EPSON
EXCEED YOUR VISION

Advanced Printer Driver for South Asia Ver.4

Install Manual

Overview

An overview of the APD and the description of operating environment.

Installation and Setup

Descriptions from installation of the APD to making prints with the TM printer.

Silent Installation

Descriptions of the silent install.

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Rev. E

Cautions

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EPSON has been taking industry's initiatives with its own POS printer command system (ESC/POS). ESC/POS has a large number of commands including patented ones. Its high scalability enables users to build versatile POS systems. The system is compatible with all types of EPSON POS printers (excluding the TM-C100) and displays. Moreover, its flexibility makes it easy to upgrade the future. The functionality and the user-friendliness is valued around the world.

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For Safety

Key to Symbols

The symbols in this manual are identified by their level of importance, as defined below. Read the following carefully before handling the product.

CAUTION	Provides information that must be observed to avoid damage to your equipment or a malfunction.
NOTE	Provides important information and useful tips.

Restriction of Use

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive etc.; disaster prevention devices; various safety devices etc; or functional/precision devices etc, you should use this product only after giving consideration to including fail-safes and redundancies into your design to maintain safety and total system reliability. Because this product was not intended for use in applications requiring extremely high reliability/safety such as aerospace equipment, main communication equipment, nuclear power control equipment, or medical equipment related to direct medical care etc, please make your own judgment on this product's suitability after a full evaluation.

About this Manual

Aim of the Manual

This manual is aimed to provide the necessary information to install the EPSON TM printer driver (Advanced Printer Driver).

Manual Content

The manual is made up of the following sections:

Chapter 1	Overview
Chapter 2	Installation and Setup
Chapter 3	Silent Installation

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Overview

Introduction

Advanced Printer Driver (hereafter called APD) is a Windows printer driver for EPSON TM printers.

APD can monitor the status of the TM printer with Status API for use of POS embedded.

The APD environment that is already set up can be restored (silent install) on another computer.

The printers locally connected to the computers can be used as shared printers (Point & Print), by using network function of the OS.

Manual organization

Install Manual

This manual. Descriptions of the procedures from installing the APD to performing test print, adding printer drivers, and the silent install which is an automated APD installation.

TM Printer Manual

Descriptions of how to use the APD and its functions.

Descriptions of the specifications.

Status API Manual

Descriptions of how to get the status of the TM printer from the user application by using the Status API.

Devmode API / PRINTERINFO Manual

Descriptions of how to configure some printer functions on your application using the Devmode API. Descriptions of the PRINTERINFO Function of Windows.

Operating Environment

Computer

Any PC/AT compatible machine running any of the following Windows systems.

OS

- Microsoft Windows 7 SP1 (32bit/64bit)
- Microsoft Windows Vista SP2 (32bit/64bit) English version
- Microsoft Windows XP Professional SP3 (32bit) English version
- Microsoft Windows Server 2003 R2 SP2 (32bit/64bit)
- Microsoft Windows Server 2008 SP2 (32bit/64bit)
- Microsoft Windows Server 2008 R2

  The following service/software is supported in Windows Server 2003/2008 environment.

  Terminal Service
  Citrix XenApp5.0
- Microsoft Windows Embedded 7 (32bit/64bit)
- Microsoft Windows Embedded POSReady 2009
- Microsoft Windows Embedded for Point of Service 1.1 (32bit)
- Microsoft Windows Embedded Standard (32bit)
  / Microsoft Windows XP Embedded SP2 (32bit)

  The following components are required.

  Volume Shadow Copy Service
  System Restore Core
  OLE Dialog Interfaces
  Local Printing Support
  Task Scheduler (Required for USB driver installation)
  Primitive: DbgHelp (Required for USB driver installation)
  Communications Port (If the Computer has no serial or parallel port, one of them must be installed manually.)
  Primitive: Winhlp32 Required for help file browsing)

  After installing the components listed above, perform a dependency check for the components using the utility of the Windows XP Embedded (Target Designer). For more details, ask your OS distributors.

NOTE

OSs other than those listed above are not supported.

.NET Framework Version

For .NET environment, use in the following environment.

- .NET Framework 2.0 or later.
- For Windows Vista, .NET Framework 3.0 or later is installed.

Interface

The following interfaces are supported with the APD.

Interface	Descriptions
Parallel	-
Serial	-
USB	USB 2.0 compliant (Full-Speed 12 Mbps operation. High-Speed operation is not possible.)
Ethernet	10/100 Base-T (To configure the settings of IP Address, see the UB-E02/E03 Technical Reference Guide.)

Application

The APD supports direct printing from the Windows applications. No programming is required for printing directly from commercial applications, such as word processing or spread sheet.

When you want to receive TM printer statuses such as paper out errors at your application, use the Status API. In this case, you need to develop the applications to incorporate the monitoring function.

Differences Depending on the OS

The content of the descriptions of some operations in this book may be different depending on the OS. See the following.

Item	Description
Screens shown	Screens in Windows Vista are used for the descriptions in this manual.
Confirmation and setting of the printer driver	Windows 7 (Start) - (Control Panel) - (Hardware and Sound) - (Devices and Printers) Right click the printer driver, and select the (Printer properties). Windows Vista (Start) - (Control Panel) - (Hardware and Sound) - (Printers) Right click the printer driver, and select the (Properties). Windows XP (Start) - (Control Panel) - (Printers and Faxes) Right click the printer driver, and select the (Properties).
Delete a shared printer	Windows 7 (Start) - (Control Panel) - (Hardware and Sound) - (Devices and Printers) Windows Vista (Start) - (Control Panel) - (Hardware and Sound) - (Printers) Windows XP (Start) - (Control Panel) - (Printers and Faxes)
Add a shared printer	Windows 7 (Start) - (Control Panel) - (Hardware and Sound) - (Add a printer) Windows Vista (Start) - (Control Panel) - (Hardware and Sound) - (Add a printer) Windows XP (Start) - (Control Panel) - (Add a printer)
Server Properties	Windows 7 When selecting a printer driver to delete in the (Devices and Printers) screen, the (Print server properties) message appears on the tool bar. Windows Vista (Printers) - (File) - (Run as administrator) - (Server Properties) Windows XP (Printers and Faxes) - (File) - (Server Properties)
Uninstall a program	Windows 7 (Start) - (Control Panel) - (Uninstall a program) Windows Vista (Start) - (Control Panel) - (Uninstall a program) Windows XP (Start) - (Control Panel) - (Add or Remove Programs)

Restrictions

- When using the printer driver for EPSON Terminal Printers (laser printer, ink-jet printer and others) or EPSON printer window together with the APD, installation and uninstallation must be performed in the following order:

  [Installation]

  1. EPSON Terminal Printer driver
  2. APD

  [Uninstallation]

  1. APD
  2. EPSON Terminal Printer driver

If you want to overwrite the EPSON Terminal Printer driver after the APD is installed, uninstall the APD first and then overwrite the EPSON Terminal Printer driver.

- For a USB connection, the printer driver can be installed by Plug and Play after installing the APD; however, the printer driver cannot be added when the TM printer is offline (cover open, paper out, and so on.) When the printer recovers from the offline status, it will be added.
- The maximum number of printers that can be connected simultaneously through a USB connection is 8.
- When a Parallel interface TM printer is connected to Windows XP, a Plug and Play request window pops up and "EPSON TM-P2.01" is added in Other devices of the Device manager. Do not perform [Uninstall] or [Update Driver Software] for this device. When a Parallel interface TM printer is connected to the computer prior to the driver installation, the computer detects "EPSON TM-P2.01", but you should not uninstall or update, just click [Cancel]. (It is added to Other device in the Device manager, and deleted when the driver is installed.)
  When you connect a TM printer with parallel interface before installing the driver, "EPSON-P2.01" is detected. In such case, just click "Cancel" and not select "Uninstall" or "Update Driver Software". (It is added to "Other device" in the Device manager, however, automatically deleted after the driver is installed.)
- If you use a connection with interface conversion connector or interface expanded board, the operation is not guaranteed.

Installation and Setup

This chapter describes the procedures from the installation to execution of test print. The uninstallation procedure (page 29) and various maintenance procedures after installation (page 44) are also provided.

NOTE

The APD of version 4.07 or later supports 32 bit and 64 bit version OS.

CAUTION

- Install with Administrator privileges.
- Do not connect the TM printer, until installation of the APD completes.
- Close all running applications before the installation.

Notes on upgrading from APD 2.xx, 3.xx

APD 2.xx or 3.xx needs to be uninstalled in order to install APD 4.xx. Keep in mind the following points.

- When you install APD 4.xx to a computer on which APD 2.xx or 3.xx has been installed, the previous version is automatically uninstalled before the installation of APD 4.xx.
- Some printers do not support APD 4.xx. Make sure that your printer supports APD 4.xx. If you are using such printer and install APD 4.xx, the printer becomes unusable on your system.

Installation methods

The following methods are available to install the APD.

- ***Minimum Installation*** page 15

  This recommended installation option installs minimum features required for using the printer. This method reduces the number of files to be installed and the time for installation.

- ***Standard Installation*** page 23

  This installation option installs all features APD supports. Additionally, printer drivers for all models can be installed through Plug and Play feature. For the APD of version 4.07 or later, the printer drivers for both 32 bit and 64 bit version OS are installed.

- ***Custom installation*** page 31

  This installation option allows you to select and install only certain feature(s).
  For the APD of version 4.07 or later, you can select the 32 bit printer driver or 64 bit printer driver according to your OS environment.

This document also describes following topics which can be performed after installation.

- ***Plug and Play*** page 36

  TM printer with USB interface can be added as a printer device on a computer on which the APD is already installed (standard or custom install).

- ***Installation for sharing the printer*** page 38

  This method installs a printer to be shared (Point & Print).

- ***Upgrade installation of the APD*** page 50

  This allows you to perform upgrade installation of the APD of new version.

- ***Silent installation*** page 53

  This allows you to copy the APD environment to other computers.

Minimum Install

This recommended installation option installs minimum features required for using the printer. This method reduces the number of files to be installed and the time for installation.

Installation Flow

1. Installation (page 23)

2. Connecting the TM Printer (page 21)

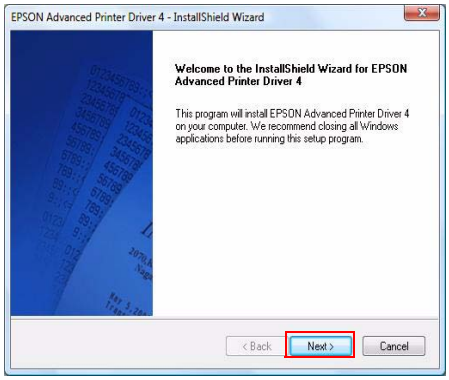
3. Print Test Page (page 22)

Installation

Follow the procedure below.

