

EPSON OPOS ADK for .NET Manual

User's Reference

SetupPOS

Version 1.14.25 Dec. 2022

Notes

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Chapter 1 Introduction

1.1 Starting SetupPOS

Run SetupPOS from the following program group.

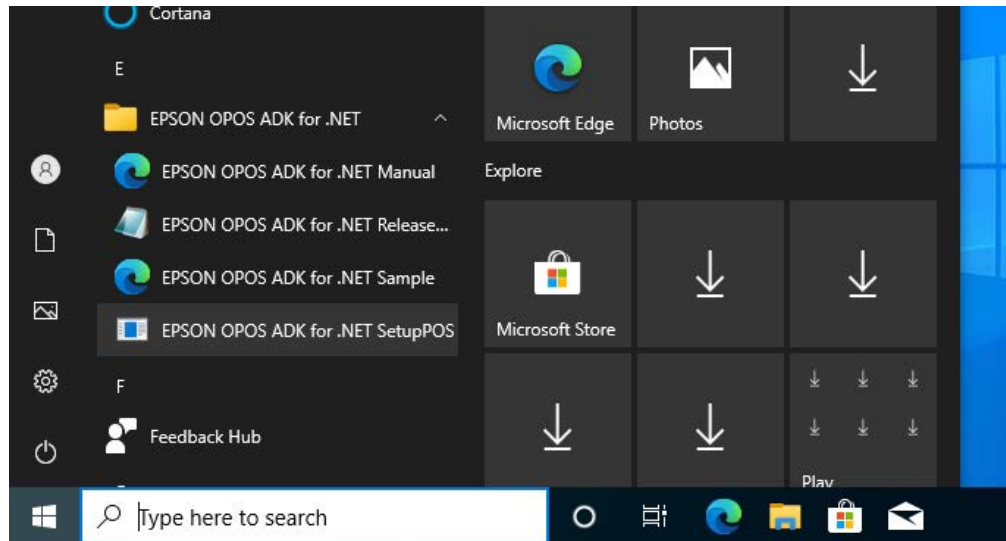
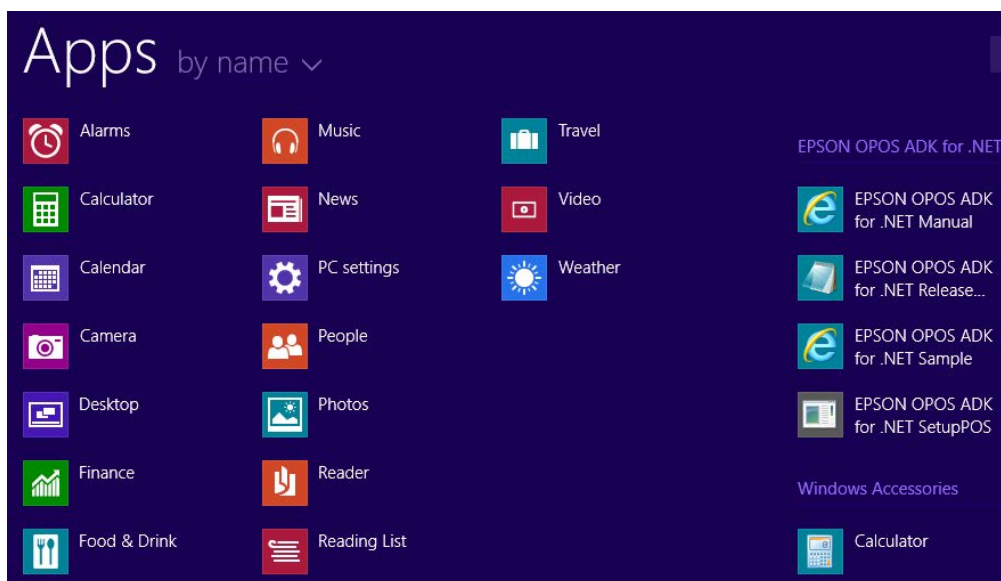


Figure 1 Program Group

In the case of Windows 8, start from the shortcut on the Start screen.



In the case of Windows 8.1, start from the shortcut on the Start screen.



SetupPOS should be run with Administrator privileges. Failure to do so may result in unexpected behavior and the open/save may not be successful. It is necessary to right click on SetupPOS and select "Run as Administrator".

1.2 Main Window

A tree is shown on the left side of the main window. Refer to “[2.3 Tree](#)” for information about the tree.

Tabs for switching between device setting panel displays are shown on the right side of the main window. Refer to “[2.4 Device Setting Panel](#)” for information about each tab.

