the selected items.	

**Color Settings 1 (For Color MFPs)**

Option Value	Alternative Value	Description
Color Type	Auto <b>Color</b> Mono Black and Red Black and Green Black and Blue Black and Cyan Black and Magenta Black and Yellow Black and White	Select whether a print job is printed in color, mono, or twin color.
Distinguish Thin Lines	<b>Off</b> , On	Select whether to distinguish thin lines or not.
Halftone	<b>Auto</b> Detail Smooth	Select the appropriate processing on halftone images among “Auto”, “Detail (high density)” and “Smooth (smooth tone reproduction)”.
Resolution	<b>600 dpi</b> 1200 dpi 600 x 1200 dpi	Select a print resolution.  <b>Notes</b> <ul style="list-style-type: none"> <li>• “600 x 1200 dpi” can be selected only when you print from e-STUDIO2000AC/2500AC.</li> <li>• “1200 dpi” cannot be selected for e-STUDIO2000AC/2500AC.</li> </ul>
[Continue] button	Determines the selected items.	

**Color Settings 2 (For Color MFPs)**

Option Value	Alternative Value	Description
Black Overprint	Off, Text <b>Text and Graphics</b>	Select whether printing background content that has black text overlaid on it.
Image Type	<b>General</b> Photo Presentation Line Art	Select how colors are printed. The printer driver automatically applies proper image quality for selected job type.
PostScript Overprint	<b>Off</b> , On	Select whether to overprint an object that has been set so on an application.  <b>Note</b> This option is selectable only when [Color] or [Auto] is selected in the [Color Type] box in the Color Settings 1 menu.

Option Value	Alternative Value	Description
Pure Black and Gray	Off Black - Auto Black - Text Black - Text and Graphic Black - Text, Graphic and Image <b>Black and Gray - Auto</b> Black and Gray - Text Black and Gray - Text and Graphic Black and Gray - Text, Graphic and Image	Select whether printing the black and gray scale contents in a document using the black toner.
[Continue] button	Determines the selected items.	

### Color Settings 3 (For Color MFPs)

Option Value	Alternative Value	Description
Color Balance - Black	-4, -3, -2, -1, <b>0</b> , 1, 2, 3, 4	Select the density for black toner.
Color Balance - Cyan	-4, -3, -2, -1, <b>0</b> , 1, 2, 3, 4	Select the density for cyan toner.
Color Balance - Magenta	-4, -3, -2, -1, <b>0</b> , 1, 2, 3, 4	Select the density for magenta toner.
Color Balance - Yellow	-4, -3, -2, -1, <b>0</b> , 1, 2, 3, 4	Select the density for yellow toner.
[Continue] button	Determines the selected items.	

### Color Settings 4 (For Color MFPs)

Option Value	Alternative Value	Description
Background Adjustment	-4, -3, -2, -1, <b>0</b> , 1, 2, 3, 4	Select the density level of the background.
Brightness	-4, -3, -2, -1, <b>0</b> , 1, 2, 3, 4	Select the brightness.
Contrast	-4, -3, -2, -1, <b>0</b> , 1, 2, 3, 4	Select the contrast.
Saturation	-4, -3, -2, -1, <b>0</b> , 1, 2, 3, 4	Select the saturation.
Sharpness	-4, -3, -2, -1, <b>0</b> , 1, 2, 3, 4	Select the sharpness.
Use Sharpness Filter	<b>Off</b> , On	Selecting this option allows you to adjust the sharpness for printing.
[Continue] button	Determines the selected items.	

**Finishing**

Option Value	Alternative Value	Description
Destination	<b>Printer's Default</b> Exit Tray Tray 1 Tray 2 Upper Exit Tray Side Exit Tray Job Separator Upper Job Separator Lower	Select a destination.  <b>Note</b> The destinations that you can choose vary depending on the model and the installed options.
Folding	<b>Off, On</b>	Select whether the Folding feature is enabled or not.
Hole Punch	<b>Off</b> Long Edge Punch without rotation Short Edge Punch without rotation Long Edge Punch with 180 degree rotation Short Edge Punch with 180 degree rotation	Select the hole punch option.
Stapling	<b>Off</b> Upper Left (Portrait)/Upper Right (Landscape) Middle Left (Portrait)/Middle Top (Landscape) Lower Left (Portrait)/Upper Left (Landscape) Upper Right (Portrait)/Lower Right (Landscape) Middle Right (Portrait)/Middle Bottom (Landscape) Lower Right (Portrait)/Lower Left (Landscape) Middle Top (Portrait)/Middle Right (Landscape) Middle Bottom (Portrait)/Middle Left (Landscape) Saddle Stitch (Portrait)/Saddle Stitch (Landscape)	Select whether a print job is stapled or its locations.  <b>Note</b> "Saddle Stitch (Portrait)/Saddle Stitch (Landscape)" can be selected only when the Saddle Stitch Finisher is installed.
[Continue] button	Determines the selected items.	

**General**

Option Value	Alternative Value	Description
Collate	<b>Yes, No</b>	Select whether to collate exited paper.
Duplex	<b>1-Sided</b>	1-sided printing
	2-Sided, No Tumble (Long-Edge Binding)	2-sided printing (Long-edge binding)
	2-Sided, Tumble (Short-Edge Binding)	2-sided printing (Short-edge binding)

Option Value	Alternative Value	Description
Media Size	A3, A4, A5, A6, B4, B5, Ledger, Legal, <b>Letter</b> , Statement, Folio, Computer, 13" LG, 8.5" SQ, 12 x 18", 305 x 457 mm, 8K, 16K, 320 x 450 mm, 320 x 460 mm, 13x 19", 13.5" LG, Executive, IndexCard	Select the paper size.
Media Source	<b>Auto</b> (Default) Drawer 1 Drawer 2 LCF Drawer 3 Drawer 4 Bypass Tray	Select the paper source.
Media Type	Plain Thick Thick 1 Thick 2 Thick 3 Thick 4 OHP sheet Thin	Select the paper source.
[Continue] button	Determines the selected items.	

