

Advanced Printer Driver 6

Install Manual

Before Use

Describes the information that users need to know before using this product.

APD6 Overview

Provides an overview of APD6.

Installation

Describes installation, uninstallation, and maintenance after installation of APD6.

Copy Installation

Describes the copy install process.

Command

Describes the commands for upgrading and uninstalling APD6.



Before Use

This chapter describes the information that users need to know before using the EPSON Advanced Printer Driver 6 ("APD6" below).

APD6 Packages

APD6 consists of the following packages.

- **Printer driver package**
These packages are prepared for each TM printer model. Installing the printer driver enables easy printing from software applications. The following manuals are provided.
 - **Install Manual (this manual)**
This describes APD6 installation, TM printer registration, and how to automatically install the printer driver.
 - **Printer Manual**
This describes the APD6 setting procedures and functions.
 - **Printer Specification**
This describes the printer driver specifications for each TM printer model.
- **Status API package**
This is a special package in APD6 for all TM printers. This must be installed when developing applications that control TM printers using Status API and when APD6 coexists with other Epson drivers. The following manuals are provided.
 - **Status API Manual**
This describes how to use Status API to obtain the status of a TM printer from a software application. For the specifications of the APIs available for each TM printer model, see the "Printer Specification" manual contained in the printer driver package.
- **Sample program package**
This is a special package in APD6 for all TM printers. This contains sample programs and sample code for developing applications for printing and control of TM printers. Although no manual is provided, it contains HTML files that describe the programs.

Download



For customers in North America, go to the following web site:

www.epson.com/support/

For customers in other countries, go to the following web site:

www.epson-biz.com/

Meaning of Symbols

 IMPORTANT	Indicates information with which you must comply when using the product. Mishandling due to ignoring this information may cause the product to fail or malfunction.
 NOTE	Indicates supplementary explanations and information you should know.

Assumptions Used in This Manual

- The screens in this manual use the display screens from Windows 10.
- The screen setting items may vary depending on the TM printer model and current settings.

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APD6 Overview

APD6 Features

The EPSON Advanced Printer Driver Version 6 ("APD6" below) is a Windows printer driver for Epson TM printers. APD6 has the following features.

- Enables commercially-available applications to control TM printer-specific functions.
- Allows setting of IP addresses to TM printers.
- Creates copy installation package for installing and configuring APD6 on other computers.
- Supports printer sharing. Allows sharing of TM printer with other computers on the network. (Sharing using a print server is not supported.)
- Enables printing from terminal services and Citrix XenApp environments.
- Allows installation and uninstallation of APD6 using commands from batch files for building user environments.

Operating Environment

OS

- Microsoft Windows 10 (32 bit/64 bit)
- Microsoft Windows 8.1 (32 bit/64 bit)
- Microsoft Windows 8 (32 bit/64 bit)
- Microsoft Windows 7 SP1 (32 bit/64 bit)
- Microsoft Windows Server 2019
- Microsoft Windows Server 2016
- Microsoft Windows Server 2012 R2
- Microsoft Windows Server 2012
- Microsoft Windows Server 2008 R2 SP1
- Microsoft Windows Embedded 8.1 Industry Pro (32 bit/64 bit)
- Microsoft Windows Embedded Standard 7 (32 bit/64 bit)
- Microsoft Windows Embedded POSReady 7 (32 bit/64 bit)



NOTE

Universal Windows platform applications are not supported.

Supported TM Printers

Compatible models appearing in the "Printer Specification" manual contained in this printer driver package.

Software Requiring Installation of Status API Package

Install the Status API package in the following cases.

- When using the Status API to develop an application that controls the TM printer
- When using one of the following Epson software applications with APD6 on the same computer

Software name	Compatible version
EPSON Advanced Printer Driver 4	Ver.4.56 or later
EPSON Advanced Printer Driver 5	Ver.5.09 or later
EPSON OPOS ADK	Ver.2.68 or later
EPSON OPOS ADK for .NET	Ver.1.11.20 or later
EPSON JavaPOS ADK	Ver.1.11.20 or later
EpsonNet SimpleViewer	Ver.2.30 or later
TM Virtual Port Driver	Ver7.10a or later

OS Differences

The OS procedures in this manual are described using Windows 10. Refer to the following table for the operating procedures when using other OSes.