1 Double click the (APD) icon of installer and start the installation.

2 The Install ShieldWizard screen appears. Click the (Next) button.

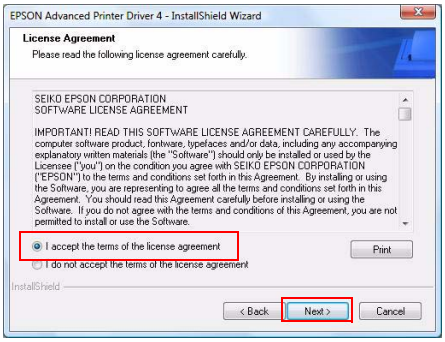


3 The “License Agreement” screen appears. Read the content and select "I accept the terms of the license agreement". Then click the (Next) button.

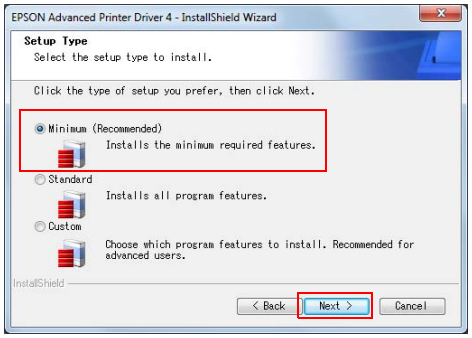
4 The “Setup Type” screen appears. Select "Minimum (Recommended)", then click the (Next) button.

5 The “Printer Configuration” screen appears. Click the (Add) button to select a model for which the driver is installed.

3 >



4 >



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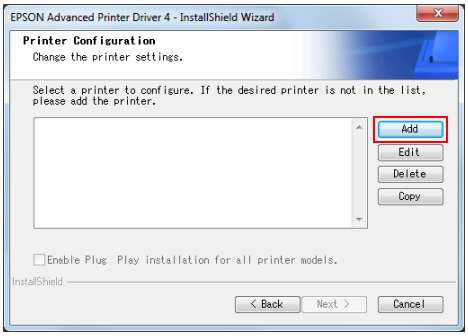


6 The “Add Printer” screen appears. Select the printer driver from the list of "Select Driver".

NOTE	The language can be checked in “Resident Character” that is printed in the self test. To start the self test, turn on the power button while holding down the FEED button with the paper roll cover closed. Continue holding down the FEED button until printing starts.

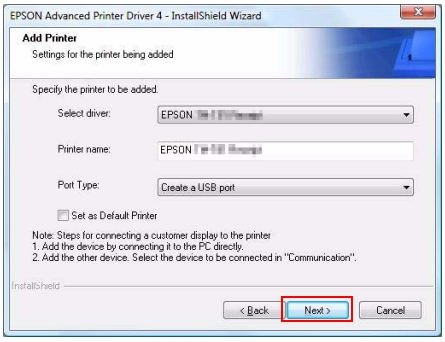
7 Configure the printer driver and port to use, and click the (Next) button.

Setting	Description
Printer name	The printer driver name. This is changeable. Do not use Unicode/2-byte characters for the name.
Port Type	Select the type of interface to connect the computer and printer. Create a Parallel port: Proceed to Step 8. Create a Serial port: Proceed to Step 9. Create an Ethernet port: Proceed to Step 10. Create a USB port: Proceed to Step 11.
Set as Default Printer	Check when configuring the printer as that normally used from the Windows applications.

8 The “Parallel Port Settings” screen appears. Configure the settings of the Parallel port and click the (Next) button. Proceed to Step 11.

Setting	Description
Printer name	The printer name you entered at Step 7 is displayed. This cannot be changed.
LPT Port	Specify the number of parallel port used for connecting the printer. Usually, the port number is automatically displayed and no setting is required.

7 >



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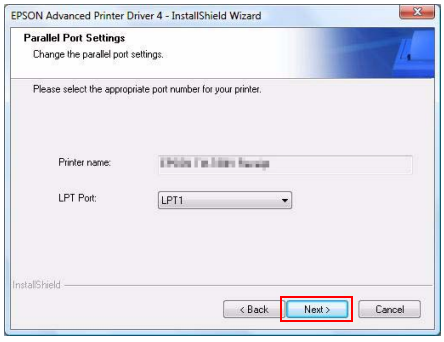
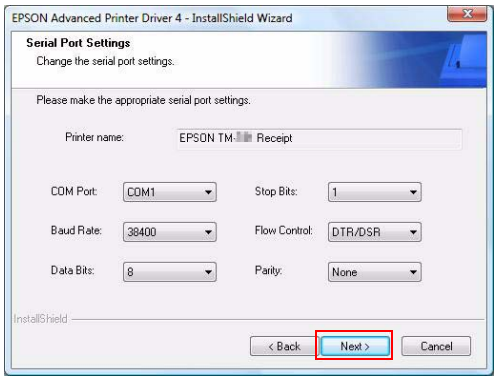
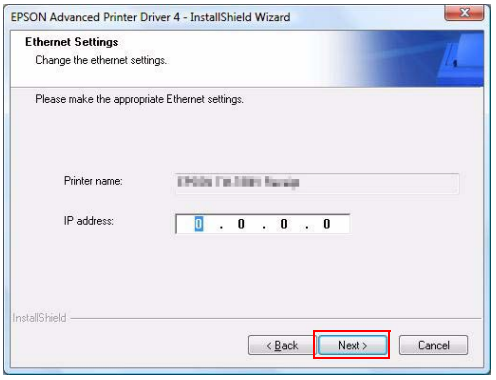


9 The "Serial Port Settings" screen appears. Configure the settings of the Serial port and click the (Next) button. Proceed to Step 11.



Setting	Description
Printer name	The printer name you entered at Step 7 is displayed. This cannot be changed.
COM Port	Specify the number of serial port used for connecting the printer.
Baud Rate	Specify the baud rate.
Data Bits	Specify the data bits.
Stop Bits	Specify the stop bits.
Flow Control	Specify the method of data flow between the computer and the printer.
Parity	Specify the parity.

10 The "Ethernet Settings" screen appears. Configure the IP Address of the TM printer and click the (Next) button. Proceed to Step 11.



Setting	Description
Printer name	The printer name you entered at Step 7 is displayed. This cannot be changed.
IP address	Enter the printer IP address.

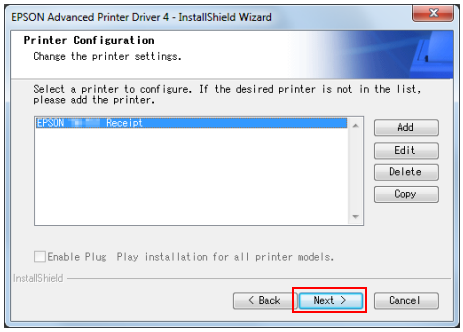
11 The display returns to the "Printer Configuration" screen. All the printer drivers, configured between Step 7 to Step 10, appear in the list.
To install multiple printer drivers, repeat Step 6 to Step 10. To install the same printer driver multiple times, click the (Copy) button.
When the settings of the printer drivers are finished, click the (Next) button.

12 The "Start Copying Files" screen appears. See "Current Settings" to confirm the installation settings and then click the (Next) button.

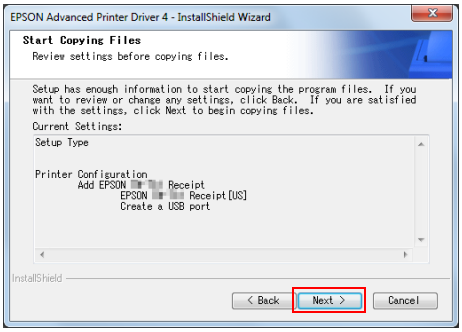
13 The APD is installed.

14 The "InstallShield Wizard Complete" screen appears. Click the (Finish) button to finish installation.

11 >



12 >



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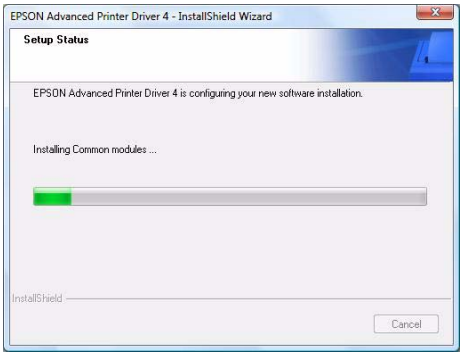

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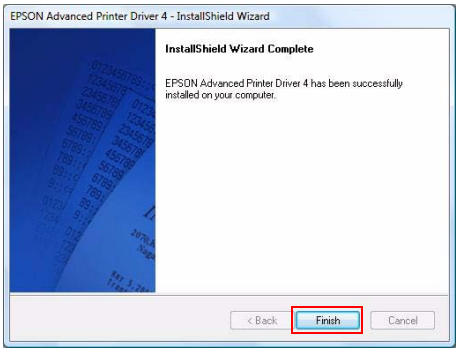


15 In (Start) - (Control Panel) - (Hardware and Sound) - (Printers), check that the specified printer driver is correctly installed. (Reference page of other OS.)

Connecting the TM Printer

Before connecting the TM printer, set the Handshaking setting of the printer to "Receive buffer full".
Connect the TM printer. For information on how to connect the TM printer and configure the DIPSW, see the User's Manual supplied with the TM printer or the Technical Reference Guide.

CAUTION

- The maximum number of printers that can be simultaneously connected to multiple computers is 8.
- Turn off the power of the TM printer and wait for more than 5 seconds before turning on the power.

Parallel (LPT) connection

When the printer is connected, the "New Hardware Detected. EPSON TM-P2.01" screen appears then the "Found New Hardware Wizard" screen. In this case, perform the following steps.

1. Click the (Next) button to search for the driver.
2. The driver is found and installed.

Serial (COM) connection

When using the serial connection, make sure the printer settings match the printer driver port settings (BaudRate/DataBits/Parity/StopBits/FlowControl).

Ethernet (10/100 Base-T) connection

When using Ethernet connection, check the IP address setting. To configure the IP address, use the Epson TM Netwingconfig Utility. For details, see the "UB-E02/E03 Technical Reference Guide."

USB connection

Do not connect the TM printer to the computer before installing the APD. In case you connect the TM printer first, delete the port drivers and reinstall the printer drivers without connecting the TM printer.

CAUTION

USB device requirements

- Maximum USB cable length is 5m, and 5 cascaded hubs maximum.
- Use the USB cable and the USB hubs compliant with USB2.0 specification (12Mbps).