#### Options Installed

Option Value	Alternative Value	Description
Model Selection	<b>TOSHIBA</b> <b>e-STUDIO5005ACSeries</b> TOSHIBA e-STUDIO2500AC Series TOSHIBA e-STUDIO5008A Series TOSHIBA e-STUDIO7506AC Series TOSHIBA e-STUDIO8508A Series	
Drawers	<b>Drawer 1</b> Drawer 1 & LCF Drawer 1 & Drawer 2 Drawer 1, 2 & LCF	Select an optional drawer.
Finisher	<b>Not Installed</b> Inner Finisher Saddle Stitch Finisher Saddle Stitch Finisher and Hole Punch Job Separator	Select the finishing option.
[Continue] button	Determines the selected items.	

**Printing Modes**

Option Value	Alternative Value	Description
Department Code	<b>Disabled</b> Enabled	Select whether or not to use the department codes for printing. When this equipment is managed under the department codes, this option should be enabled.
Do not Print Blank Pages	<b>Off</b> , On	Select whether or not a blank page is printed.
Print Mode	<b>Normal</b> Proof Private - Password Hold	Select a print mode.
Toner Save	<b>Off</b> , On	Select whether to print in the toner save mode.
[Continue] button	Determines the selected items.	

**Printing Modes DC**

Option Value	Alternative Value	Description
Department Code (DC) - Digit 1 to Digit 5	<b>0</b> to 9	Specify the 5-digit department code when "Department Code" of "Printing Modes" is enabled. For the appropriate department code, ask your system administrator.
[Continue] button	Determines the selected items.	

**Private Document Password**

Option Value	Alternative Value	Description
Password - Digit 1 to Digit 5	<b>0</b> to 9	Specify the 5-digit document password when "Private - Password" is selected for "Print Modes".
[Continue] button	Determines the selected items.	

**Banners**

Option Value	Alternative Value	Description
Starting Banner	<b>none</b>	Select whether to print banner pages before printing documents. If you want to print them, select a banner type.
	classified	Classified information
	confidential	Confidential information
	secret	Secret information
	standard	Standard information
	topsecret	Top secret
	unclassified	Unclassified information

Option Value	Alternative Value	Description
Ending Banner	<b>none</b>	Select whether to print banner pages after printing documents. If you want to print them, select a banner type.
	classified	Classified information
	confidential	Confidential information
	secret	Secret information
	standard	Standard information
	topsecret	Top secret
	unclassified	Unclassified information
[Continue] button	Determines the selected items.	

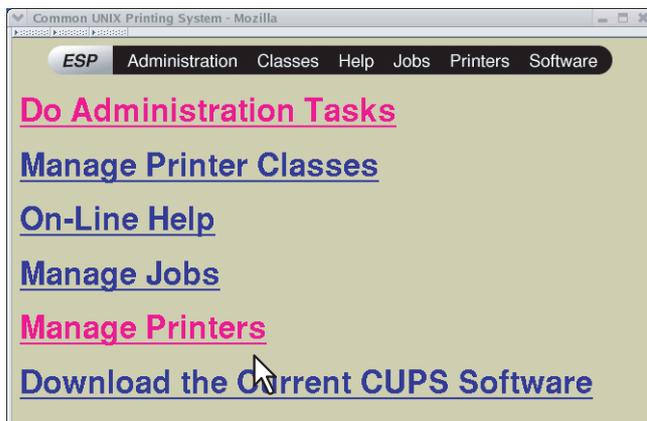
### PS Binary Protocol

Option Value	Alternative Value	Description
PS Binary Protocol	<b>None</b> , TBCP	Select whether to process print data in a binary format using PostScript and using TBCP protocol.
[Continue] button	Determines the selected items.	

## ❑ Modifying printer

You can modify a printer that you have created.

### 1 Click the [Manage Printers] link on the startup page.



The Printer page is displayed.

### 2 Click [Modify Printer].



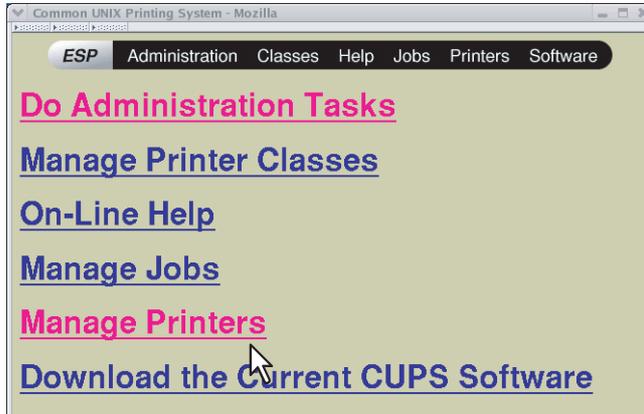
### 3 Modify the location and description in each box and click [Continue].



## ❑ Uninstalling printer

To uninstall a printer that you have created, carry out the following procedure.

### 1 Click the [Manage Printers] link on the startup page.



The Printer page is displayed.

### 2 Click [Delete Printer].



- When a message appears asking to remove the printer, click [Continue].
- The printer is deleted.

### 3 Delete the PPD file “TOSHIBA\_ColorMFP\_CUPS.gz” from the “/usr/share/cups/model/Toshiba” directory.

# INSTALLING SCAN DRIVER AND UTILITIES (Windows)

This chapter describes the installation of the scan driver and scan utilities.