Item	Description
Uninstall	<p>Windows 10 [Start] - [Settings] - [Apps](or [System]) - [Apps & features]</p> <p>Windows 8.1/ Windows 8 [Desktop] - Sidebar[Settings] - [Control Panel] - [Uninstall a program]</p> <p>Windows 7 [Start] - [Control Panel] - [Uninstall a program]</p>
Printers & scanners	<p>Windows 10 [Start] – [Control Panel] – [Hardware and Sound] – [Devices and Printers] or [Start] – [Settings] – [Devices] – [Printers & scanners]</p> <p>Windows 8.1/ Windows 8 [Desktop] – [Settings] – [Control Panel] – [Hardware and Sound] (or [Hardware]) – [Devices and Printers]</p> <p>Windows 7 [Start] – [Control Panel] – [Hardware and Sound] – [Devices and Printers]</p>

Restrictions

- APD6 cannot be installed on a computer where APD4.55 or earlier version is installed. You must first update to APD4.56 or later, and then install APD6.
- For a USB connection, the printer driver can be installed by Plug and Play after installing APD6, but the printer driver cannot be added when the TM printer is offline (such as when the cover is open, paper is out, and so on). The printer driver is added when the printer recovers from the offline status.
- A maximum of 8 TM printers can be used simultaneously over a USB connection.
- The printing function only is enabled for terminal services and Citrix XenApp environments. As a result, the APD6 Status API and Windows PRINTER_INFO_2 cannot be used.

Installation

This chapter describes installation ([page 11](#)), uninstallation ([page 16](#)), and maintenance after installation ([page 17](#)).



IMPORTANT

- Install using administrator privileges.
- Before starting the installation, exit all running applications.



NOTE

APD6 cannot use TM printers that have DHCP and other dynamic IP addresses. Set a fixed IP address. An IP address can be set for the TM printer when installing APD6. You can also set a temporary IP address when installing APD6 and change the IP address later.

Installation

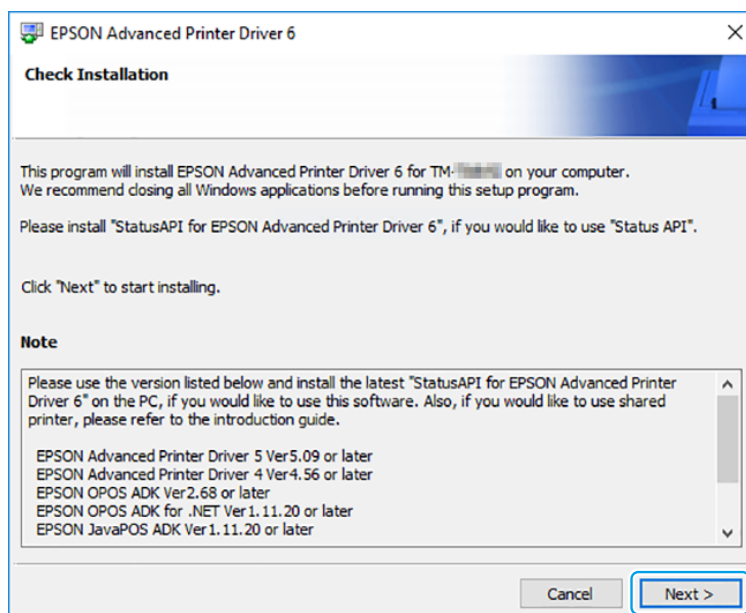
Install by following the procedure below.



NOTE

Installation is recommended while the TM printer is disconnected.

- 1 Double-click the APD6 installer (APD_6xx_xxx.exe) to start the installation process.
- 2 The "Check Installation" screen appears. Check the Note information. Verify the computer environment, and click [Next] to continue.