NOTE

For USB power saving, see the C:\Program Files\EPSON\EPSON Advanced Printer Driver 4\TMUSB\readme_e.txt generated after the APD installation.

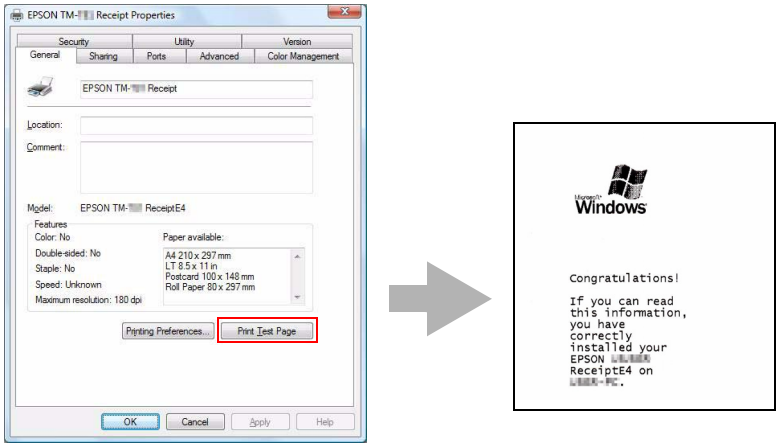
Print Test Page

After installing the APD, execute test print to check if the APD is properly installed and work normally.

Perform Print Test Page in the following procedures.

1 Open the Printers screen from (Start) - (Control Panel). Right click the printer driver you have installed and select (Properties) (Reference page of other OS.).

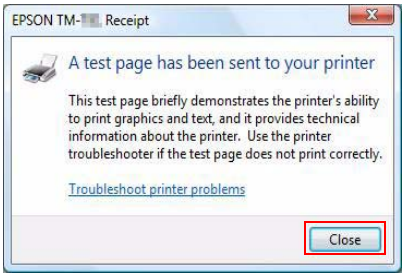
2 The Properties screen of the printer appears. Click the (Print Test Page) button to start test printing.



NOTE

- Print Test Page of the APD does not print all the data, unlike normal Print Test Page does.
- The Print Test Page prints characters and images as an image. The data volume is large for serial connection and may take longer to print compared with other interfaces.

3 The following screen appears. If the test print was output correctly, click the (Close) button. If the test print was not output correctly, click the (Troubleshoot...) button and perform troubleshooting in accordance with the Windows message.



Standard Install

This installation option installs all features APD supports. Additionally, printer drivers for all models can be installed through Plug and Play feature. For the APD of version 4.07 or later, the printer drivers for both 32 bit and 64 bit version OS are installed.

Installation Flow

1. Installation (page 23)

2. Connecting the TM Printer (page 21)

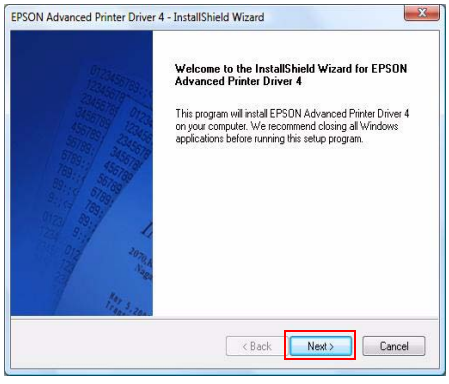
3. Print Test Page (page 22)

Installation

Follow the procedure below.

1 Double click the (APD) icon of installer and start the installation.

2 The Install ShieldWizard screen appears. Click the (Next) button.

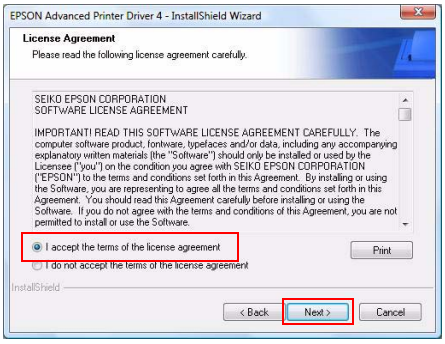


3 The “License Agreement” screen appears. Read the content and select "I accept the terms of the license agreement". Then click the (Next) button.

4 The “Setup Type” screen appears. Select "Standard", then click the (Next) button.

5 The “Printer Configuration” screen appears. When installing the printer driver as well as the APD, click the (Add) button.
To install driver(s) through Plug and Play feature after installing the APD, click the (Next) button to go to Step 10.

3 >



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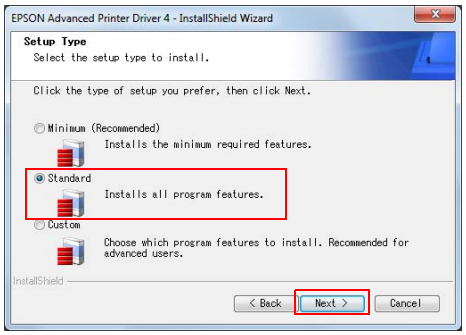
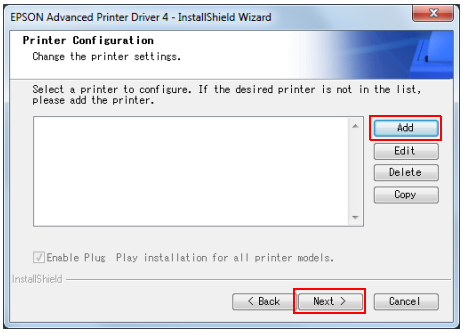


5 >



6 The “Add Printer” screen appears. Select the printer driver from the list of "Select Driver".

NOTE	The language can be checked in “Resident Character” that is printed in the self test. To start the self test, turn on the power button while holding down the FEED button with the paper roll cover closed. Continue holding down the FEED button until printing starts.

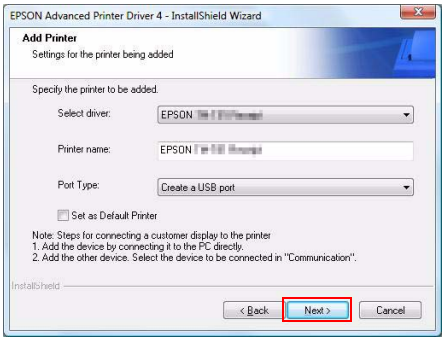
7 Configure the printer driver and port to use, and click the (Next) button.

Setting	Description
Printer name	The printer driver name. This is changeable. Do not use Unicode/2-byte characters for the name.
Port Type	Select the type of interface to connect the computer and printer. Create a Parallel port: Proceed to Step 8. Create a Serial port: Proceed to Step 9. Create an Ethernet port: Proceed to Step 10. Create a USB port: Proceed to Step 11.
Set as Default Printer	Check when configuring the printer as that normally used from the Windows applications.

8 The “Parallel Port Settings” screen appears. Configure the settings of the Parallel port and click the (Next) button. Proceed to Step 11.

Setting	Description
Printer name	The printer name you entered at Step 7 is displayed. This cannot be changed.
LPT Port	Specify the number of parallel port used for connecting the printer. Usually, the port number is automatically displayed and no setting is required.

7 >



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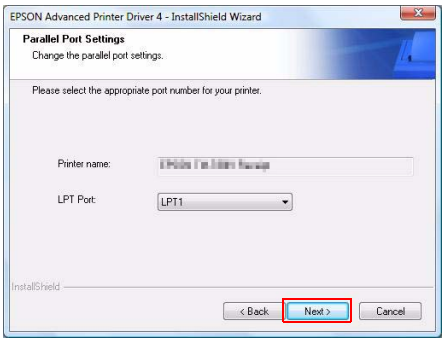
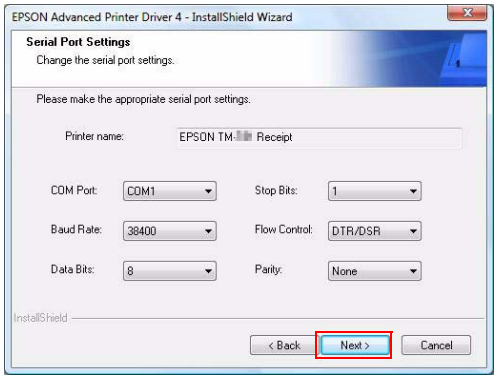
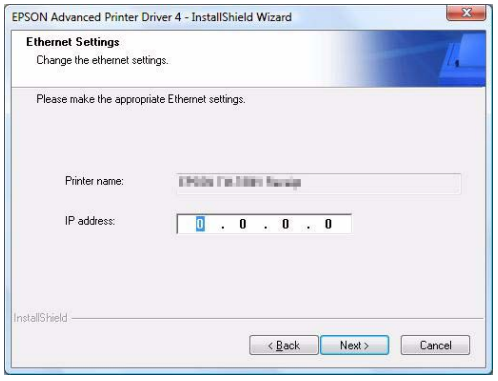


9 The "Serial Port Settings" screen appears. Configure the settings of the Serial port and click the (Next) button. Proceed to Step 11.



Setting	Description
Printer name	The printer name you entered at Step 7 is displayed. This cannot be changed.
COM Port	Specify the number of serial port used for connecting the printer.
Baud Rate	Specify the baud rate.
Data Bits	Specify the data bits.
Stop Bits	Specify the stop bits.
Flow Control	Specify the method of data flow between the computer and the printer.
Parity	Specify the parity.

10 The "Ethernet Settings" screen appears. Configure the IP Address of the TM printer and click the (Next) button. Proceed to Step 11.



Setting	Description
Printer name	The printer name you entered at Step 7 is displayed. This cannot be changed.
IP address	Enter the printer IP address.

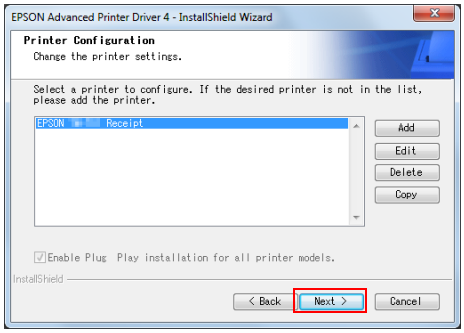
11 The display returns to the "Printer Configuration" screen. All the printer drivers, configured between Step 7 to Step 10, appear in the list.
To install multiple printer drivers, repeat Step 6 to Step 10. To install the same printer driver multiple times, click the (Copy) button.
When the settings of the printer drivers are finished, click the (Next) button.

12 The "Start Copying Files" screen appears. See "Current Settings" to confirm the installation settings and then click the (Next) button.