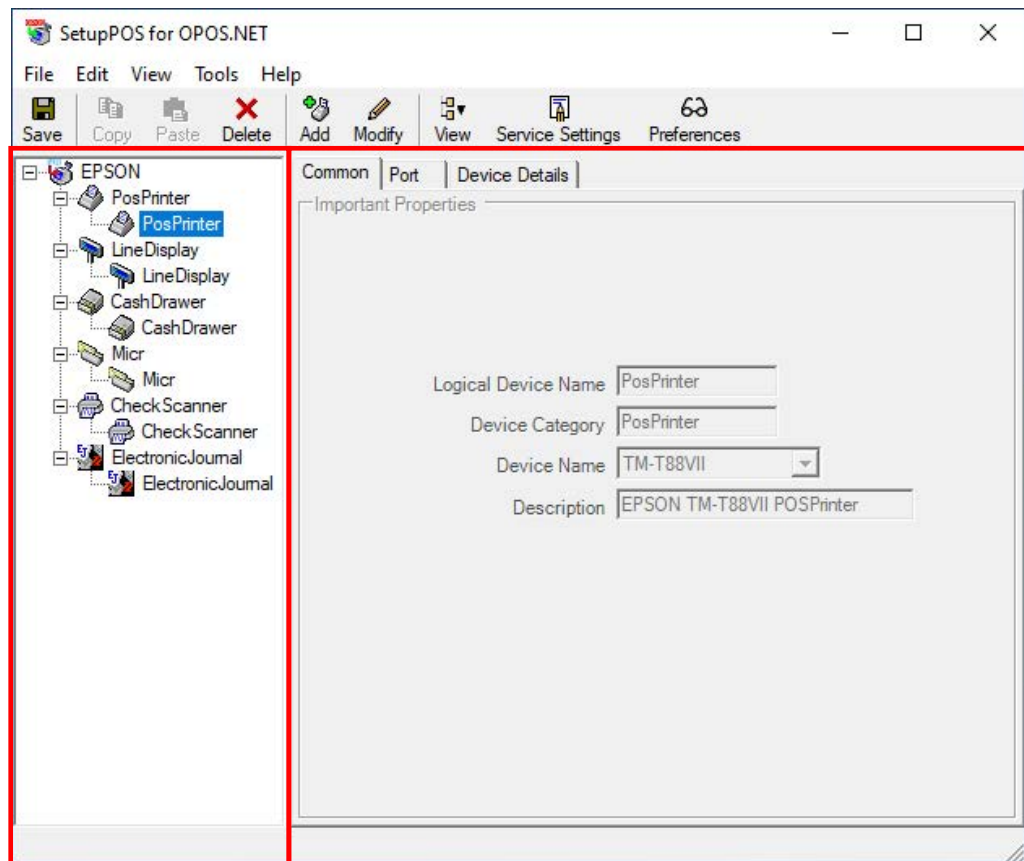


Figure 2 Main Window

Tree

Device setting panel

Chapter 2 User Interface Details

2.1 Menu Items

The structure of the menus is as follows.

- File
 - Save Ctrl+S (Refer to “[3.9 Saving](#)”)
 - Restore (Refer to “[3.6 Restoring Settings](#)”)
 -
 - Import...
 - Export... (Refer to “[3.7 Importing](#)”)
 -
 - Exit
- Edit
 - Copy Ctrl+C (Refer to “[3.4 Copying Device Settings](#)”)
 - Paste Ctrl+V (Refer to “[3.4 Copying Device Settings](#)”)
 - Delete Del (Refer to “[3.3 Deleting Devices](#)”)
 -
 - Add Ctrl+I (Refer to “[3.1 Adding Devices](#)”)
 - Modify Ctrl+M (Refer to “[3.2 Modifying Device Settings](#)”)
- View
 - Toolbar (Refer to “[2.2 Toolbar](#)”)
 - Status Bar (Refer to “[2.5 Status Bar](#)”)
 -
 - Sort By Logical Device Name
 - Sort By EPSON Standard
 - Sort By Connection Type
 -
 - Expand Tree Automatically (Refer to “[3.13 Automatic Expanding](#)”)
 - Ctrl+A
- Tools
 - Service Settings... (Refer to “[3.11 Service Settings](#)”)
 - Preferences... (Refer to “[3.12 Preferences](#)”)
- Help
 - About SetupPOS (Refer to “[3.14 About SetupPOS Dialog Box](#)”)

2.2 Toolbar

The toolbar has the following icons.

- Save (Refer to [“3.9 Saving”](#))

- Copy (Refer to [“3.4 Copying Device Settings”](#))
- Paste (Refer to [“3.4 Copying Device Settings”](#))
- Delete (Refer to [“3.3 Deleting Devices”](#))

- Add (Refer to [“3.1 Adding Devices”](#))
- Modify (Refer to [“3.2 Modifying Device Settings”](#))

- View (Refer to [“2.3 Tree”](#))
 - Sort By Logical Device Name
 - Sort By EPSON Standard
 - Sort By Connection Type

- Service Settings (Refer to [“3.11 Service Settings”](#))
- Preferences (Refer to [“3.12 Preferences”](#))