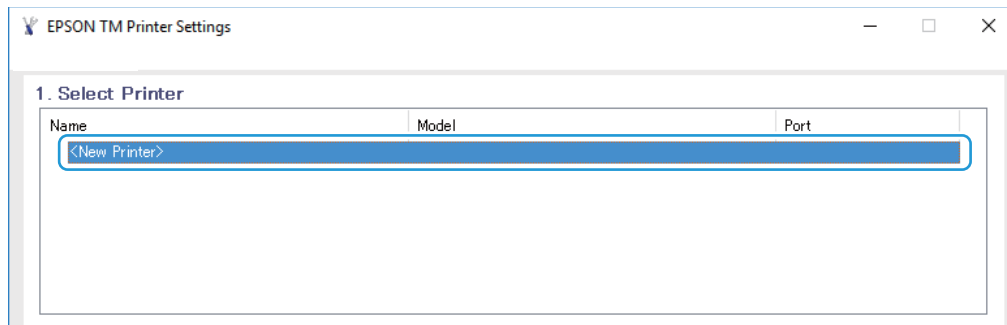


NOTE

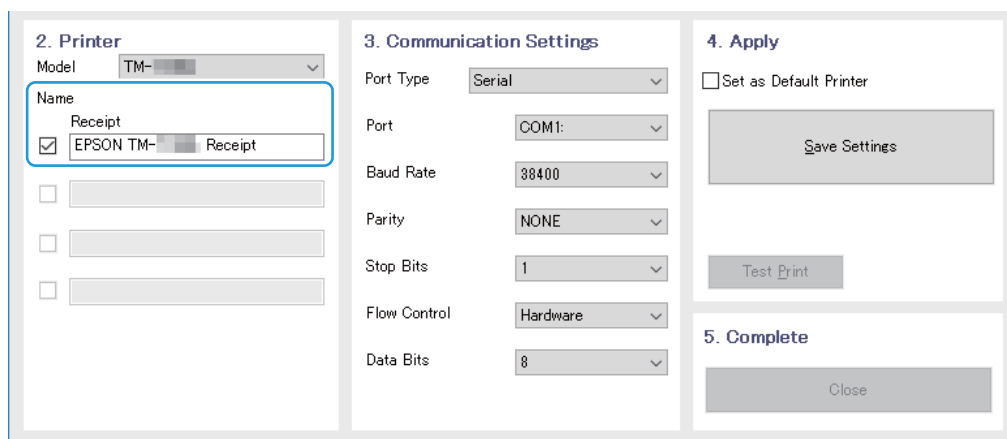
To use the software shown in the Note information, install this product, and then install the Status API package.
SEE ["Software Requiring Installation of Status API Package"](#) on page 8.

3 Follow the on-screen instructions to proceed with the installation process.

4 The "EPSON TM Printer Settings" screen appears.
From [1. Select Printer], select "New Printer".



5 From [2. Printer], check the name of the TM printer. Make any needed settings.



Item	Description
Model	Displays the model name for the driver that will be installed. This does not need to be set.
Name	Insert a check mark into the check box on the left to set the printer name. Edit the name if necessary. This is the name of the printer queue.

6 From [3. Communication Settings] - [Port Type], select the port of the TM printer. Make the required settings for each port.

The screenshot shows the '3. Communication Settings' window. The 'Port Type' dropdown menu is open, displaying the following options: COM, USB, Ethernet, and Port Sharing. The 'COM' option is currently selected. Below this, several other settings are configured: Baud Rate is set to 98400, Parity is set to NONE, Stop Bits is set to 1, Flow Control is set to Hardware, and Data Bits is set to 8. To the right of the settings, there is a section for applying changes, including a checkbox for 'Set as Default Printer', a 'Save Settings' button, and a 'Test Print' button. At the bottom right, there is a 'Close' button under the '5. Complete' section.

Port Type	Description	
	Item	
Serial	Selects a serial port. This cannot be selected if the computer does not have a serial port.	
	Port	Specifies the serial port number of the computer where the TM printer is connected.
	Baud Rate	Selects the communication speed. Set to match the setting of the TM printer.
	Parity	Selects the parity. Set to match the setting of the TM printer.
	Stop Bits	Selects the stop bits. Set to match the setting of the TM printer.
	Flow control	Selects the method of data flow control for serial notification. Set to match the setting of the TM printer.
	Data Bits	Selects the data bits. Set to match the setting of the TM printer.
Parallel	Selects a parallel port. This cannot be selected if the computer does not have a parallel port.	
	Port	Specifies the parallel port number of the computer where the TM printer is connected.
USB	Selects the USB port.	
	Port	[Auto setup] is displayed.
Ethernet	Selects the Ethernet port. Set the IP address to match the setting of the TM printer.	
	Port	Select Auto setup, and specify the [IP Address]. If a port already exists, select the port. In this case, the [IP Address] does not need to be set.
	IP Address	The IP address of the TM printer is entered here. Enter the IP address that is set to the TM printer.
	Set to Printer	When the TM printer is connected to a network, the TM printer uses the IP address that is set here. For details, see "Setting an IP Address to a TM Printer" on page 19.
Port Sharing	Select when creating multiple print queues on a single TM printer. For example, this can be set when managing by dividing the queue for printing of receipts and the queue for printing of fixed-size tickets.	
	Connect to	Selects the print queue.



NOTE

The item appearing in "Port Type" may vary for some TM printer models.
For details on how to check the communication settings with the TM printer and make the settings, see the Technical Reference Guide of the respective TM printer.

7 Under [4. Apply], make the following settings, and click [Save Settings].

The screenshot shows the 'EPSON TM Printer Settings' window. It is divided into three main sections: '2. Printer', '3. Communication Settings', and '4. Apply'. In the '4. Apply' section, the 'Set as Default Printer' checkbox is checked. Below it, the 'Save Settings' button is highlighted with a blue border. Other buttons visible include 'Test Print' and 'Close'.

Item	Description
Set as Default Printer	Insert a check mark to set as the default printer for the application.