<b>Before Installation</b> .....	<b>134</b>
Type of scan driver and utilities .....	134
System requirements .....	134
<b>Installing Scan Driver and Utilities</b> .....	<b>135</b>
Installing the scan driver and utilities using the installer .....	135
Installing WIA driver to Windows computer .....	137
<b>Uninstalling Scan Driver and Utilities</b> .....	<b>140</b>

## Before Installation

---

This section describes the installation of the scan driver and utilities. Before installing them, read this section.

### ■ Type of scan driver and utilities

Install the following utilities to use the network scan functions.

- **TWAIN driver**  
This software component enables you to import e-Filing documents into TWAIN-compliant applications.
- **File Downloader**  
This software component enables you to import e-Filing documents into your hard disk.
- **Remote Scan driver**  
You can use Remote Scan driver to import the scanned images into your TWAIN-compliant application.
- **WIA driver**  
You can use Remote Scan driver to import the scanned images into your WIA-compliant application.

### ■ System requirements

To install the scan driver and utilities on a Windows computer, the following is required.

- **Display resolution**  
1024 x 768 dots or more
- **Display color**  
High Color (16 bit) or higher is recommended
- **CPU**  
Pentium 133 MHz minimum (Pentium 266 MHz or faster recommended)
- **OS**  
Windows Vista Service Pack 2  
Windows 7 (Service Pack 1 recommended)  
Windows 8.1  
Windows 10  
Windows Server 2008 Service Pack 2  
Windows Server 2012

### □ When the scan driver and utilities have been installed

If the scan driver and utilities have been installed from another e-STUDIO Install Disc, uninstall them, then install again from the Install Disc.

When you uninstall the software, click [No] at the dialog box that displays the message to delete the settings for the scan driver and utilities so that you can restore the settings after installing the new one.

# Installing Scan Driver and Utilities

This section describes how to install the scan driver and utilities.

## ■ Installing the scan driver and utilities using the installer

Perform installation corresponding to your Windows computer. However, you need to follow a different procedure when you install WIA driver into Windows Vista, Windows 7, Windows 8.1, Windows 10, Windows Server 2008, or Windows Server 2012. For the installation procedure for these operating systems, see the following page:

 P.137 “Installing WIA driver to Windows computer”

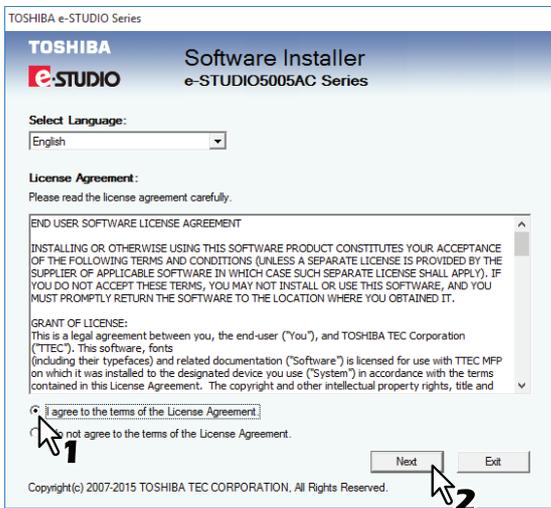
### Note

To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.

### 1 Insert the Install Disc into the disc drive.

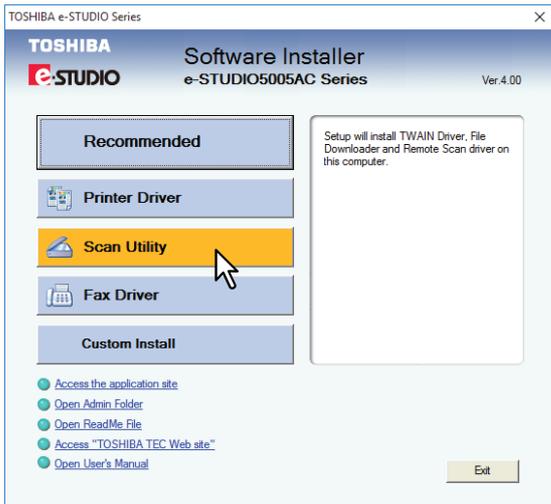
If Software Installer does not automatically start, use the Explorer to open the “e-STUDIO” folder in the Install Disc and double-click “Setup.exe”.

### 2 Select [I agree to the terms of the License Agreement.] and click [Next].



To change the display language, select the desired language from the [Select Language] box.

### 3 Click [Scan Utility].



### 4 Confirm the list of the software to install and click [Install].

### 5 When the installation is complete, click [Finish].

The main menu is displayed.

---

**Note**

The Installer may ask you to restart your computer. If it does, select “Yes, I want to restart my computer now.” and click [Finish] to restart your computer.

**6 Click [Exit].**

When a message appears asking whether to finish the installer, click [Yes].

## ■ Installing WIA driver to Windows computer

This section describes how to install WIA driver to Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012.

Perform installation corresponding to your Windows computer.

### Notes

- To begin the installation of the WIA driver, you must first install the scan utilities to your computer. For instructions on how to install them to your computer, see the following page:  
P.135 “Installing the scan driver and utilities using the installer”
- When you are using Windows Server 2008 or Windows Server 2012, the following must be done before you install WIA driver to your computer.
  - For Windows Server 2008
    - Install [Desktop Experience] from [Server Manager] of [Administrative Tools].
    - Select [Windows Image Acquisition (WIA)] from [Services] of [Administrative Tools], and change the Startup Type from [Disabled] to [Automatic].
    - Select [PnP-X IP Bus Enumerator] from [Services] of [Administrative Tools], and change the Startup Type from [Disabled] to [Automatic].
  - For Windows Server 2012
    - Install [Desktop Experience] from [Server Manager] of [Administrative Tools].
- To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.