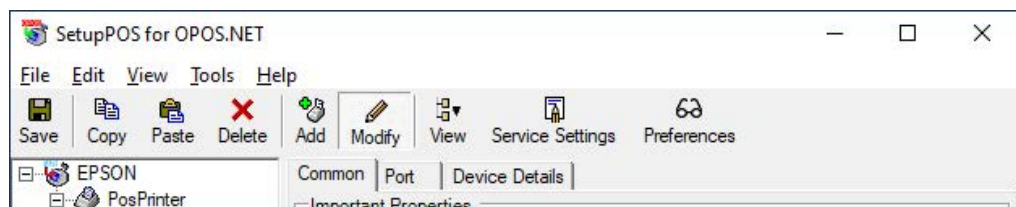


Figure 3 Small Icon Toolbar

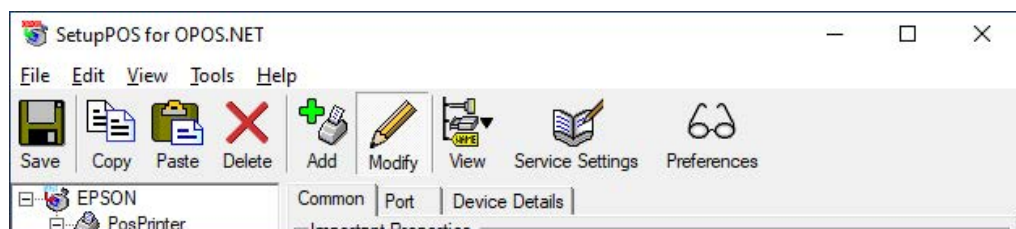


Figure 4 Big Icon Toolbar

2.3 Tree

The tree shows a list of devices. The logical name of each device category is used as the unique device identifier. Therefore, it is not possible to use the same logical device name for multiple devices.

The tree can be displayed in the following 3 ways.

- Logical device name (alphabetic)

Each device has a property known as its logical device name. Using these properties, devices are sorted alphabetically and shown in a tree format.

- Device category (Epson display order)

In the Epson display order, devices are classified by device category, and within each category, the logical device names are sorted alphabetically.

The order of the device categories is as follows.

- PosPrinter
- LineDisplay
- CashDrawer
- Micr
- CheckScanner
- Electronic Journal
- Device categories other than those shown above are shown alphabetically after the above list.

- Connection type

When devices are sorted using the port type, the tree is displayed in the following order.

- Serial
- Parallel
- USB
- Wired Network
- Wireless Network
- Bluetooth

The tree can be customized, and all branches can be made to expand automatically.

When the tree is shown by connection type, drag and drop of devices is supported. If you drag and drop a device to a different connection type, the connection property is changed to the property of the location to which it is dragged.

2.4 Device Setting Panel

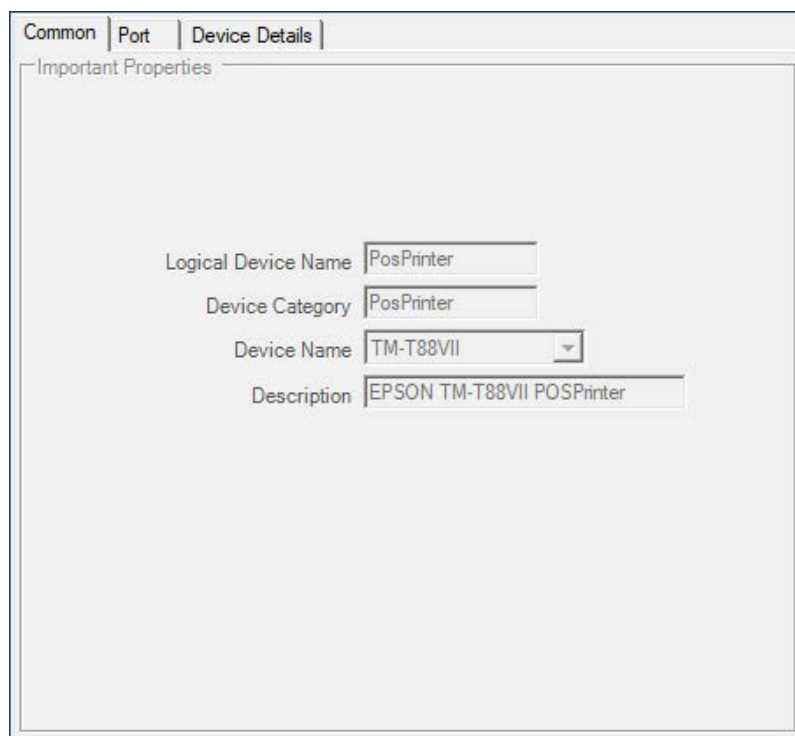
The following 3 tabs are shown on the device setting panel. The 3 tabs are shown with most devices.

- Common tab (Refer to “[2.4.1 Common tab](#)”)
- Port tab (Refer to “[2.4.2 Port tab](#)”)
- Device Details tab (Refer to “[2.4.3 Device Details tab](#)”)

2.4.1 Common tab

The Common tab is the default tab of the device setting panel.