8 The TM printer that was set appears in [1. Select Printer].

The screenshot shows the 'EPSON TM Printer Settings' window. The '1. Select Printer' section is active, displaying a table with columns for Name, Model, and Port. The printer 'EPSON TM- Receipt' is selected, and its port 'TMUSB001' is displayed.



NOTE

The port that is generated by APD is displayed. This might be different than the port that was selected in step 6.

- If the TM printer has a USB interface and the Status API package is not installed.
: TMUSBxxx
- The following port is generated when the Status API package is installed.
: ESDPRTxxx

9 Click [Close] under [5. Complete].

The screenshot shows a three-pane window for printer configuration. The left pane is titled '2. Printer' and contains a 'Model' dropdown set to 'TM-...', a 'Name' field, and a list of printer types with checkboxes. The middle pane is titled '3. Communication Settings' and contains a 'Port Type' dropdown set to 'USB' and a 'Port' dropdown set to 'TMUSB001'. The right pane is titled '4. Apply' and contains a checkbox for 'Set as Default Printer', a 'Save Settings' button, and a 'Test Print' button. Below the '4. Apply' section is a section titled '5. Complete' which contains a 'Close' button. The 'Close' button is highlighted with a blue dashed border.



NOTE

After the TM printer is connected, select [Test Print] to perform an operation check.

When APD6 is installed, a print queue is generated in Windows. To check the print queue, click [Start] - [Settings] - [Devices] - [Printers & scanners] to view the print queue in the "Printers & scanners" screen.



For details on how to view from other OSes, see ["OS Differences" on page 9](#).

10 Connect the TM printer, and turn on the power.

To set an IP address to a TM printer with an Ethernet interface, see ["Setting an IP Address to a TM Printer" on page 19](#).

Uninstallation

This shows how to uninstall APD6.

 IMPORTANT	Do not remove the printer queue from [Start] - [Settings] - [Devices] - [Printers & scanners]. Even if the icon (printer driver) no longer appears on the screen, APD6 is not uninstalled.
 NOTE	You can uninstall APD6 from the command prompt. For details, see "Uninstallation" on page 28 .

Use the following procedure to uninstall APD6.

- 1 Before starting the uninstallation, exit all running applications.**
- 2 Select [Start] - [Settings] - [Apps] - [EPSON Advanced Printer Driver 6 for TM-xxx], and click [Uninstall].**
For details on OS differences, see ["OS Differences" on page 9](#).
- 3 Follow the on-screen instructions to proceed with the uninstallation process.**

Maintenance

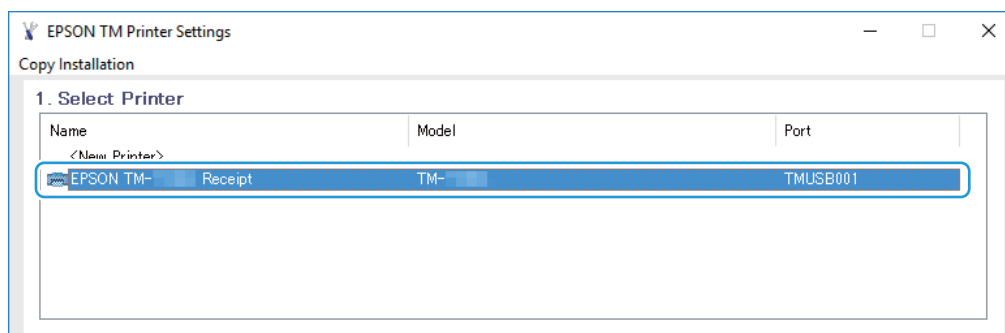
- Changing the Connection Port ([page 17](#))
- Setting an IP Address to a TM Printer ([page 19](#))

Changing the Connection Port

You can change the port of APD6 to match the interface of the connected TM printer.

Use the following procedure to change the port.

- 1** Connect the TM printer and computer, and turn on the TM printer.
- 2** Select [Start] - [EPSON Advanced Printer Driver 6] - [EPSON APD6 - TM Printer Settings].
- 3** The "EPSON TM Printer Settings" screen appears.
From [1. Select Printer], select the TM printer where the port will be changed.



4 In [3. Communication Settings], set the port. For the setting items, see [page 13](#).

The screenshot shows the 'EPSON TM Printer Settings' window with three main sections:

- 2. Printer:** Includes fields for 'Model' (TM-), 'Name', and a list of printer models with checkboxes. The first model, 'EPSON TM- Receipt', is selected.
- 3. Communication Settings:** Includes 'Port Type' (set to USB) and 'Port' (with a dropdown menu showing COM, USB, Ethernet, and Port Sharing).
- 4. Apply:** Includes a checkbox for 'Set as Default Printer' and a 'Save Settings' button.
- 5. Complete:** Includes a 'Close' button.