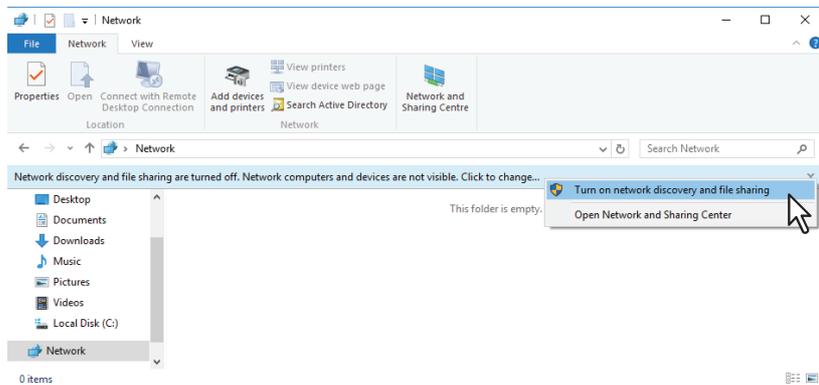
### 1 Open the [Network] screen.

Click [Start] > [File Explorer] > [Network].

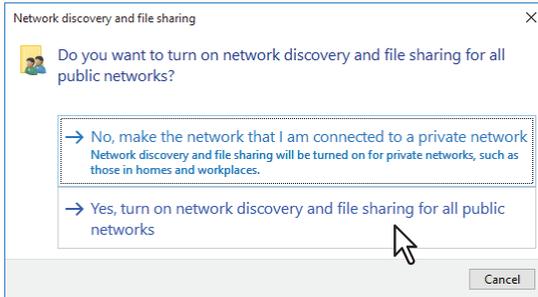
#### Tips

- For Windows 8.1 / Windows Server 2012, click the start charm and click [All apps] > [Computer] > [Network].
- For Windows 7, click [Start] > [Computer] > [Network].
- For Windows Vista / Windows Server 2008, click [Start] > [Network].

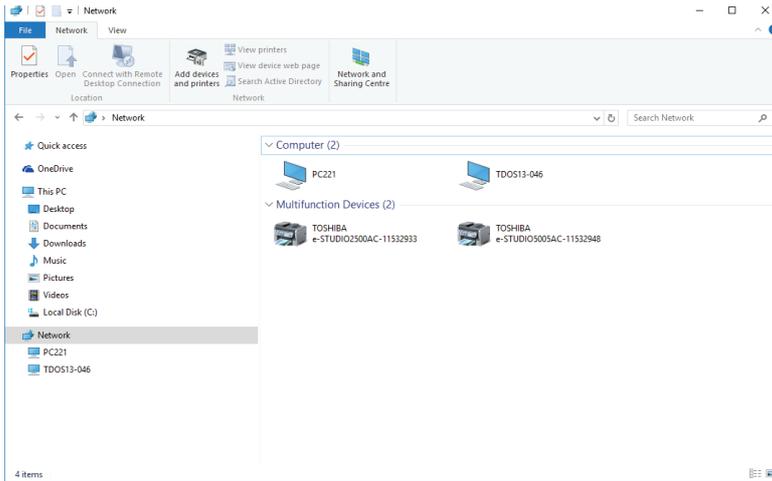
### 2 Click [Network discovery is turned off. Network computers and devices are not visible. Click to change]. Then select [Turn on network discovery and file sharing].



### 3 Click [Yes, turn on network discovery and file sharing for all public networks].



Connected computers and icons of the multifunction devices are displayed in the [Network] screen.



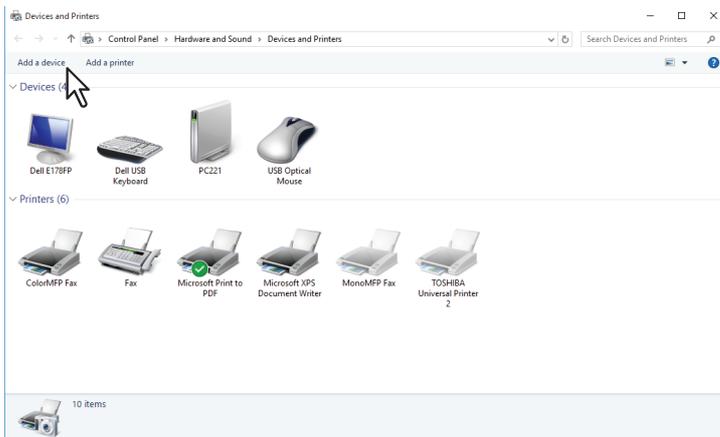
### 4 Open the printers folder.

Right-click [Start], then click [Control Panel] > [View devices and printers].

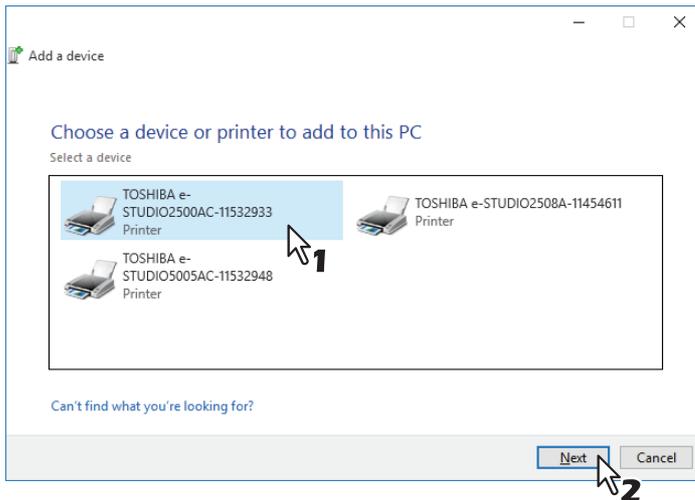
#### Tips

- For Windows 8.1 / Windows Server 2012, right-click in the lower left of the screen, then click [Control Panel] > [Devices and Printers].
- For Windows 7, click [Start] > [Devices and Printers].
- For Windows Vista / Windows Server 2008, click [Start] > [Control Panel] > [Hardware and Sound] > [Printers].