- Logical Device Name indicates the unique device key within the device category. If the field is empty, or if an already existing value is specified, an error message is displayed in the status bar.
- The Device Category value is selected when a device is added, and this value determines what is displayed in the Device Details tab. Once a device is added, this value cannot be changed.
- Device Name determines the value displayed in the Port tab.



The screenshot shows a software window titled 'Common | Port | Device Details'. The 'Common' tab is selected. Below the tab headers, there is a section labeled 'Important Properties'. Inside this section, there are four input fields: 'Logical Device Name' with the value 'PosPrinter', 'Device Category' with the value 'PosPrinter', 'Device Name' with a dropdown menu showing 'TM-T88VII', and 'Description' with the value 'EPSON TM-T88VII POSPrinter'.

Figure 5 Common Tab

2.4.2 Port tab

The property value of this tab is determined by the selected Device Name on the Common tab.

The following 6 port types can be selected.

- Serial
- Parallel
- USB
- Wired Network
- Wireless Network
- Bluetooth

When a port's type is changed, the port's own value is set to the default value.

The screenshot shows a software window with three tabs: 'Common', 'Port', and 'Device Details'. The 'Port' tab is active. It contains two sections: 'Connection Interface' and 'Serial Specific Settings'. In the 'Connection Interface' section, there is a 'Port Type' dropdown menu currently set to 'Serial'. In the 'Serial Specific Settings' section, several parameters are configured: 'Port Name' is 'COM1', 'Output Buffer Size' is '4096', 'Bits per second' is '38400 bps', 'Data bits' is '8 Bits', 'Parity' is 'No Parity Bit', 'Stop Bits' is '1 Stop Bit', and 'Flow Control' is 'DTR/DSR'. Each parameter is either in a text box or a dropdown menu.

Figure 6 Port Tab - Serial Settings

The screenshot shows a software window with three tabs: 'Common', 'Port', and 'Device Details'. The 'Port' tab is active. It contains two sections: 'Connection Interface' and 'Parallel Specific Settings'. In the 'Connection Interface' section, the 'Port Type' is set to 'Parallel' in a dropdown menu. In the 'Parallel Specific Settings' section, the 'Port Name' is 'LPT1' and the 'Output Buffer Size' is '4096'.

Section	Field	Value
Connection Interface	Port Type	Parallel
Parallel Specific Settings	Port Name	LPT1
	Output Buffer Size	4096

Figure 7 Port Tab - Parallel Settings

The screenshot shows a software window with three tabs: 'Common', 'Port', and 'Device Details'. The 'Port' tab is active. It contains two sections: 'Connection Interface' and 'USB Specific Settings'. In the 'Connection Interface' section, the 'Port Type' is set to 'USB' in a dropdown menu. In the 'USB Specific Settings' section, the 'Port Name Type' is 'Device Name' in a dropdown menu, and the 'Port Name' is 'TM-U675'.

Section	Field	Value
Connection Interface	Port Type	USB
USB Specific Settings	Port Name Type	Device Name
	Port Name	TM-U675

Figure 8 Port Tab - USB Settings (configuration method 1)

The screenshot shows a configuration window with three tabs: 'Common', 'Port', and 'Device Details'. The 'Port' tab is selected. It contains two sections: 'Connection Interface' and 'USB Specific Settings'. In the 'Connection Interface' section, there is a 'Port Type' dropdown menu set to 'USB'. In the 'USB Specific Settings' section, there is a 'Connect to port' dropdown menu set to 'NewTMPORT[TM-T88VII]PosPrinter'.

Figure 9 Port Tab - USB Settings (configuration method 2)

The screenshot shows a configuration window with three tabs: 'Common', 'Port', and 'Device Details'. The 'Port' tab is selected. It contains two sections: 'Connection Interface' and 'Ethernet Specific Settings'. In the 'Connection Interface' section, there is a 'Port Type' dropdown menu set to 'Wired Network'. In the 'Ethernet Specific Settings' section, there is an 'IP Address' text field set to '0.0.0.0'.

Figure 10 Port Tab - Wired Network Settings

The screenshot shows a software window titled 'Port Tab - Wireless Network Settings'. It has three tabs: 'Common', 'Port', and 'Device Details', with 'Port' being the active tab. The window is divided into two main sections. The top section, 'Connection Interface', contains a 'Port Type' dropdown menu set to 'Wireless Network'. The bottom section, 'Ethernet Specific Settings', contains an 'IP Address' text field with the value '0.0.0.0'.

Figure 11 Port Tab - Wireless Network Settings

The screenshot shows a software window titled 'Port Tab - Bluetooth Settings'. It has three tabs: 'Common', 'Port', and 'Device Details', with 'Port' being the active tab. The window is divided into two main sections. The top section, 'Connection Interface', contains a 'Port Type' dropdown menu set to 'Bluetooth'. The bottom section, 'Bluetooth Specific Settings', contains a 'Port Name' text field with the value 'COM1'.

Figure 12 Port Tab - Bluetooth Settings

2.4.2.1. USB

The configuration method differs depending on the model.