13 The APD is installed.

14 The "InstallShield Wizard Complete" screen appears. Click the (Finish) button to finish installation.

11 >



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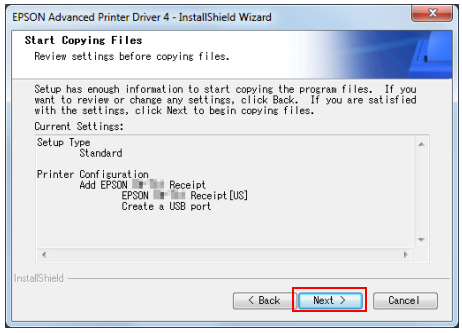

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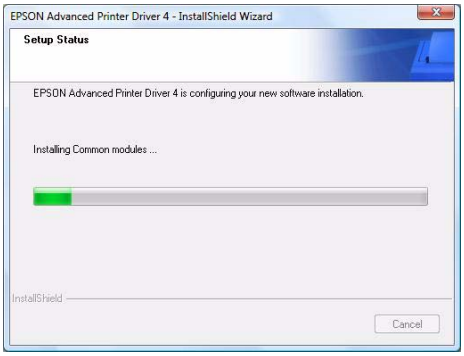

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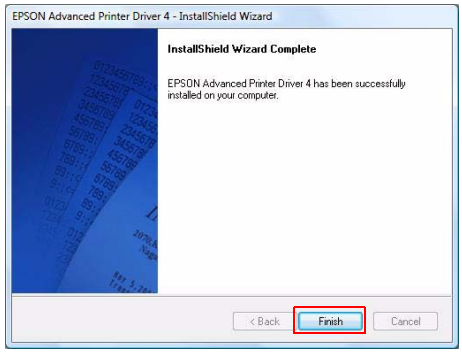
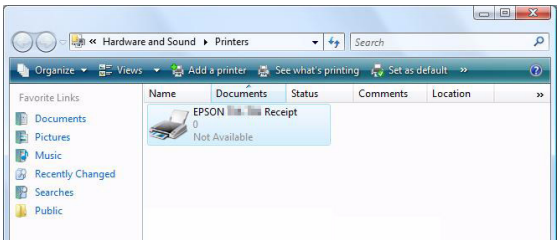


15 When printer drivers are added at Step 5, confirm that the printer drivers are installed in (Hardware and Sound) - (Printers) from (Start) - (Control Panel) (Reference page of other OS.).
When you have not added printer drivers at Step 5, no printer drivers are displayed in the (Printers).



Uninstallation

Uninstall everything related to APD (port drivers, printer drivers, and so on).

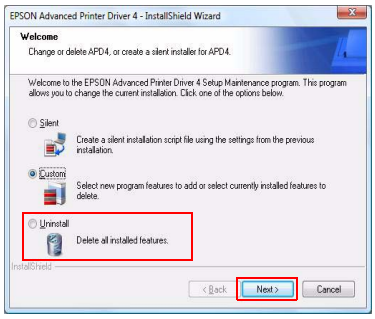
> **NOTE** The APD has the silent uninstallation function that enables you to uninstall without displaying any screens. For more details, see "/uninstall : Silent Uninstallation" on page 61.)

> **CAUTION** Do not uninstall printer drivers directly from [Start] - [Control Panel] - [Hardware and Sound] - [Printers] (Reference page of other OS.). Even if the icon (the printer driver) disappeared from the screen, APD is not uninstalled. To uninstall the printer driver, see "Uninstalling the printer driver" on page 47.

Follow the procedure below to uninstall the APD.

1. End all the other operations on the computer.
2. Select from (Start) - (All Programs) - (EPSON) - (EPSON Advanced Printer Driver 4) and open (Change or delete APD4, or create a silent installer for APD4.)
3. The "Welcome" screen appears. Select "Uninstall", then click the (Next) button.
4. The uninstallation confirmation screen appears. Click the (Yes) button.
5. The APD is uninstalled.

3 >



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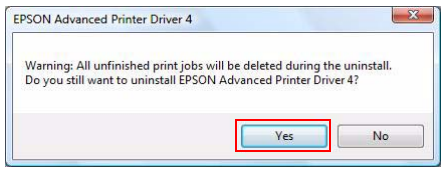

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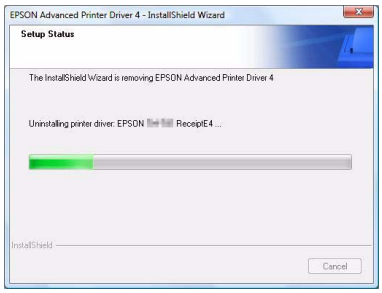
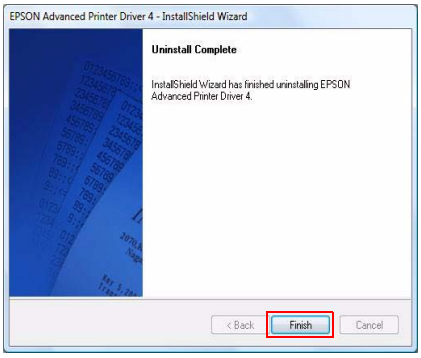


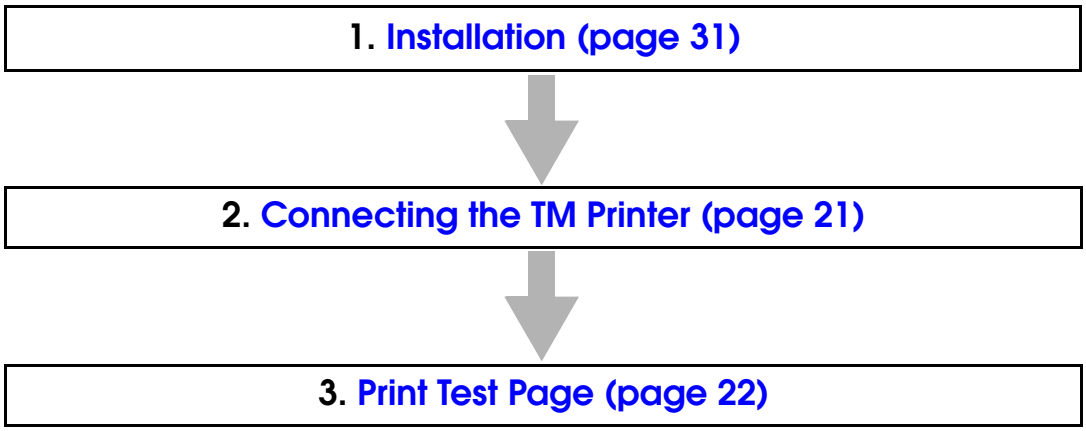
6 The "Uninstall Complete" screen appears. Click the (Finish) button to finish uninstallation.



Custom Install

In the custom installation, you can select certain features to install. Additionally, you can select driver version from 32 or 64 bit depending on your OS environment for the APD 4.07 or later.

Installation Flow



Installation

Follow the procedure below.

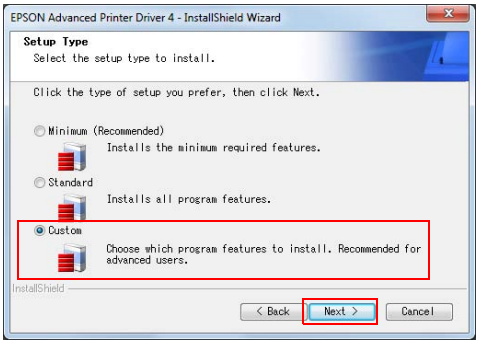
1. Double click the (APD) icon of installer and start the installation.
2. The InstallShield Wizard screen appears. Then click the (Next) button.
3. The "License Agreement" screen appears. Read through it and if you accept its terms, select "I accept the terms of the license agreement" and click the (Next) button.

4 The “Setup Type” screen appears. Then select "Custom" and click the (Next) button.

5 The “Select Features” screen appears. Click the (Add) button.
To install a driver through Plug and Play feature after installing the APD, check “Enable Plug & Play installation for all printer models.” and click the (Next) button to go to Step 13.

Setting		Description
Enable Plug & Play installation for all printer models.	Unchecked (default)	Only drivers for selected models are installed.
	Checked	Drivers for all models are installed. You can install other models’ drivers through Plug and Play feature after installing the APD.

4 >



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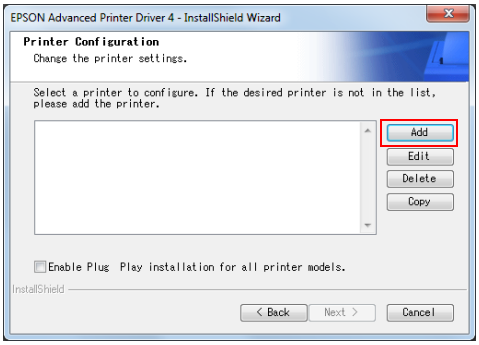


6 The “Add Printer” screen appears. Select the printer driver from the list of "Select Driver".

NOTE	The language can be checked in “Resident Character” that is printed in the self test. To start the self test, turn on the power button while holding down the FEED button with the paper roll cover closed. Continue holding down the FEED button until printing starts.

7 Configure the printer driver and port to use, and click the (Next) button.

Setting	Description
Printer name	The printer driver name. This is changeable. Do not use Unicode/2-byte characters for the name.
Port Type	Select the type of interface to connect the computer and printer. Create a Parallel port: Proceed to Step 8. Create a Serial port: Proceed to Step 9. Create an Ethernet port: Proceed to Step 10. Create a USB port: Proceed to Step 11.
Set as Default Printer	Check when configuring the printer as that normally used from the Windows applications.

8 The "Parallel Port Settings" screen appears. Configure the settings of the Parallel port and click the (Next) button. Proceed to Step 11.

Setting	Description
Printer name	The printer name you entered at Step 7 is displayed. This cannot be changed.
LPT Port	Specify the number of parallel port used for connecting the printer. Usually, the port number is automatically displayed and no setting is required.

9 The "Serial Port Settings" screen appears. Configure the settings of the Serial port and click the (Next) button. Proceed to Step 11.