5 Under [4. Apply], click [Save Settings].

6 When the port setting is applied, the TM printer information shown in [1. Select Printer] is updated.

The screenshot shows the 'EPSON TM Printer Settings' window with the '1. Select Printer' section. It contains a table with the following data:

Name	Model	Port
<New Printer>		
EPSON TM- Receipt	TM-	

The 'EPSON TM- Receipt' row is highlighted with a blue border.

7 Click [Close] under [5. Complete].

This completes the changing of the port for APD6.

Setting an IP Address to a TM Printer

This shows how to set an IP address that was set in APD6 to a TM printer. This can be used when registering a new TM printer to an existing print queue, such as after replacing a TM printer.

Use the following procedure to make the settings.

- 1** Connect the TM printer to the network, and turn on the power of the TM printer.
- 2** Select [Start] - [EPSON Advanced Printer Driver 6] - [EPSON APD6 - TM Printer Settings].
- 3** The "EPSON TM Printer Settings" screen appears.
From [1. Select Printer], select the TM printer where the IP address will be set.
- 4** Check that [3. Communication Settings] - [Port Type] is set to "Ethernet", and check the setting value for [IP Address]. You can also enter a different IP address.

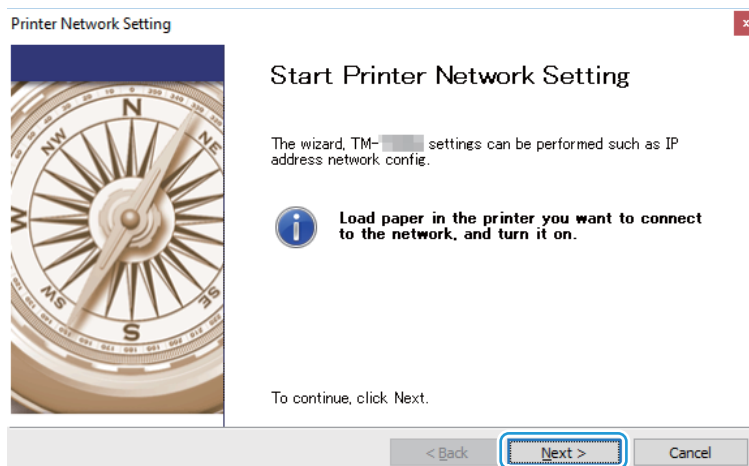
The screenshot shows the "EPSON TM Printer Settings" window with three main sections:

- 2. Printer:** Includes a "Model" dropdown set to "TM-", a "Name" field, and a list of printer models. "EPSON TM- Receipt" is selected with a checkmark.
- 3. Communication Settings:** Includes a "Port Type" dropdown set to "Ethernet", a "Port" dropdown set to "192.168.", and an "IP Address" field set to "192.168.". A "Set to Printer" button is located below the IP address field.
- 4. Apply:** Includes a checkbox for "Set as Default Printer" (unchecked), a "Save Settings" button, and a "Test Print" button.
- 5. Complete:** Includes a "Close" button.

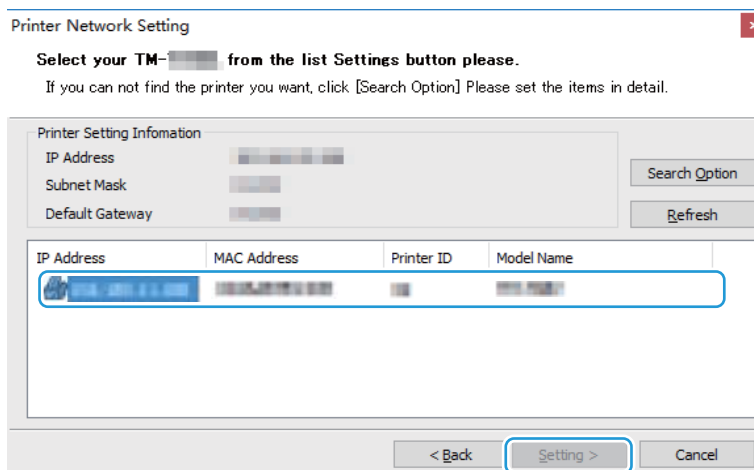
- 5** Click [Set to Printer].

This screenshot is identical to the previous one, but the "Set to Printer" button in the "3. Communication Settings" section is highlighted with a blue border, indicating it should be clicked.