### 5 Click [Add a device].



## 6 Select the icon of the multifunction device of the equipment and click [Next].



- When you are using Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2012, the installation begins.
- When you are using Windows Vista or Windows Server 2008, [PnP Device Association] is displayed on the task bar. After clicking [PnP Device Association], the installation begins.

## 7 The installation is completed.

## Uninstalling Scan Driver and Utilities

---

You can uninstall the scan driver and utilities using the Uninstall a program function in Control Panel. For instructions on how to uninstall them, refer to the following section.

 P.154 “Uninstalling Client Software”

### Uninstalling WIA driver

- When you are using Windows Vista, Windows 7, Windows 10 or Windows Server 2008  
Open the [Network] folder as well as the installation procedure. Then right-click on this equipment and click [Uninstall]. Then the uninstallation is performed.
- When you are using Windows 8.1 or Windows Server 2012  
Open the [Devices and Printers] folder, right-click on this equipment, and then select [Remove device] from the menu displayed.

### Uninstalling TOSHIBA Office Scan Add-In

You can uninstall TOSHIBA Office Scan Add-In using Uninstall a program function in Control Panel. For instructions on how to uninstall them, refer to the following section.

 P.154 “Uninstalling Client Software”

# INSTALLING NETWORK FAX UTILITIES (Windows)

This chapter describes the installation of the network fax utilities.

<b>Before Installation</b> .....	<b>142</b>
Type of network fax utilities .....	142
System requirements .....	142
<b>Installing Network Fax Utilities</b> .....	<b>143</b>
<b>Installing Web Service Print</b> .....	<b>144</b>
<b>Uninstalling the Network Fax Software</b> .....	<b>145</b>
Uninstalling N/W-Fax driver .....	145
Uninstalling AddressBook Viewer .....	145

## Before Installation

---

This section describes the installation of the network fax utilities. Before installing them, read this section.

### ■ Type of network fax utilities

Install the following utilities to use the network fax functions.

#### **N/W-Fax driver**

The N/W-Fax driver enables you to set up send lists and send electronic documents from your client computer to one or more destinations. You print to the fax much in the same way that you would choose to print to a designated printer, which makes using the N/W-Fax driver quick and simple. You can select the fax properties. Fax properties are the attributes you can set to define sender and recipient information for processing fax jobs such as dialing options, sender information, fax resolution and page layout.

Other features include an easy-to-use fax scheduler that allows you to set up a date and time to transmit your fax. Cover page options are also provided. You can include a customized cover page with your fax transmission that can include sender and recipient fax information and a detailed message. You can easily maintain sender and contact information that can be printed on the cover pages.

#### **AddressBook Viewer**

With the AddressBook Viewer you can easily add or modify fax recipient names, fax numbers, and E-mail addresses to the Address Book. This utility allows you to manage recipients of the fax, select and display fax recipients from the Address Book, as well as recipient fax numbers and other contact information.

Additionally, AddressBook Viewer allows you to import or export address book data to or from other address book programs compatible to this equipment.

### ■ System requirements

To install the N/W-Fax driver and AddressBook Viewer on a Windows computer, the following is required.

- **Display resolution**  
1024 x 768 dots or more
- **Display color**  
High Color (16 bit) or higher is recommended
- **CPU**  
Pentium 133 MHz minimum (Pentium 266 MHz or faster recommended)
- **Memory**  
The required memory size for OS
- **OS**  
Windows Vista Service Pack 2  
Windows 7 (Service Pack1 recommended)  
Windows 8.1  
Windows 10  
Windows Server 2008 Service Pack 2  
Windows Server 2012

### □ When network fax utilities and AddressBook Viewer have been installed

If the N/W-Fax driver and AddressBook Viewer have been installed from another e-STUDIO Install Disc, uninstall them, then install again from the Install Disc.

When you uninstall the AddressBook Viewer, click [No] at the dialog box that displays the message to delete the settings for the AddressBook Viewer so that you can restore the settings after installing the new one.

# Installing Network Fax Utilities

Perform installation corresponding to your Windows computer.

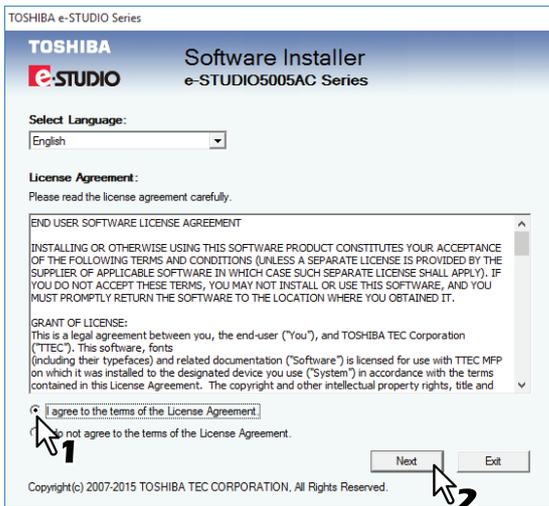
## Note

To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.

### 1 Insert the Install Disc into the disc drive.

If Software Installer does not automatically start, use the Explorer to open the e-STUDIO folder in the Install Disc and double-click “Setup.exe”.

### 2 Select [I agree to the terms of the License Agreement.] and click [Next].



To change the display language, select the desired language from the [Select Language] box.