Models using configuration method 1:

TM-H5000II, TM-H5200, TM-J7000, TM-J7100, TM-J7500, TM-J7600,
TM-U230, TM-U675, TM-U950

Models using configuration method 2:

Models not listed in Models using configuration method 1

USB Configuration Method 1

In Port Name Type, the following can be selected.

- **Device Name:**
Searches for the device using the device name. Select this normally. Multiple models of the same type cannot be used. If multiple models of the same type are used in USB connections at the same time, set according to the following "Multiple models of the same type are used at the same time".
- **PortName:**
Searches for the device using USB symbolic link name.
- **Serial Number:**
Searches for the device using the serial number.
- **Automatic search:**
Searches for connected Epson device automatically and uses the first device found. Only one device can be used with this setup. If multiple models of the same type are used in USB connections at the same time, set according to the following "Multiple models of the same type are used at the same time".

Precautions when registering LineDisplay and CashDrawer

When you select "USB" in the ConnectionType selection window, the configuration window for "USB Configuration Method 2" will appear. Then, when you change "Connected Printer" in the Common selection window, the configuration window for "USB Specific Settings" will change.

The settings must be changed when registering multiple logical devices of the same model. Bring up the "USB Specific Settings" window again to adjust the settings.

Multiple models of the same type are used at the same time

If multiple models of the same type are used in USB connections at the same time, settings must be configured manually.

- 1) Set the USB port setting [Port Name Type] to [Serial Number].
- 2) Specify the USB serial number as the port name.

The USB serial number is a serial number provided exclusively for USB.
The USB serial number can be checked with a printer self-test print.

When the print results are in format a), the part shown as "ID" is the USB serial number (in the example below YYYYYYYYYYYYYY is the serial number).

When the print results are in format b), the USB serial number is the same as the printer serial number. In this case, check the label attached to the printer.

- a) When the USB serial number is printed

```

-----
:
Firmware Version X.XX ESC/POS

Interface UB-UXXXXX Ver.X.XX
ID :YYYYYYYYYYYYYYY
:
:
-----

```

- b) When the USB serial number is not printed

```

-----
:
Firmware Version X.XX ESC/POS

USB Interface or other
:
:
-----

```

* "USB Interface or other" shown above may be printed simply as "USB Interface."

Note that when setting the device using this method, changing a device with a different USB serial number, requires changing the SetupPOS settings.

USB Configuration Method 2

Specify the logical port to which the device will be connected. The logical port refers to "TMPORTxxx". "xxx" is the port number.

- When "Create a new port" is selected, a new logical port is created and linked to the logical device.
- If an existing logical port is selected from the list, that port is linked to the logical device.

When registering a device for the first time

Select "Create a new port" to create a logical port and assign the device to it.

When registering multiple logical devices of the same model

Each time you register a device, select "Create a new port" to create a logical port and assign the device to it.

When using Micr, CheckScanner, or ElectronicJournal in the same device in addition to PosPrinter

Assign all devices to a single logical port.

When connecting LineDisplay or CashDrawer to Printer

Assign all devices to a single logical port.

Use the "Save" button to finalize the logical port information. The appearance changes after the information has been finalized.

Before being finalized with the "Save" button

"New TMPORT"

After being finalized with the "Save" button

"TMPORT"

When registering a device with SetupPOS for the first time under the following conditions, a logical port might already be assigned. In such cases, reconfigure the logical port assignment.

- The device was connected before being registered
- Other Epson-made software is installed
- The software was uninstalled and reinstalled while the device was registered

2.4.2.2. Bluetooth

Input the COM port of the Bluetooth device under Port Name.

Ex.: COM5, etc.

Before registering a Bluetooth-connected device in SetupPOS, configure the COM port of the Bluetooth device.

2.4.3 Device Details tab

The Device Category value on the Common tab determines what is displayed in this tab.

For details of the Device Details tab, refer to the “Application Development Guide” of the relevant device.

2.5 Status Bar

The status bar displays useful information about the functions of the application. It also displays error messages.

2.6 Add Device Dialog Box

The Add Device dialog box is for adding devices. A maximum of 4 panels are displayed one at a time. To move between panels, click Next and Previous. On the last page, Next changes to Finish. Click Cancel to exit the dialog box without adding a device.

The status bar displays error messages concerning invalid values for that panel. If there are invalid values, the content of the text box is shown in red, and Next and Finish cannot be clicked.

The content shown on other panels changes according to the device category and device name on the first panel.

The following screen is the first panel.