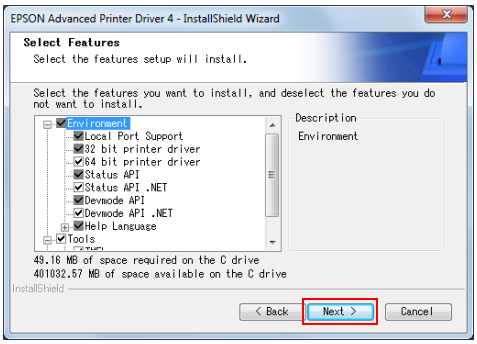
Setting	Description
Printer name	The printer name you entered at Step 7 is displayed. This cannot be changed.
COM Port	Specify the number of serial port used for connecting the printer.
Baud Rate	Specify the baud rate.
Data Bits	Specify the data bits.
Stop Bits	Specify the stop bits.
Flow Control	Specify the method of data flow between the computer and the printer.
Parity	Specify the parity.

10 The "Ethernet Settings" screen appears. Configure the IP Address of the TM printer and click the (Next) button. Proceed to Step 11.

Setting	Description
Printer name	The printer name you entered at Step 7 is displayed. This cannot be changed.
IP address	Enter the printer IP address.

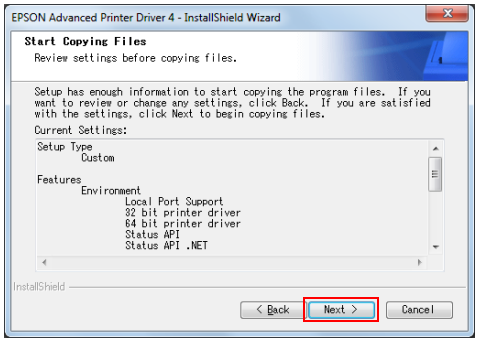
11 The display returns to the "Printer Configuration" screen. All the printer drivers, configured between Step 6 to Step 10, appear in the list.
To install multiple printer drivers, repeat Step 5 to Step 10. To install the same printer driver multiple times, click the (Copy) button.
When the settings of the printer drivers are finished, click the (Next) button.

12 The "Select Features" screen appears. Select the features of the APD you want to install, and then click the (Next) button. The following features are available.



Features		Description
Environment	32 bit printer driver	Supports EPSON printer driver for 32 bit version OS. Selectable when installing from 64 bit version OS.
	64 bit printer driver	Supports EPSON printer driver for 64 bit version OS. Selectable when installing from 32 bit version OS.
	Status API .NET	Supports Status API in .NET environment.
	Devmode API .NET	Supports Devmode API in .NET environment.
	Help Language	Shows the Help in selected language.
Tools	TMFLogo	Installs the TM Flash Logo Setup Utility Ver.3 that allows you to save bitmapped images to the TM printer.
Add a shortcut to the Start menu.		Shortcut icon to the APD will be added in the Start menu. Default setting : checked

13 The "Start Copying Files" screen appears. See "Current Settings" to confirm the settings to be installed and then click the (Next) button.



14 The APD is installed.

15 The "InstallShield Wizard Complete" screen appears. When you click the (Finish) button, the installation ends.

16 In (Start) - (Control Panel) - (Hardware and Sound) - (Printers), check that the specified printer driver is correctly installed. (Reference page of other OS.)

Plug and Play

Using Windows Plug and Play function, a printer driver can be easily installed on a computer on which the APD is already installed.

CAUTION

- The Plug and Play function is available only for the TM printer with the USB interface.
- If “Enable Plug & Play installation for all printer models” is not checked during minimum or custom installation, only the drivers for the installed models can be installed.

Installation Flow

1. Connecting the TM Printer (page 37)
2. Installing the printer driver (page 37)
3. Print Test Page (page 22)

Connecting the TM Printer

Connect the TM printer following the procedure below.

1 Check that "Receive buffer full" is set as a busy condition of the printer.

2 Connect the TM printer.

NOTE

- If you inadvertently connect the TM printer to the computer before installing the APD, delete the corresponding port driver and then, without connecting the TM printer, reinstall the printer driver.
- For information on how to connect the TM printer and check the DIP switch setting, see the User's Manual supplied with the TM printer or the Technical Reference Guide.

CAUTION

- The maximum number of printers that can be simultaneously connected to multiple computers is 8.
- Turn off the power of the TM printer and wait for more than 5 seconds before turning on the power.
- USB device requirements
  - ∗ Maximum USB cable length is 5m, and 5 cascaded hubs maximum.
  - ∗ Use the USB cable and the USB hubs compliant with USB2.0 specification (12Mbps).

For details, see the C:\Program Files\EPSON\EPSON Advanced Printer Driver 4\TMUSB \readme_e.txt generated after the APD installation.

Installing the printer driver

The printer driver is automatically installed when the connected printer is turned on.
The following message appears in the lower right of the computer screen.

CAUTION

The printer driver cannot be added when the TM printer is offline (cover open, paper out, and so on.) When it recovers from the offline status, the printer driver will be added.

Shared Printer

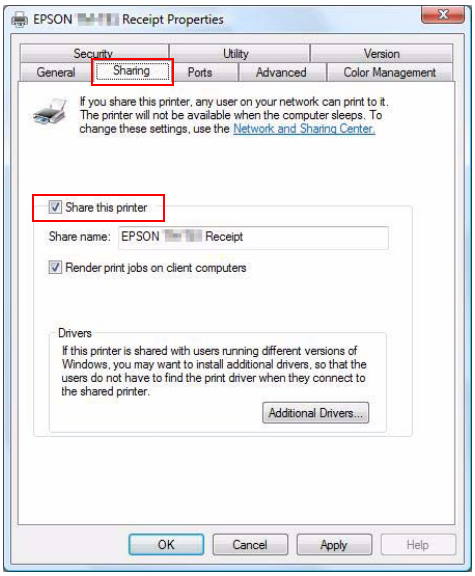
APD4 supports shared printer (Point&Print). This section describes how to install a shared printer into a client computer.
The uninstallation procedure is also provided.

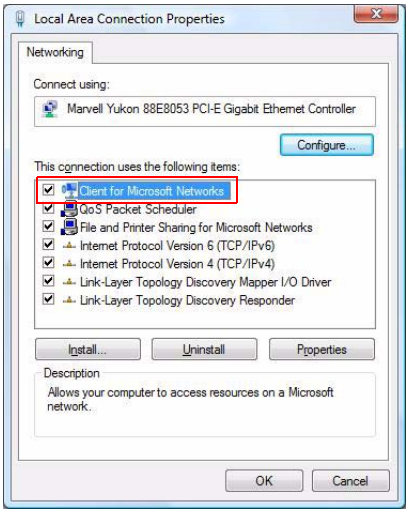
> **NOTE** When you install both 32 bit and 64 bit printer drivers on a server, the shared printer environment can be provided for clients using 32 bit and 64 bit version OS.
> For example, if the 32 bit driver is prepared on a 64 bit server, the server can provide the driver for 32 bit clients.

Installation

Before installing the printer to be shared, check the followings.

- Make sure the printer is set for sharing on a server to which the printer to be shared is connected.
- Make sure Client for Microsoft Networks is installed on a server and a client computer on which the APD will be installed.





> **NOTE** When more than one user uses one client computer, each user must install Client for Microsoft Networks.

Follow the procedures below to install the shared printer on the client computer.

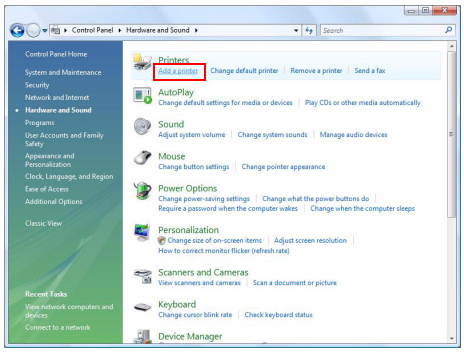
1. From (Start) - (Control Panel) - (Hardware and Sound), select (Add a printer). (Reference page of other OS.)

2. The "Choose a local or network printer" screen appears. Select (Add a network, wireless or Bluetooth printer).

3. The "Select a printer" screen appears. Select a printer to be shared on the displayed list, and click the (Next) button.

4. The selected shared printer is installed.

1 >



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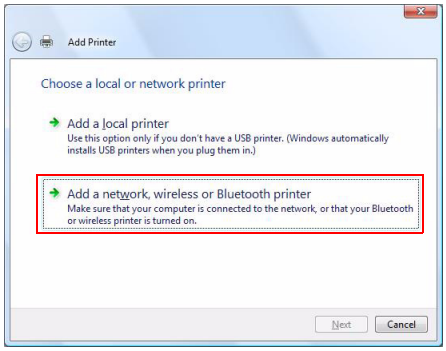

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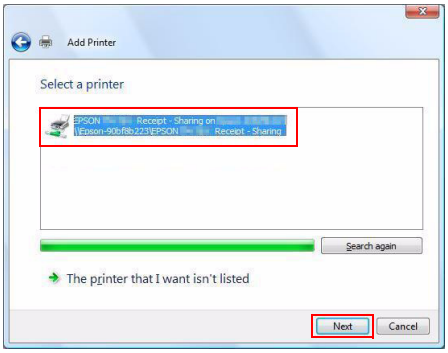

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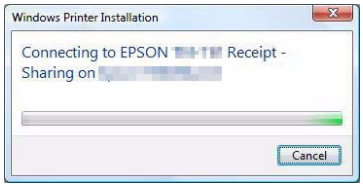
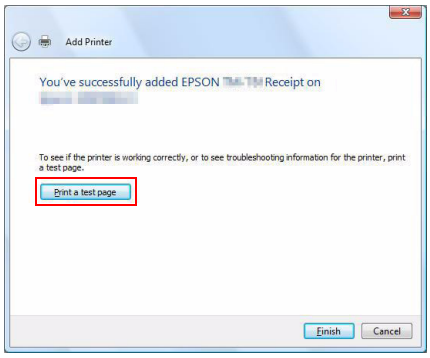


5 Click the (Print a test page) button to check if the printer functions normally.

6 The following screen appears. If the test print was output correctly, click the (Close) button. If the test print was not output correctly, click the (Troubleshoot...) button and perform troubleshooting in accordance with the Windows message.

7 Click the (Finish) button to finish the installation.

5 >



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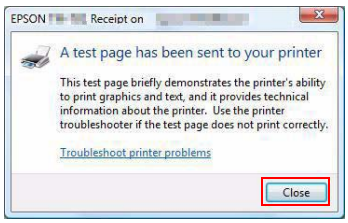
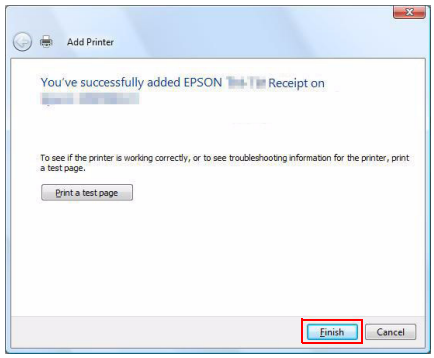


7 >



8 In (Start) - (Control Panel) - (Hardware and Sound) - (Printers), check that the specified printer driver is correctly installed. (Reference page of other OS.)