### 3 Click [Fax Driver].



### 4 Confirm the list of the software to install and click [Install].

## Note

When you want to verify and/or change the SNMP settings to find the target TOSHIBA MFPs, see step 4 in the following section:

📖 P.26 “Procedure for Recommended Installation”

Since the subsequent procedure is the same as that for printer driver installation, the steps are omitted. See the following pages according to the connection environment.

📖 P.39 “Raw TCP/LPR printing”

📖 P.46 “SMB printing”

## Installing Web Service Print

---

You can install a N/W-Fax driver in Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012 using the WSD (Web Services on Devices) protocol. Since the installation procedure is the same as for printer drivers, it is omitted. When performing installation, see the following page:

 P.74 "Web Service Print"

## Uninstalling the Network Fax Software

---

The following instructions explain how to uninstall the N/W-Fax driver and AddressBook Viewer.

### ■ Uninstalling N/W-Fax driver

You can uninstall a N/W-Fax driver. Since the uninstallation procedure is the same as for printer drivers, it is omitted. When performing uninstallation, see the following page:

 P.82 “Uninstalling Printer Drivers”

### ■ Uninstalling AddressBook Viewer

You can uninstall AddressBook Viewer using Uninstall a program function in Control Panel. For instructions on how to uninstall them, refer to the following section.

 P.154 “Uninstalling Client Software”



## INSTALLING e-Filing BACKUP/RESTORE UTILITIES (Windows)

This chapter describes the installation of the e-Filing Backup/Restore utilities.

<b>Before Installation</b> .....	<b>148</b>
System requirements .....	148
<b>Installing e-Filing Backup/Restore Utilities</b> .....	<b>149</b>
<b>Uninstalling e-Filing Backup/Restore Utilities</b> .....	<b>151</b>

## Before Installation

---

This section describes the installation of the e-Filing Backup/Restore utilities. Before installing them, read this section.

### ■ System requirements

To install the e-Filing Backup/Restore Utility on a Windows computer, the following is required.

- **Display resolution**  
1024 x 768 dots or more
- **Display color**  
High Color (16 bit) or higher is recommended
- **CPU**  
Pentium 133 MHz minimum (Pentium 266 MHz or faster recommended)
- **Memory**  
The required memory size for OS
- **OS**  
Windows Vista Service Pack 2  
Windows 7 (Service Pack1 recommended)  
Windows 8.1  
Windows 10  
Windows Server 2008 Service Pack 2  
Windows Server 2012
- **Required software**
  - Internet Explorer 9.0 or later
  - Microsoft Edge
  - Firefox 38 or later
  - Chrome 45 or later

#### Notes

- The e-Filing Backup/Restore utility is not supported by 64-bit editions of the operating systems listed above.
- To backup/restore e-Filing data using e-Filing Backup/Restore utility, the FTP server option that can be set in the network settings of TopAccess must be enabled.

# Installing e-Filing Backup/Restore Utilities

Perform installation corresponding to your Windows computer.

## Notes

To perform installation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.

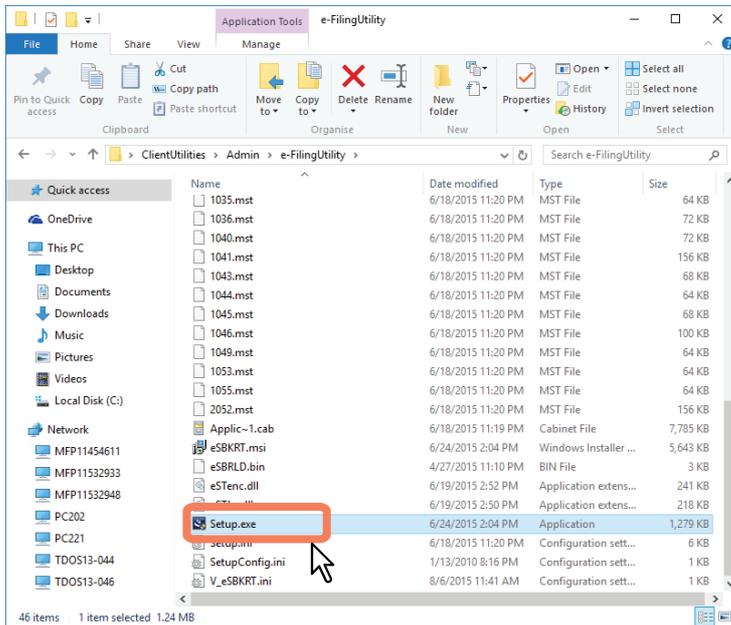
If Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012 is used, you can perform the installation by temporarily changing the user account following the procedure below.

- Open the “Admin\e-FilingUtility” folder in the Install Disc, and then double-click “Setup.exe”.
- When the [User Account Control] dialog box is displayed, enter an administrator password, and then click [Yes] ([OK]).

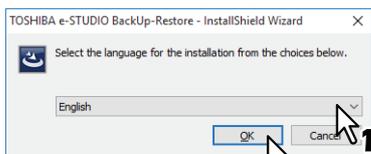
## 1 Insert the Install Disc into the disc drive.

When you insert the Install Disc into the disc drive, Software Installer may launch automatically. In this case, click [Exit] to close it and continue the operation.

## 2 Open “Admin\e-FilingUtility” folder and double-click “setup.exe”.



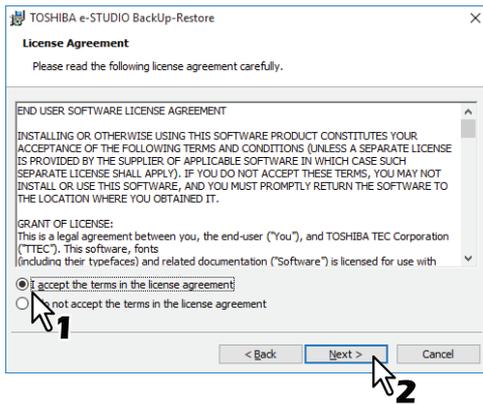
## 3 Select your language and click [OK].