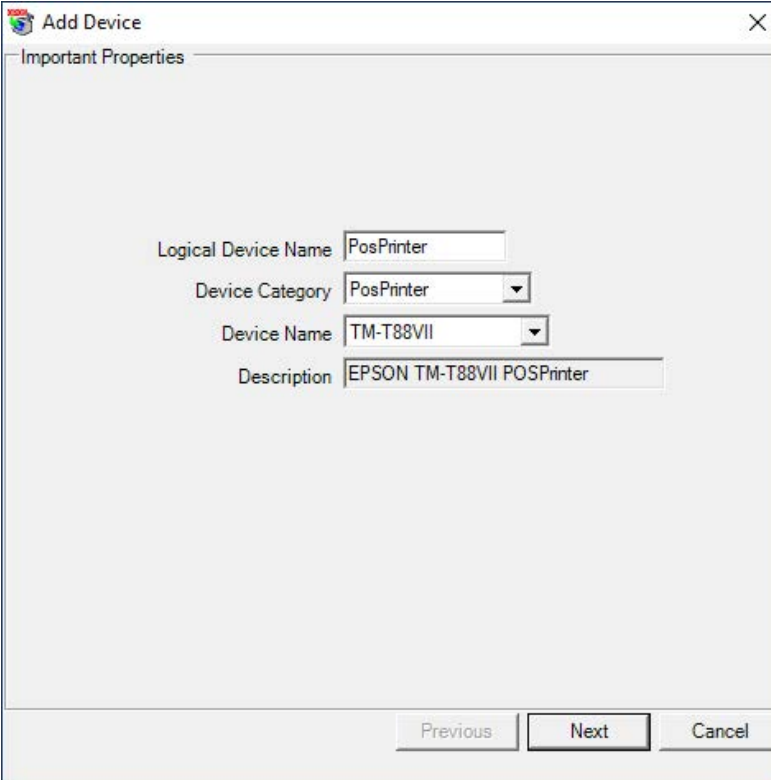
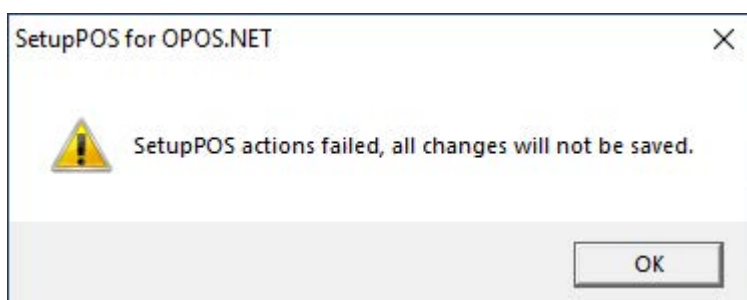
The image shows a Windows-style dialog box titled "Add Device" with a close button (X) in the top right corner. Below the title bar is a tab labeled "Important Properties". The main area of the dialog contains four labeled input fields: "Logical Device Name" with a text box containing "PosPrinter"; "Device Category" with a dropdown menu showing "PosPrinter"; "Device Name" with a dropdown menu showing "TM-T88VII"; and "Description" with a text box containing "EPSON TM-T88VII POSPrinter". At the bottom of the dialog, there are three buttons: "Previous", "Next", and "Cancel". The "Next" button is highlighted with a darker border.

Figure 13 Add Device Dialog Box

When Finish is clicked, the device is added to the tree in the main window, while the details are displayed in the device setting panel on the right side of the main window. This window cannot be edited by default. Refer to [“3.2 Modifying Device Settings”](#) for how to edit the settings.

Note that in some cases, the communication settings can not be set. If this occurs, the following error message will be displayed.



In this case, quit SetupPOS, open up a Command Prompt and type "net stop EPSON_Port_Communication_Service". Then reload SetupPOS and add your device again.

2.7 Service Setting Dialog Box

Tracing, Device Statistics, and Compatibility properties can be changed on the Service Setting dialog box.

2.7.1 Tracing Mode

There are 3 tracing function settings.

- Enable Tracing

Enables/disables the tracing function.

The function is disabled by default.

- Tracing File

Sets the file name for saving the tracing settings

The setting can be changed when the tracing function is enabled.

The location of the trace file is as follows.

(System Drive):¥ProgramData¥EPSON¥pos¥tm¥Trace¥

- File Max Size

Sets the maximum file size for saving the tracing function.

The setting can be changed when the tracing function is enabled.

When the size of the tracing file is over the specified maximum size, a backup file of the tracing file is created. If a backup file is created when there is a backup file already, the new one overwrites the old one.

Changing the tracing function settings updates the tracing property for all the devices.

2.7.2 Device Statistics

Device Statistics is ON by default. Switching Device Statistics ON and OFF updates the Device Statistics property for all the devices.

2.7.3 Compatibility

Set compatibility for OPOS.NET1.9.

- Not Selected: Not compatible with OPOS.NET version 1.9
The specifications for the initialization, peripheral devices, and Error Event are operated in compliance with UPOS1.11. (UPOS Specification)
- Selected: Compatible with OPOS.NET version 1.9
The specifications for the initialization, peripheral devices, and Error Event are operated in compliance with the specifications Pre-Version 1.11 (EPSON Specification)

The default setting is “not selected”

2.7.4 Communication Compatibility

Set compatibility for communication.

- Not Selected: No compatibility between USB and serial.
Normal USB operation.
- Selected: USB and serial will be compatible.
Operation will be equivalent to a serial connection.