6 The "Start Printer Network Setting" screen appears. Click [Next].



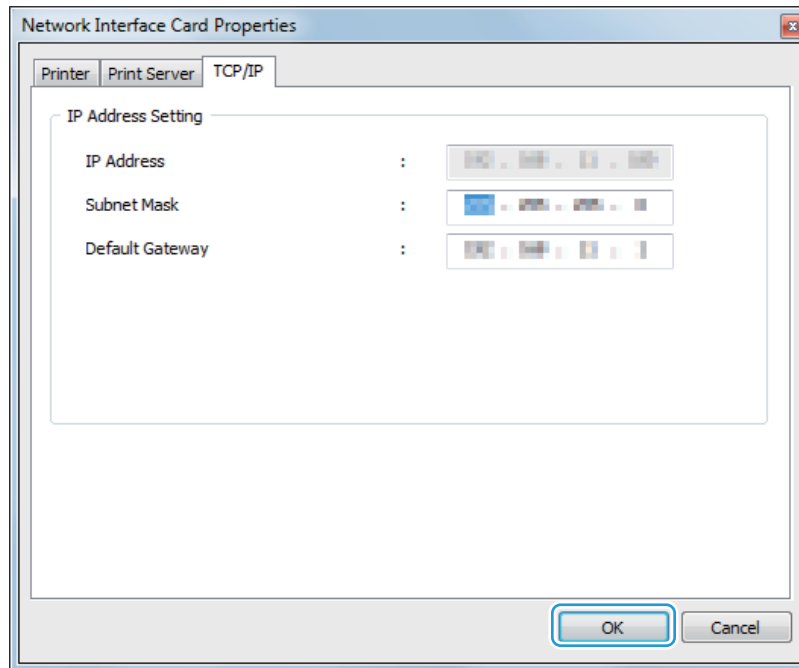
7 The "Printer Network Setting" screen appears. The TM printer appears in the list. Select the TM printer where the IP address will be set, and click [Setting].



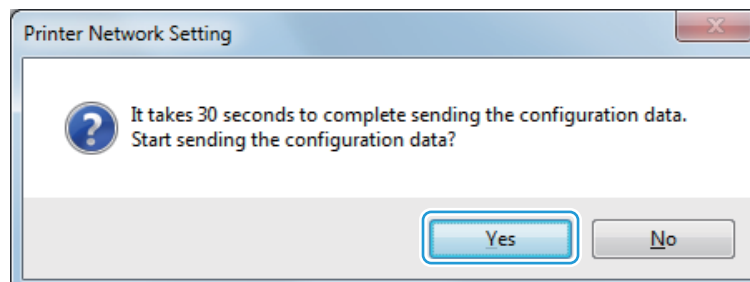
NOTE

- You can search for a TM printer from a specific network by clicking the [Search Option] button and using the search option setup function.
- If the target TM printer is not displayed in the list, click the [Refresh] button. If the printer still does not appear even after clicking the [Refresh] button, check whether the target TM printer is connected to the network.
- If TM printers that are the same model appear in the list, specify the TM printer using the displayed MAC address.

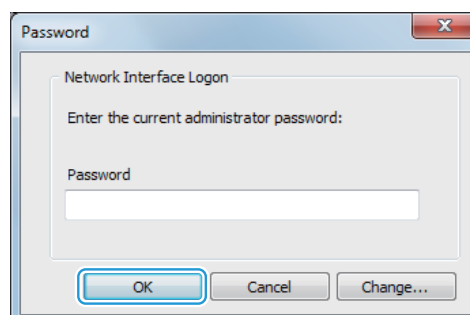
- 8** The "Network Interface Card Properties" screen appears. Check the network settings to be set for the TM printer, and click [OK].



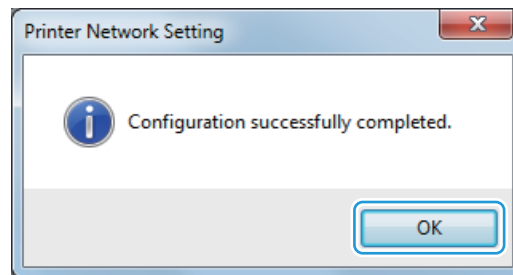
- 9** A confirmation screen appears. Click [Yes].



- 10** A screen appears for entering the network interface password. This is the NetConfig password of the printer. If necessary, enter the password, and click [OK]. This starts setting of the IP address to the TM printer.

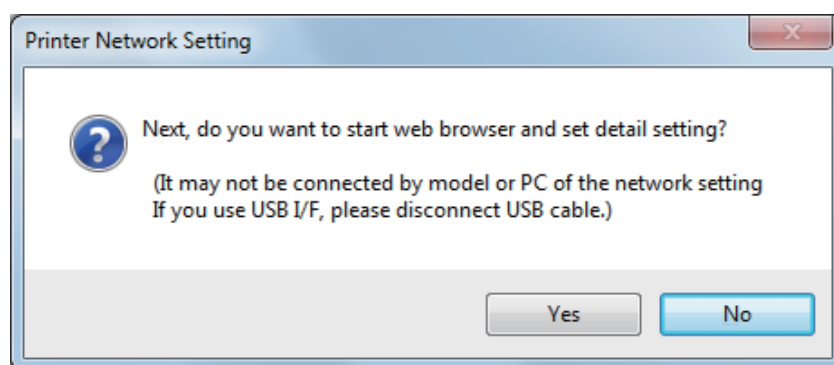


- 11** The following screen appears. Click [OK].