The [InstallShield Wizard] dialog box appears.

## 4 Click [Next].

## 5 Select “I accept the terms in the license agreement” and click [Next].



## 6 Click [Next].

## 7 Click [Install].

## 8 Click [Finish].

The installation is completed.

### Note

The Installer may ask you to restart your computer. If it does, select “Yes”, I want to restart my computer now.” and click [Finish] to restart your computer.

## Uninstalling e-Filing Backup/Restore Utilities

---

You can uninstall e-Filing Backup/Restore utilities using the Uninstall a program function in Control Panel. For instructions on how to uninstall them, refer to the following section.

 P.154 “Uninstalling Client Software”



## INSTALLATION MAINTENANCE

This chapter describes how to uninstall and repair the client software using the set-up program.

<b>Uninstalling Client Software .....</b>	<b>154</b>
<b>Repairing Client Software .....</b>	<b>156</b>

# Uninstalling Client Software

The following describes how to uninstall client software.

## Notes

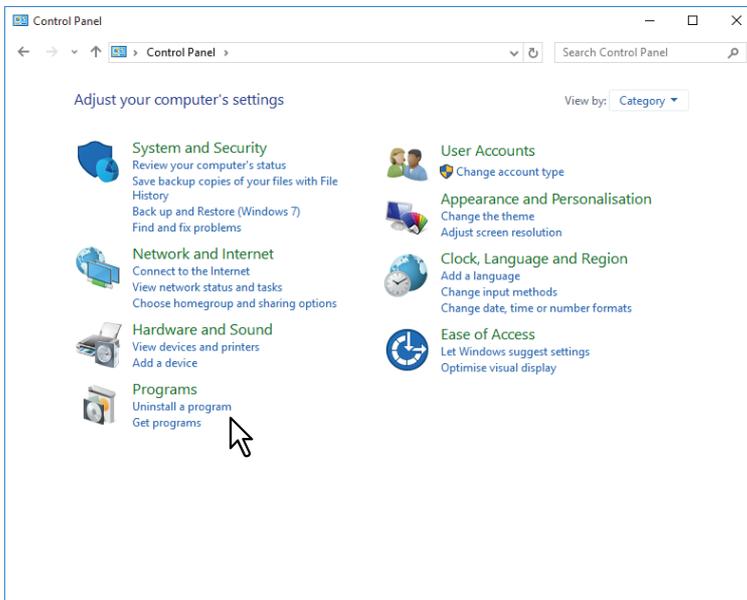
- The printer drivers and N/W-Fax driver cannot be uninstalled by the set-up program. For instructions on how to uninstall them, refer to the following section.  
P.82 “Uninstalling Printer Drivers”
- To perform uninstallation, you must log onto Windows with the “Administrator” account; this enables the installation and uninstallation of client software.

## 1 Open the [Uninstall a program] folder.

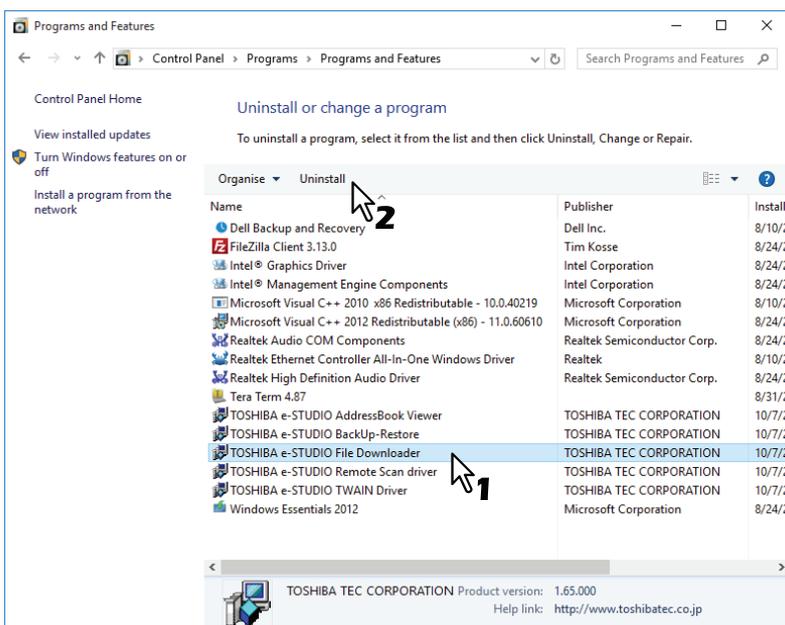
Right-click [Start], then click [Control Panel] > [Uninstall a program].

### Tips

- For Windows 8.1 / Windows Server 2012, from the setting charm, click [Control Panel] > [Uninstall a program].
- For Windows Vista / Windows 7 / Windows Server 2008, click [Start] > [Control Panel] > [Uninstall a program].



## 2 From the list, select the software you want to remove and click [Uninstall].



## 3 Click [Yes].

## 4 Click [Yes] to delete the setting files.



Deleting files starts.

### Note

If you want to reinstall the client software later, click [No] to have the setting files remain. You can restore the data and settings when you reinstall the client software.

## Repairing Client Software

When the client software will not work correctly, you can repair it.

The following describes an installation on Windows Vista. The procedure is the same when other versions of Windows are used.

### Notes

- The printer drivers, N/W-Fax driver, and WIA driver cannot be repaired by the set-up program. To repair them, uninstall them and install again.
- To repair the client software, you must log onto Windows with the “Administrator” account.