The default setting is “not selected”

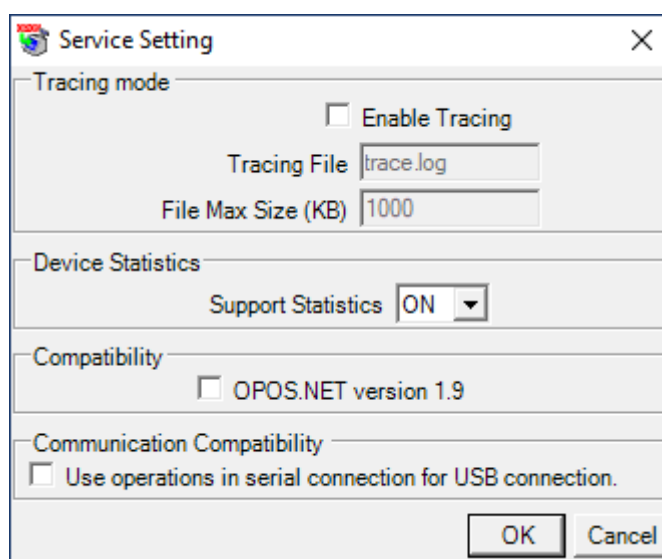


Figure 14 Service Setting Dialog Box

2.8 Preferences Dialog Box

You can set the properties for how SetupPOS is displayed on the Preferences dialog box. The settings are reflected when the program is next started up.

The following 3 setting items are available.

- Locale

English, Japanese and Chinese are supported.

If the locale cannot be determined, English is used by default.

- Icons

You can select big or small icons for the toolbar. However, the size of the tree icons is fixed (refer to [Figure 3](#) and [Figure 4](#)).

- Show Toolbar text

You can set whether or not to display the text for the toolbar buttons. To display the text, check the check box.

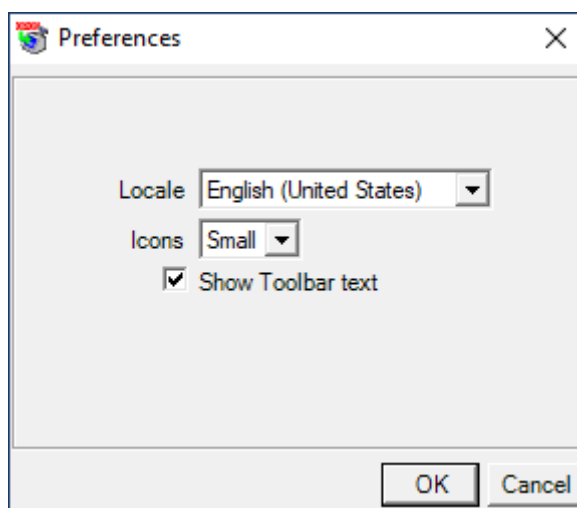


Figure 15 Preferences Dialog Box

Chapter 3 Functions

This chapter describes some of the functions supported by SetupPOS.

3.1 Adding Devices

With the Add Device dialog box, you can add devices with a wizard. The dialog box is activated as follows.

- On the toolbar, click Add.
- In the Edit menu, click Add.
- Right-click the device in the tree and click Add in the context menu.
- Shortcut key: Ctrl + I

When an added device is saved, it is added to a file.

Refer to [“2.6 Add Device Dialog Box”](#) for how to use the Add Device dialog box.

3.2 Modifying Device Settings

When you select a device, the properties of the device are displayed in the default view which cannot be edited. The properties can be edited as follows.

- On the toolbar, click Modify.
- In the Edit menu, click Modify.
- Right-click the device in the tree and click Modify in the context menu.
- Shortcut key: Ctrl + M

If a property is changed and the value is not valid, an error message is displayed in the status bar.

When finishing this mode, select another device in the tree, or perform the procedure above again.

When this mode is finished, the changed values are saved in memory. To save these values in a file, click Save. You cannot return changed values of individual devices to their original values. However, using the restore function, you can return the status of all devices to their previously saved status. Refer to [“3.6 Restoring Settings”](#) for information about the restore function.

SetupPOS does not support modifying the Serial port settings for a model which has already been registered for use with other software. In this case, first modify the configuration within the software that was initially used to register it. Then select the same settings in SetupPOS and save.

3.3 Deleting Devices

With a device selected, perform one of the following operations. There are 4 ways of deleting devices.

- On the toolbar, click Delete.
- In the Edit menu, click Delete.
- Right-click the device in the tree and click Delete in the context menu.
- Shortcut key: Del

If the item selected in the tree is not a device, the delete function is disabled.

3.4 Copying Device Settings

With SetupPOS, you can copy device settings. The following ways of copying are available using Copy and Paste.

- On the toolbar, click Copy and Paste.
- In the Edit menu, click Copy and Paste.
- Right-click the device and in the tree and click Copy and Paste in the context menu.
- Shortcut key: Ctrl + C / Ctrl + V

After selecting a device to copy, copy and then paste it.