Uninstallation

This section describes how to uninstall a shared printer from a client computer.

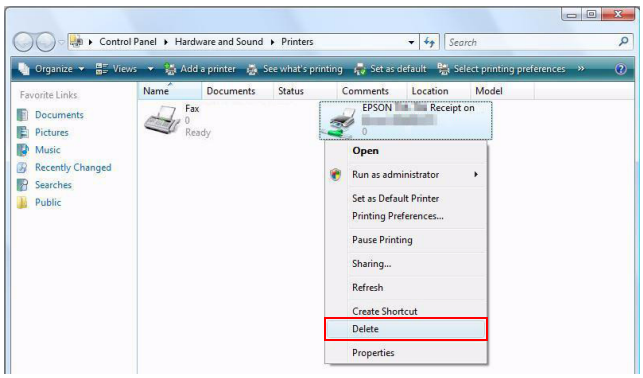
- Uninstall the shared printer page 41
- Uninstall the APD page 42

Uninstalling the shared printer

Follow the procedures below to uninstall the shared printer.

1 From (Start) - (Control Panel) - (Hardware and Sound), select (Printers). (Reference page of other OS.)

2 Right click on the printer driver to be deleted and select (Delete).



Uninstalling the APD

Follow the procedures below to uninstall the shared printer.

> **CAUTION** Uninstallation of the APD must be executed by an administrator.
> A normal user needs an administrator's password to execute the uninstallation.

Uninstall the APD. This should be made by the user having administrator privilege. For more details about uninstallation, see "Uninstallation" on page 29.

When performing the uninstallation on a computer on which the APD is not installed, delete the printer in the print server property. Follow the procedure below.

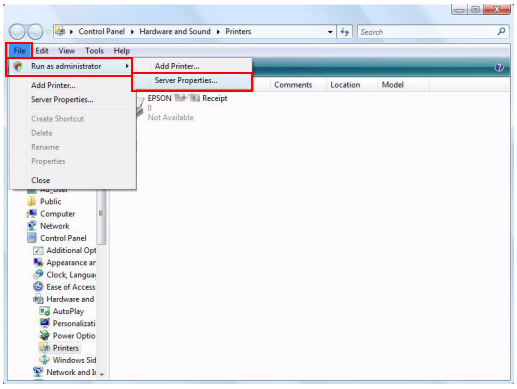
1. Uninstall all the shared printers. See"Uninstalling the shared printer" on page 41.

2. From (Start) - (Control Panel) - (Hardware and Sound), select (Printers). (Reference page of other OS.)

3. From (File) - (Run as administrator), select (Server Properties). (Reference page of other OS.)

4. The "Print Server Properties" screen appears.
   Select a printer driver to delete in the (Drivers) tab, and click the (Remove) button.

3 >



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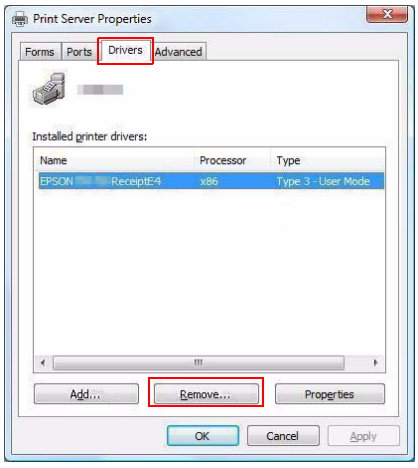


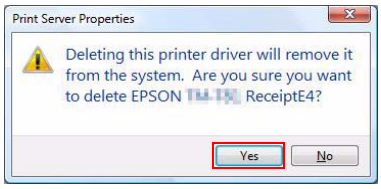
5 The "Remove Driver And Package" screen appears. Select "Remove driver only," and click the (OK) button.

For Windows XP, the screen in Step 5 does not appear. Go to Step 6.

6 The "Print Server Properties" screen appears. Click the (Yes) button to delete the printer driver selected in Step 4.

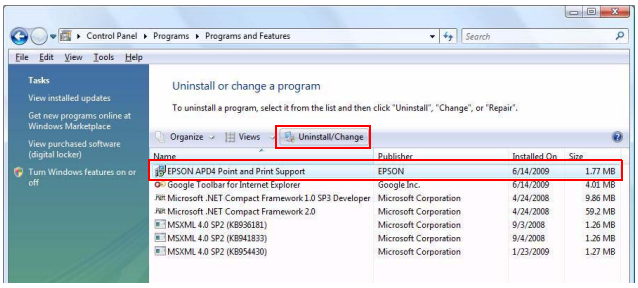
5 >

6 >



7 From (Start) - (Control Panel), select (Uninstall a program). (Reference page of other OS.)

8 Select "EPSON APD4 Point and Print Support," and click the (Uninstall) button to delete "EPSON APD4 Point and Print Support," and uninstallation of the APD is completed.



Maintenance after Installing the APD

Maintenance procedures after the APD is installed.

- Adding the printer driver
- Uninstalling the printer driver
- Replacing a printer
- Changing the port settings of the printer driverr
- Upgrade installing the APD

Adding the printer driver

You can add the printer driver you want to use among drivers for all models by following the steps below.

> **CAUTION** You cannot add the printer drivers directly from [Start] - [Control Panel] - [Hardware and Sound] - [Printers]. (Reference page of other OS.)

1. If "Enable Plug & Play installation for all printer models" is not checked during minimum or custom installation, double-click the icon of installer for the APD.
   If the APD is installed through standard installation, go to (Start) - (All Programs) - (EPSON) - (EPSON Advanced Printer Driver 4) - (Change or delete APD4, or create a silent installer for APD4.)

2. The "Welcome" screen appears. Then select "Custom" and click the (Next) button.

3. The "Printer Configuration" screen appears. Click the (Add) button to select the model to install.

4 The "Add Printer" screen appears. Configure the printer driver and port to use, and click the (Next) button.

Setting	Description
Select driver	Select the printer driver to be installed.
Printer name	The printer driver name. This is changeable. Do not use Unicode/2-byte characters for the name.
Communication	Select the type of interface to connect the computer and printer. Create a Parallel port: Proceed to Step 5. Create a Serial port: Proceed to Step 6 Create an Ethernet port: Proceed to Step 7. Create a USB port: Proceed to Step 8.
Set as Default Printer	Check when configuring the printer as that normally used from the Windows applications.

5 The "Parallel Port Settings" screen appears. Configure the settings of the Parallel port and click the (Next) button. Proceed to Step 8.

Setting	Description
Printer name	The printer name you entered at Step 4 is displayed. This cannot be changed.
LPT Port	Specify the number of parallel port used for connecting the printer. Usually, the port number is automatically displayed and no setting is required.

6 The "Serial Port Settings" screen appears. Configure the settings of the Serial port and click the (Next) button. Proceed to Step 8.

Setting	Description
Printer name	The printer name you entered at Step 4 is displayed. This cannot be changed.
COM Port	Specify the number of serial port used for connecting the printer.
Baud Rate	Specify the baud rate.
Data Bits	Specify the data bits.
Stop Bits	Specify the stop bits.
Flow Control	Specify the method of data flow between the computer and the printer.
Parity	Specify the parity.

7 The "Ethernet Settings" screen appears. Configure the IP Address of the TM printer and click the (Next) button. Proceed to Step 8.

Setting	Description
Printer name	The printer name you entered at Step 4 is displayed. This cannot be changed.
IP address	Enter the printer IP address. To find the information about IP Address of the TM printer, see the Technical Reference Guide of TM-T81.

8 The display returns to the "Printer Configuration" screen. All the printer drivers, configured between Step 4 to Step 7, appear in the list.
To install multiple printer drivers, repeat Step 3 to Step 7. To install the same printer driver multiple times, click the (Copy) button.
When the settings of the printer drivers are finished, click the (Next) button.

9 The "Select Features" screen appears. Select the features of the APD you want to install, and then click the (Next) button. The following features are available.

Features		Description
Environment	32 bit printer driver	Supports EPSON printer driver for 32 bit version OS. Selectable when installing from 64 bit version OS.
	64 bit printer driver	Supports EPSON printer driver for 64 bit version OS. Selectable when installing from 32 bit version OS.
	Status API .NET	Supports Status API in .NET environment.
	Devmode API .NET	Supports Devmode API in .NET environment.
	Help Language	Shows the Help in selected language.
Tools	TMFLogo	Installs the TM Flash Logo Setup Utility Ver.3 that allows you to save bitmapped images to the TM printer.
Add a shortcut to the Start menu.		Shortcut icon to the APD will be added in the Start menu. Default setting : checked

10 The "Start Copying Files" screen appears. Confirm the printer driver to be installed which is displayed in "Current Settings" and then click the (Next) button.

11 The printer driver added in the list at Step 8 is installed.

12 The "Maintenance Complete" screen appears. When you click the (Finish) button, the process of installing the printer driver ends.

Uninstalling the printer driver

To uninstall printer driver(s) out of use when multiple drivers are installed, follow the steps below.

> **CAUTION** To uninstall all printer drivers, refer to "Uninstallation" on page 29.

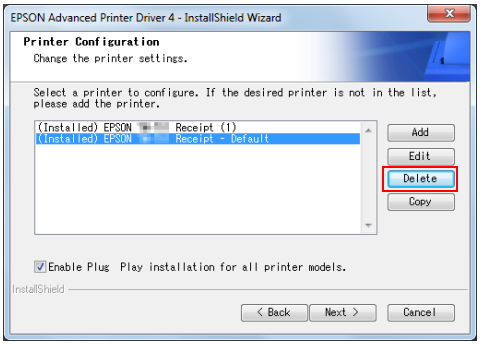
1. Select from (Start) - (All Programs) - (EPSON) - (EPSON Advanced Printer Driver 4) and open (Change or delete APD4, or create a silent installer for APD4.)

2. The "Welcome" screen appears. Then select "Custom" and click the (Next) button.

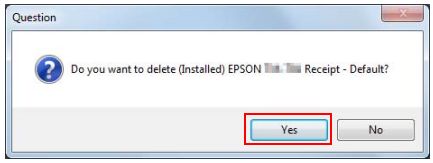
3. The "Printer Configuration" screen appears. Select the printer diver from the list which you want to remove, and click the (Delete) button.