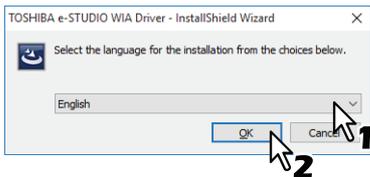
### 1 Insert the Install Disc into the disc drive.

When inserting the Install Disc, the Auto Play menu appears. Click [Open folder to view files] to open the software folder.

### 2 Open the software folder that you want to repair and double click the [setup.exe] icon.

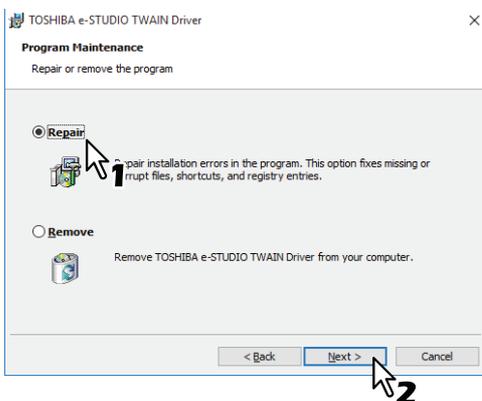
- To repair TWAIN Driver (for Windows computer 32-bit edition), locate “[Install Disc]:\Client\TWAIN\32bit\”.
- To repair TWAIN Driver (for Windows computer 64-bit edition), locate “[Install Disc]:\Client\TWAIN\64bit\”.
- To repair File Downloader, locate “[Install Disc]:\Client\FD\”.
- To repair Remote Scan Diver (for Windows computer 32-bit edition), locate “[Install Disc]:\Client\RS\32bit\”.
- To repair Remote Scan Driver (for Windows computer 64-bit edition), locate “[Install Disc]:\Client\RS\64bit\”.
- To repair AddressBook Viewer (for Windows computer 32-bit edition), locate “[Install Disc]:\Client\ADRBK\32bit\”.
- To repair AddressBook Viewer (for Windows computer 64-bit edition), locate “[Install Disc]:\Client\ADRBK\64bit\”.
- To repair TOSHIBA Office Scan Add-In, locate “[Install Disc]:\Admin\Add-In\”.

### 3 Select the language and click [OK].



### 4 Click [Next].

### 5 Select [Repair] and click [Next].



### 6 Click [Install].

Repairing files starts.

---

**7** Click [Finish] to close the wizard.



# 10

## **CAUTIONS AND RELATED MESSAGES REGARDING INSTALLATION (Windows)**

This chapter describes how to uninstall and repair the client software using the set-up program.

<b>Cautions before installation .....</b>	<b>160</b>
<b>Messages that may appear in installation .....</b>	<b>161</b>
<b>Cautions after installation .....</b>	<b>162</b>

## Cautions before installation

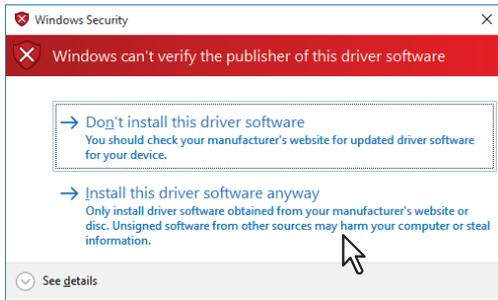
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- To perform installation for Universal Printer2 driver and other client software, you must log onto Windows with the “Administrator” account.
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and then continue.
- Even if you have logged on with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the installation by temporarily changing the user account.
- If Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012 is used, you can perform the installation from the installer by temporarily changing the user account following the procedure below.
  - Open the “e-STUDIO” folder in the Install Disc, and then double-click “Setup.exe”.
  - When the [User Account Control] dialog box is displayed, enter an administrator password, and then click [Yes] ([OK]).
- If Windows Vista / Windows 7 / Windows 8.1 / Windows 10 / Windows Server 2008 / Windows Server 2012 is used, you can perform the installation by temporarily changing the user account following the procedure below..
  - Click the file name link for the printer driver.
  - When the [User Account Control] dialog box is displayed, enter an administrator password, and then click [Yes] ([OK]).
- When all or any of the Remote Scan driver, TWAIN driver or WIA driver is installed in your computer in which Microsoft Office 2013 is installed, TOSHIBA Office Scan Add-In is installed automatically.
- When the Web Service printer driver is installed in Windows Vista / Windows Server 2008, the driver for Web Services Scanning is also installed together with the client software.

## Messages that may appear in installation

---

If the following message appears, click [Install this driver software anyway] to proceed with the installation.



## Cautions after installation

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- To perform uninstallation, you must log onto Windows with the “Administrator” account. Even if you have logged on with a user account other than “Administrator”, entering an administrator password upon display of the [User Account Control] dialog box enables you to perform the installation by temporarily changing the user account.
- Even when you have logged on Windows with the “Administrator” account, the [User Account Control] dialog box may appear. In this case, click a button for allowing the operation, such as [Continue], and then continue.
- Before using the printer driver for printing, configure the installed options of the equipment and department code (if required) on the printer driver. Refer to the **Printing Guide** for the instructions.

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FC-5506AC/6506AC/7506AC  
DP-5508A/6508A/7508A/8508A  
OME150059A0

**MULTIFUNCTIONAL DIGITAL COLOR SYSTEMS /  
MULTIFUNCTIONAL DIGITAL SYSTEMS**

**Software Installation Guide**

**e-STUDIO2000AC/2500AC**

**e-STUDIO2505AC/3005AC/3505AC/4505AC/5005AC**

**e-STUDIO2008A/2508A/3008A/3508A/4508A/5008A**

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**e-STUDIO5508A/6508A/7508A/8508A**

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