When you paste the device, the dialog box for changing the logical device name appears. Specify a new logical device name in this dialog box. Suggested names for the device are displayed. You can simply set a name by selecting one (you can also change it). If you do not select one of the suggested names and set a different name, it is checked to ensure that it is a valid and unique logical device name.

If you paste the device when devices in the tree are sorted by connection type, the item is copied to the communication port selected in the tree. In this case, the port settings may be changed. For example, if you copy a serial connection device and paste it to a USB connection, the device changes to a USB connection, and the USB specific default value maintained by SetupPOS is set.

If the item selected in the tree is not a device, copying is not possible. You cannot paste when the application is starting up and when no device has been copied. Also you can only copy the settings of Epson devices.

3.5 Transferring Device Settings

The transfer function uses drag and drop. This can only be used when devices in the tree are sorted by connection type.

To drag a device, click it with either mouse button to select it, and holding down the mouse button, move the device. Releasing the mouse button transfers the device.

In the following cases, the drag and drop operation is ignored.

- The tree is not displayed in the connection type.
- The place where the device is dropped is not inside the tree.
- The place where the device is dropped is not a connection type that the device supports.
- The item dragged is not a device.

When the device is dropped, the port settings are changed.

3.6 Restoring Settings

Using the restore function, you can return all device settings to the status saved in the settings file.

To use the restore function, select Restore from the File menu.

If there are unsaved changes, the changes will be lost. In this case, a pop-up message appears asking if you want to continue the operation or cancel it.

3.7 Importing

In the File menu, by selecting Import, you can import files into SetupPOS.

If some of the entries conflict, a message to that effect appears, asking if you want to continue the operation or cancel it. If you continue the import, the conflicting entries are ignored.

3.8 Exporting

In the File menu, by selecting Export, you can export the device tree, including all devices to the specified file.

3.9 Saving

You can save settings edited with SetupPOS in a settings file.

There are 3 ways of selecting the saving function.

- On the toolbar, click Save.
- In the File menu, click Save.
- Shortcut key: Ctrl + S

You cannot save settings if there are no changes.

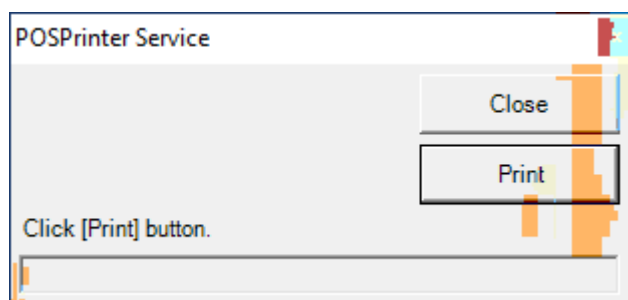
*The settings information is not registered even if "Save" button is enable in case of no alternation in the settings.

3.10 Communication Test

Perform a communication test on the selected device using CheckHealth.

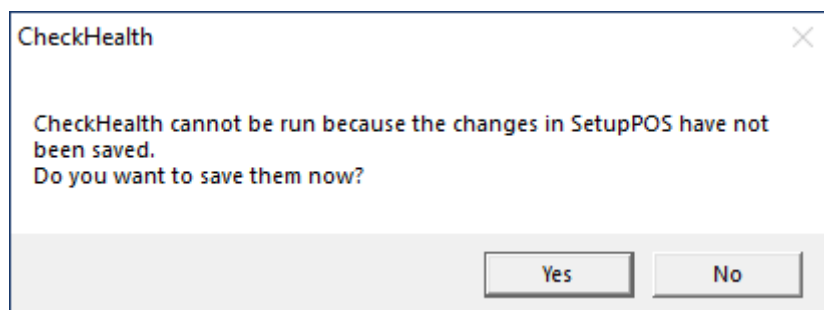
- Right-click the device in the tree and click CheckHealth in the context menu.

The following dialog box appears when CheckHealth is run.



* The dialog box differs depending on the device.

To run CheckHealth, any changes made in SetupPOS must be saved to the configuration file. If you run the program without saving the changes, you will be prompted to save them.



3.11 Service Settings

You can display the Service Setting dialog box from the Tools menu.

Some properties used with services can be changed on the Service Setting dialog box.

Refer to "[2.7 Service Setting Dialog Box](#)" for how to use the Service Setting dialog box.

3.12 Preferences

You can display the Preferences dialog box from the Tools menu.

You can set some of the properties used by SetupPOS on the Preferences dialog box.

Refer to "[2.8 Preferences Dialog Box](#)" for how to use the Preferences dialog box.

3.13 Automatic Expanding

With Expand Tree Automatically on the View menu, you can expand and collapse the tree items.

Checking an item expands that tree. Unchecking Expand Tree Automatically collapses the tree. In this case, only the last device displayed is not collapsed and remains expanded. This allows you to check which entry is displayed.

3.14 About SetupPOS Dialog Box

You can display the About SetupPOS dialog box from the Help menu.

This dialog box displays the version information for the files required to run SetupPOS.