4. A screen appears to confirm the remove action. Click the (Yes) button.

3 >



4 >



5. The display returns to the "Printer Configuration" screen. Click the (Next) button.

6. The "Select Features" screen appears.
Features installed on your computer are automatically checked. Uncheck the feature to uninstall.Click the (Next) button.

7 The “Start Copying Files” screen appears. Confirm the printer driver to be removed which is displayed in "Current Settings" and then click the (Next) button.

8 The printer driver removed in Step 3 to Step 5 will be removed.

9 The “Maintenance Complete” screen appears. When you click the (Finish) button, the process of uninstalling the printer driver ends.

Replacing a printer

When you replace the TM printers equipped with the same interface, beware of the following.

- Set the new TM printer’s DIPSW as same as the previous TM printer’s settings regardless of interface.
- If the memory switch is changed, see the User's Manual supplied with the TM printer or the Technical Reference Guide.

Configure the following settings for each interface.

Interface	Description
Parallel	No configuration is required after replacement.
Serial	With the DIPSW settings, if the settings of the Serial connection is same as previous TM printer, no configuration is required after replacement.
USB	No configuration is required after replacement.
Ethernet	When the new TM printer's IP Address is set as same as the previous TM printer's settings, no configuration is required.

Changing the port settings of the printer driver

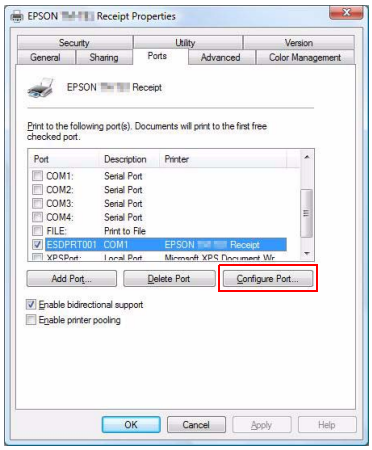
Change the port setting of the printer driver to match the communication setting of the printer. Serial setting of the serial connection and the IP Address of the Ethernet connection can be changed. The port settings of the Epson port will be changed in this procedure.

1 Select from (Start) - (Control Panel) - (Hardware and Sound) and open (Printers) and then right click the target printer driver and select (Properties) (Reference page of other OS.).

2 The property screen of the TM printer appears. Select the (Ports) tab and then click the (Configure Port...) button.

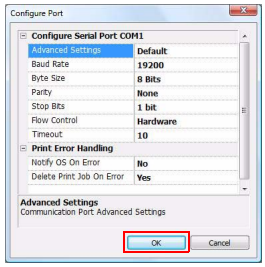
3 The Configure Port screen appears. Set a configure port while referring to the screen and click the (OK) button.

2 >

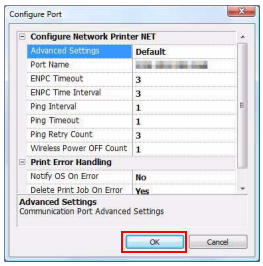


3 >

Serial



Ethernet



4 The display returns to the Properties screen. When you click the (OK) button, the changes you made becomes effective.

Upgrade Install of the APD

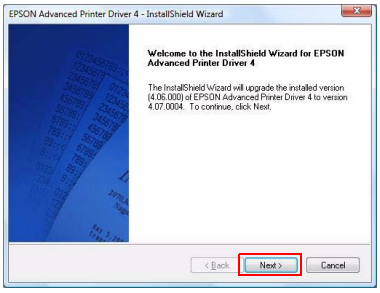
Follow the procedures below to perform upgrade installation of the APD of the new version.

1 Double click the (APD) icon of installer and start the installation.

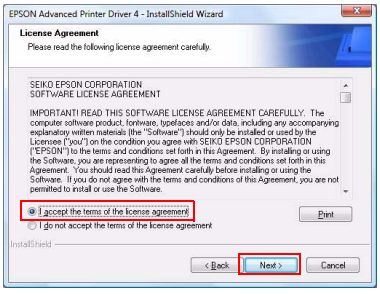
2 The "InstallShield Wizard" screen appears. Click the (Next) button.

3 The "License Agreement" screen appears. Confirm its content, select "I accept the terms of the license agreement," and click the (Next) button.

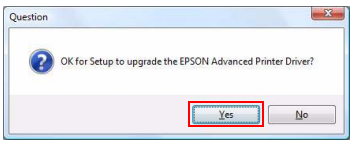
2 >



3 >

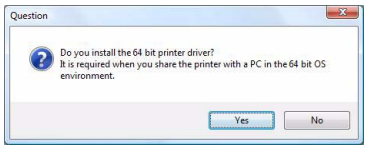


4 The screen asking whether you want to upgrade the APD to the new version appears. Click the (Yes) button.



NOTE

In the case of upgrade install of the APD4.06a or earlier, the screen asking whether you want to install the 64 bit printer driver appears. Clicking the (Yes) button provides the shared printer environment to clients using 64 bit version OS.



5 The "Printer Configuration" screen appears. Click the (Next) button.

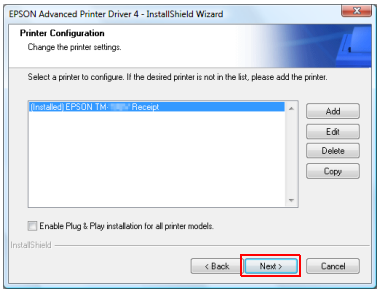
> NOTE Click [Add] button to add a printer driver.

6 The "Start Upgrading" screen appears. Confirm the content of installation in the "Current Settings" field, and click the (Next) button.

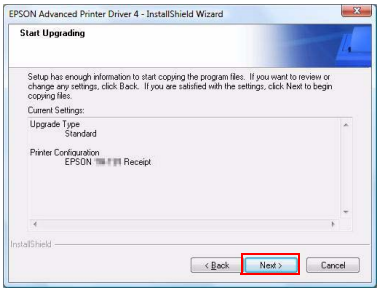
7 The upgrade installation of the APD starts.

8 The "Upgrade Complete" screen appears. Click the (Finish) button to complete the upgrade installation.

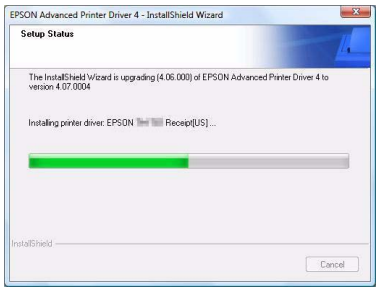
5 >



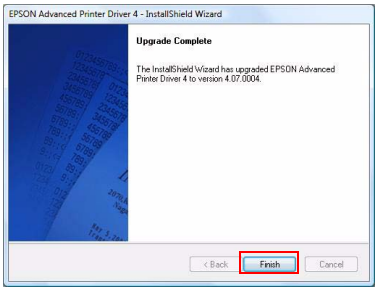
6 >



7 >



8 >



Silent Installation

This chapter describes the procedures for the Silent Installation.

What Is a Silent Installation?

The silent installation is a method that copies the existing APD setup environment to other computers without user operation. There are the following two methods.

❑ Using a silent installation package (*.exe)

Create the silent installation package on the copy source computer.

- Executing this file on another computer enables you to install the minimum environment for operating the APD from all the environment of the copy source computer.
- When the silent installation is executed with this file, you cannot create the silent installation package or the script file for the silent installation, or add another printer.

❑ Using a script file (*.inf) for the silent installation

Create the script file for the silent installation on the copy source computer.

- Executing this file and the APD file (APD_4xxSA_T81.exe) on another computer enables you to install the complete APD environment of the copy source computer.
- In the environment in which the silent installation is executed with this file, you can create the silent installation package or the script file for the silent installation, and you can also add another printer.

With this function, you can incorporate the APD installation into a batch file, a recovery disc for the OS, and an installer of an application.

Also, you can add the command options for the silent installation to enable the following functions.

- Notification when completing the installation
- Restart setting after completing the installation
- Upgrade installation settings
- Installing without displaying screens.

CAUTION

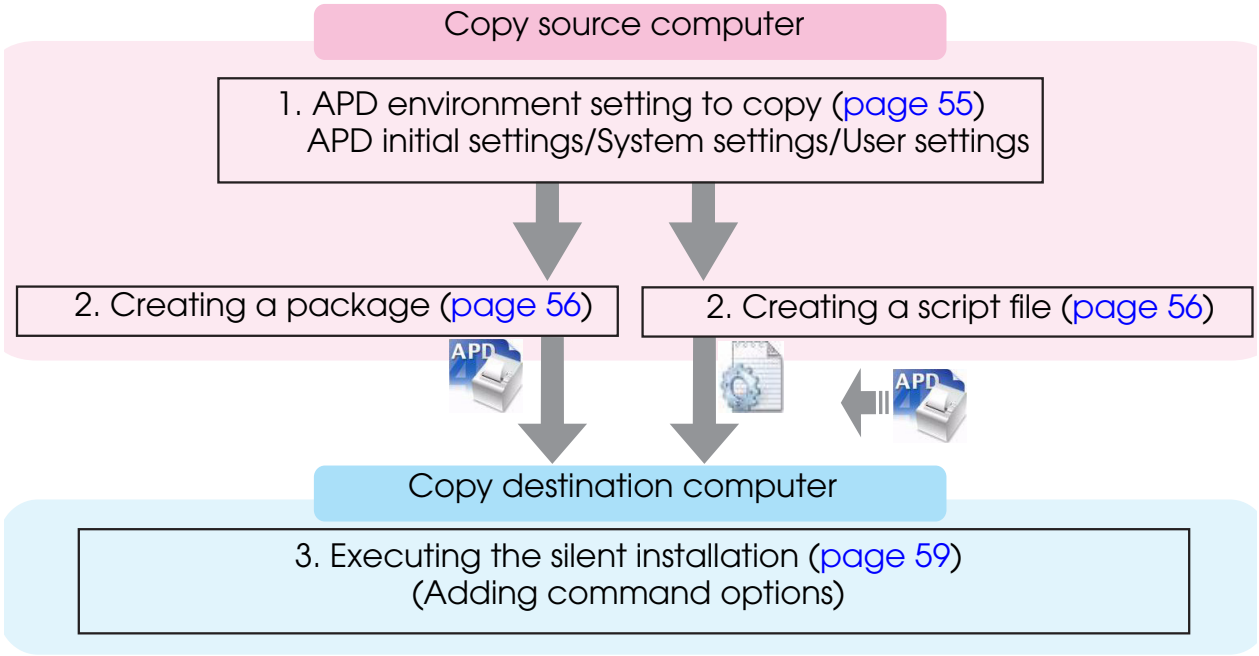
- To use the silent installation, Internet Explorer version 4.0 or later is required.
- When APD3 or APD4 have been already installed in the target computers, uninstall those before the silent installation.