- 12** The following screen appears. To make detailed network settings for the TM printer, click [Yes].

TMNet WebConfig is launched.



- 13** The "Register, Change and Delete EPSON TM Printer" screen appears. Under [4. Apply], click [Save Settings].

This completes the setting of an IP address that was set in APD6 to a TM printer.

Copy Installation

This chapter describes the procedures for copy installation.

What Is Copy Installation?

Copy installation is a function that allows you to create a preconfigured APD6 installation package for automatically installing and configuring APD6 on other computers by simply running an installation program.

Commands are executed from user batch files to install APD6 automatically.

Commands can be added to set a different IP address from the package during the copy installation process.

**NOTE**

Copy installation cannot be performed if the OS bit versions are different.

Example: When performing a copy installation to a 64-bit OS computer, use a 64-bit OS computer to create the copy installation package.

Creating a Package

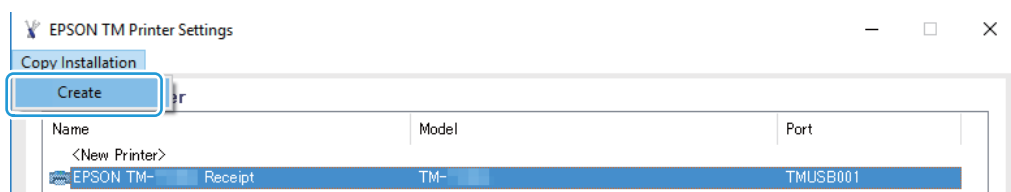
Perform the following procedure to create a copy installation package.



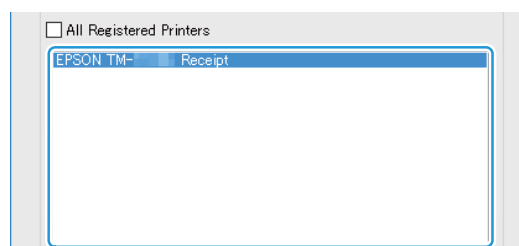
IMPORTANT

A copy installation package file cannot be created in computers where APD6 was copy installed.

- 1 Make the APD6 settings.**
For details on the APD6 settings, see the "Printer Manual".
- 2 Select [Start] - [EPSON Advanced Printer Driver 6] - [EPSON APD6 - TM Printer Settings].**
- 3 The "EPSON TM Printer Settings" screen appears.**
Select [Copy Installation] - [Create].



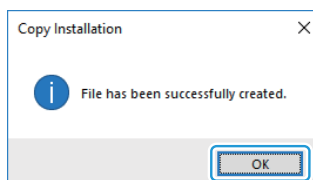
- 4 The "Create Copy Installation Package" screen appears.**
Select the TM printer to be copied from the [Printer to be copied] list.



NOTE

In the default setting, a check mark is inserted for [All Registered Printers]. To copy by including all registered TM printers, leave the check mark. To copy a specific TM printer only, remove the check mark, and select the TM printer.

- 5 Click [Browse], and specify the directory where the package file will be created, and click [Create].**
- 6 A confirmation screen appears. Click [OK].**
A package file is created.
- 7 When the creation process is completed, the following screen appears. Click [OK].**
The file is created in the directory selected in step 5.



Copy Installation

APD6 can be installed and configured automatically by performing a copy installation at the target copy computer.

Use the following procedure to perform copy installation.



IMPORTANT

- Run using administrator privileges.
- Copy installation cannot be performed if the OS bit versions are different.
Example: When performing a copy installation to a 64-bit OS computer, use a 64-bit OS computer to create the copy installation package.

- 1 Copy the package file to the target copy computer.**
- 2 Start the Windows command prompt.**
- 3 Enter the following command to execute the copy installation.**
>[Package file name (specified using the full path)]
Example: C:\Apd6CopyInstaller.exe



NOTE

- When executing the package file (exe file), check that no other files are contained in the same folder as the package file (exe file).

- 4 The copy installation process for APD6 is started.**
APD6 is installed and configured automatically.
The results of the copy installation process are saved to a log file. For details, see ["Log File" on page 26](#).

Setting the IP Address of a Connection Port

A command can be specified to set an IP address for the APD6 connection port during the copy installation process.