This method is useful especially in the following cases:

- You can make the same setting to multiple computers easily.
- Even computers with no displays can be set up.
- In case of printing trouble, the APD environment of the computer with an error can be recreated on another computer by using the script file for the silent installation of that computer, and it improves the service and maintenance function. (In the environment in which the silent installation is executed with the silent installation package, the script file for the silent installation cannot be created.)

Flow of the Silent Installation

The flow of the silent installation is described below.



Setting the APD Environment To Be Copied

Create the APD environment for the silent installation on the copy source computer.

Following APD environment to be copied can be selected.

- APD initial setting
  This is the setting when installing the APD.
- System setting
  This is the system setting for the printer.
- User setting
  This is the user setting for the printer. The same setting as that of the copy source computer.

APD Setting

When copying the user setting or system setting of the printer, see the “TM Printer Manual” to make settings.

Making the system setting

Select (Start) - (Control Panel) - (Hardware and Sound) - (Printers), right-click the printer, and select (Properties) - (Advanced) - (Printing Defaults) to make settings. (Reference page of other OS.)

Making the user setting

Select (Start) - (Control Panel) - (Hardware and Sound) - (Printers), right-click the printer, and select (Properties) - (General) - (Printing Preferences) to make settings. (Reference page of other OS.)

Creating a Package or Script file

Create the silent installation package or the script file for the silent installation.
First, confirm which APD environment to copy on the copy source computer. (See "Setting the APD Environment To Be Copied" on page 55.)
Follow the steps below.

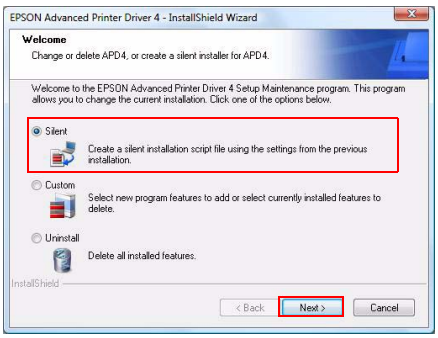
1 Select from (Start) - (All Programs) - (EPSON) - (EPSON Advanced Printer Driver 4) and open (Change or delete APD4, or create a silent installer for APD4.)

2 The "Welcome" screen appears. Select "Silent", then click the (Next) button.

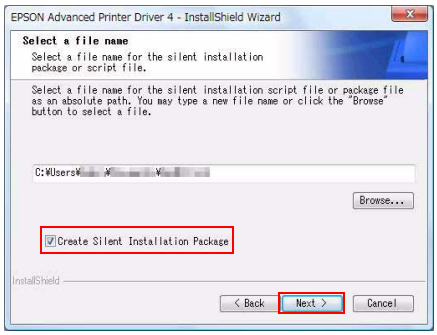
3 The "Select a file name" screen appears.
Specify a destination folder and file name, and specify which type of file to create. Click the (Next) button.

Setting	Description
Location to save the file and file name	Specify a destination and a file name for the file to be created.
Create silent installation package	• Check when you want to create a silent installation package. • Uncheck when you want to create a script file for the silent installation. (Checked by default.)

2 >



3 >



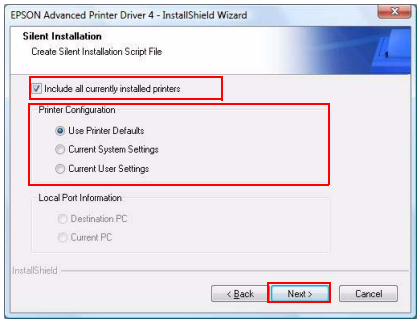
4 The "Silent Installation" screen appears. Select the setting you want to copy from (Printer Configuration), and select the printer to be installed. If you do not want to select all the printers installed in the copy source computer with the APD, uncheck (Include all currently installed printers). Click the (Next) button.

- The setting in (Printer Configuration) is the default value for the copy destination printer. When installing multiple printers, you cannot change each printer individually.
- Go to Step 7 when you check (Include all currently installed printers).

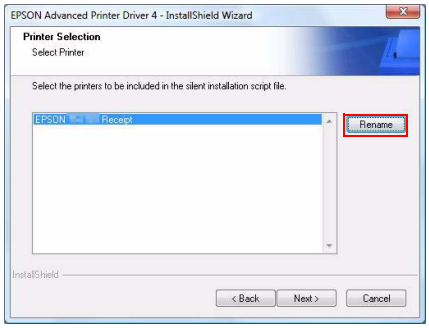
Setting		Description
Include all currently installed printers		If checked, all the APD printers installed in the copy source computer are selected. If unchecked, each APD printer installed in the copy source computer can be selected. (Checked by default.)
Printer Configuration		Select the printer setting that you want to copy.
	Use Printer Defaults	Setting when the APD is installed is used.
	Current System Settings	System settings of the printer You can check them by selecting (Properties) - (Advanced) - (Printing Defaults).
	Current User Settings	User Settings of the printer You can check them by selecting (Properties).
Local Port Information		Not available.

5 "Printer Selection" screen appears. Select the printer driver you want to copy. To change the printer name, click the (Rename) button. If you do not want to change the printer name, go to step 7 by clicking the (Next) button.

4 >



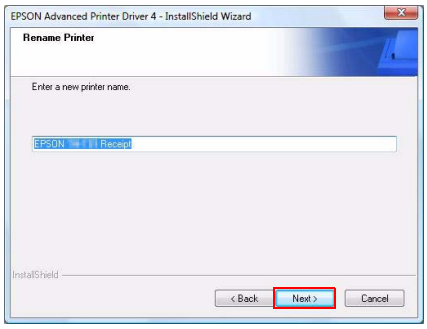
5 >



6 The "Rename Printer" screen appears. Change the printer driver name, and click the (Next) button.

7 The "Start Creating Silent Installation Script File" screen appears. Make sure that the file information displayed in "Current Settings" is correct and click the (Next) button to create the silent installation package or the script file for the silent installation.

6 >



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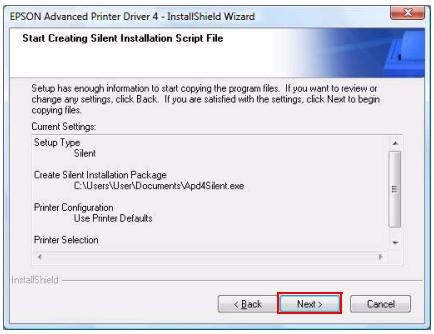

8 The "Maintenance Complete" screen appears. Click the (Finish) button. The silent installation package or the script file for the silent installation has been created in the destination folder specified in Step 3.

Executing the Silent Installation

You can execute the silent installation using the following methods.

- Execute the silent installation package on the copy destination computer.
- Copy the script file for the silent installation and the APD file, and execute a command from the command prompt.
- Develop a batch file or an application for the APD installation, and execute it.

How to execute the Silent Installation

Following the procedures below to execute the silent installation.

Installing using the silent installation package

Copy the silent installation package to the copy destination computer, and execute the following command.

```
>[Package File Name(specified with the full path)]
```

Ex: `D:\APD>Apd4Silent.exe`

When checking the result of silent installation using a package file, check that the specified printer driver is correctly installed in [Start] - [Control Panel] - [Hardware and Sound] - [Printers].

Installing using the script file for the silent installation

Copy the script file for the silent installation and the APD file, and execute the following command.

```
>[APD_4xxSA_T81.exe (specified with the full path)]
         [/s /f1 "Apd4Silent.inf (specified with the full path)"]
```

Ex: `D:\APD>APD_410SA_T81.exe /s /f1"D:\APD\Apd4Silent.inf"`

Checking the Installation Result

The silent installation results of the silent installation package/script file for the silent installation can be checked in the “Result Code” of “APD4SilentSetup.log” which is created in the same location as that of the package or the file.

The contents of “Result Code” are as follows.

Result Code	Description
0	Completed successfully
-3	The APD has already been installed.
2	The files needed for silent installation could not be found.
1151	The OS does not support the APD.
1223	The silent installation was cancelled by the user.

Command Options

The command options of the silent installation and how to make settings are described below.

> NOTE
>
> You can use the command options in combination.

/s /f1 : Silent installation using the script file

Using this command option enables you to execute the silent installation using the script file for the silent installation.

For more details, see "Installing using the script file for the silent installation" on page 59.

/s /a : Upgrade

Using this command option enables you to upgrade the APD. Printers not supported by the APD4 are deleted.

Example

```
D:\APD4\APD_410SA_T81.exe /s /a
```

/uninstall : Silent Uninstallation

Using this command option enables you to uninstall using the command line.

Example

```
D:\APD4\APD_410SA_T81.exe /s /uninstall
```

> **NOTE** When “/s” is not attached, the uninstallation screen is displayed.

/d : Display the silent installation result in a dialog

Using this command option enables you to display the silent installation result in a dialog when the installation is completed.

Example

Package File

```
D:\APD4\Apd4Silent.exe /d
```

Script File

```
D:\APD4\APD_410SA_T81.exe /s /f1”D:\APD4\Apd4Silent.inf” /d
```


/w /m : Display a window message of the silent installation completion

Adding the Windows handle and message ID to the command enables you to display a window message of the silent installation completion.

Example

In the example below, Windows handle is 0x6789abc, and message ID is 0x0501

Package File

```
D:\APD4\Apd4Silent.exe /w6789abc /m0501
```

Script File

```
D:\APD4\APD_410SA_T81.exe /s /f1”D:\APD4\Apd4Silent.inf”
                                                    /w6789abc /m0501
```

/r : Restart setting after the installation

Using this command option enables you to make the restart setting of OS after the silent installation is completed.

Example when you want to restart

Package File

```
D:\APD4\Apd4Silent.exe /rY
```

Script File

```
D:\APD4\APD_410SA_T81.exe /s /f1"D:\APD4\Apd4Silent.inf" /rY
```

Example when you do not want to restart

Package File

```
D:\APD4\Apd4Silent.exe /rN
```

Script File

```
D:\APD4\APD_410SA_T81.exe /s /f1"D:\APD4\Apd4Silent.inf" /rN
```

/l : Specify the install log file

Using this command option enables you to specify the output destination of the installation log (Apd4Setup.log). Normally this is output in the Windows folder.

Example

Package File

```
D:\APD4\Apd4Silent.exe /l"D:\APD4\log.txt"
```

Script File

```
D:\APD4\APD_410SA_T81.exe /s /f1"D:\APD4\Apd4Silent.inf"
                                                    /l"D:\APD4\log.txt"
```