Use the following procedure to perform copy installation with an IP address setting.

- 1 Copy the package file to the target copy computer.**
- 2 Start the Windows command prompt.**
- 3 Enter the following command to execute the copy installation.**
>[Package file name (specified using the full path)]
Example: C:\Apd6CopyInstaller.exe /P"192.168.100.10"
- 4 The copy installation process for APD6 is started.**
APD6 is installed, and the port is configured automatically.
At this stage, the IP address has not been set to the TM printer. To register an IP address to the TM printer, connect the TM printer, and then set the IP address.
For the setting procedure, see ["Setting an IP Address to a TM Printer" on page 19](#).

Log File

The results of the copy installation process can be checked from the following file.

File name	Output folder
CopyInstallLog.txt	C:\Users\%USERNAME%\Application Data\EPSON\EPSON Advanced Printer Driver 6\CopyInstallLog

Information Contained in CopyInstallLog.txt

The following information is contained in the CopyInstallLog.txt file.

- Date and time that the command was executed
- Package file name
- Install result

The "Install Result" contains the following information.

Install Result	Description
0	Installation was completed correctly.
1223	The user canceled installation.
1	<ul style="list-style-type: none"> • Administrator privileges are required to perform setup correctly. • The currently-selected volume does not have enough disk space to install the selected functions. Obtain enough disk space by either deleting files from the currently-selected volume or by removing the functions to be installed on the local disk. You can also select another drive.
3	The specified command option cannot be used.
4	The installation process could not be performed because APD6 is already installed. To install from this package, uninstall the existing APD6.
5	The currently-installed version is newer than the version to be installed.
6	The specified file does not match the APD6 installer package.
7	<ul style="list-style-type: none"> • This file can be used for 32-bit OSes only. • This file can be used for 64-bit OSes only.
-3	The installation process cannot be performed because APD6 is already installed.
1151	APD6 copy installation was performed for an unsupported OS.
-1	<ul style="list-style-type: none"> • The files in the target computer cannot be overwritten. The files may be currently in use. Exit all applications, and try to install again from the beginning. • Installation failed. Exit all applications, and retry installation from the beginning.

Command

This chapter describes the commands for upgrading and uninstalling APD6.

In these processes, commands are executed from the Windows command prompt or user batch files.

Upgrading

This describes how to upgrade APD6 from the Windows command prompt.

Perform the following procedure to upgrade APD6.



NOTE

- You cannot upgrade from the copy installation package file.
- The current settings are automatically retained even after APD6 is upgraded.

- 1** Copy the new APD6 package file to the target computer.
- 2** Start the Windows command prompt.
- 3** Enter the following command to execute the upgrade.
>[APD6 package (specified using full path)] /s /a
Example: C:\APD6\APD_6xx_xxx.exe /s /a
- 4** The APD6 upgrade process is started.

For details on functions for rebooting the computer and other operations after the APD6 upgrade process, see ["Command Options" on page 29](#).

You can check the execution results in the log file. For details, see ["Log File" on page 26](#).

Uninstallation

This describes how to uninstall APD6 from the Windows command prompt.

The APD6 package file is required to uninstall APD6.

Use the following procedure to uninstall APD6.

- 1 Copy the APD6 package file to the target computer.**
Obtain the APD6 package file that was installed.
- 2 Start the Windows command prompt.**
- 3 Enter the following command to execute uninstallation.**
>[APD6 installer (specified using full path)] /s /uninstall
Example: C:\APD6\APD_6xx_xxx.exe /s /uninstall
- 4 The uninstallation process for APD6 is started.**

For details on functions for rebooting the computer and other operations after the APD6 uninstallation process, see ["Command Options" on page 29](#).

You can check the execution results in the log file. For details, see ["Log File" on page 26](#).

Command Options

The following command options are available.

Option	Description
(Not specified)	This executes the copy installation process.
/s /a	This upgrades APD6.
/s /uninstall	This uninstalls APD6.
/d	The copy installation, upgrade, and uninstallation results are displayed in a message dialog box.
/r(Y/N)	This sets OS rebooting after the copy installation, upgrade, or uninstallation process is completed. <ul style="list-style-type: none">• To reboot: /rY• To not reboot: /rN (If nothing is specified, the computer is forced to reboot if a reboot request is issued.)
/P	This uses a command to specify the IP address of the APD6 that is copy installed. Only one IP address can be specified even if multiple print queues are set in the copy installation package. (All print queues have the same IP address.)

Appendix

Acknowledgements

Info-ZIP

"Advanced Printer Driver" incorporate compression code from the Info-ZIP group.

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Windows Template Library

This application uses the Microsoft Windows Template Library (WTL).

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