



# TSC Console

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# Users' Manual

# Hello!

Thank you for selecting TSC printers. TSC Console Combine the Printer Management, Diagnostic Tool, CommTool and Printer Webpage settings, providing users the more friendly interface and using experience . This User's guide would provides the essential information required for manipulating.

# Copyright Information

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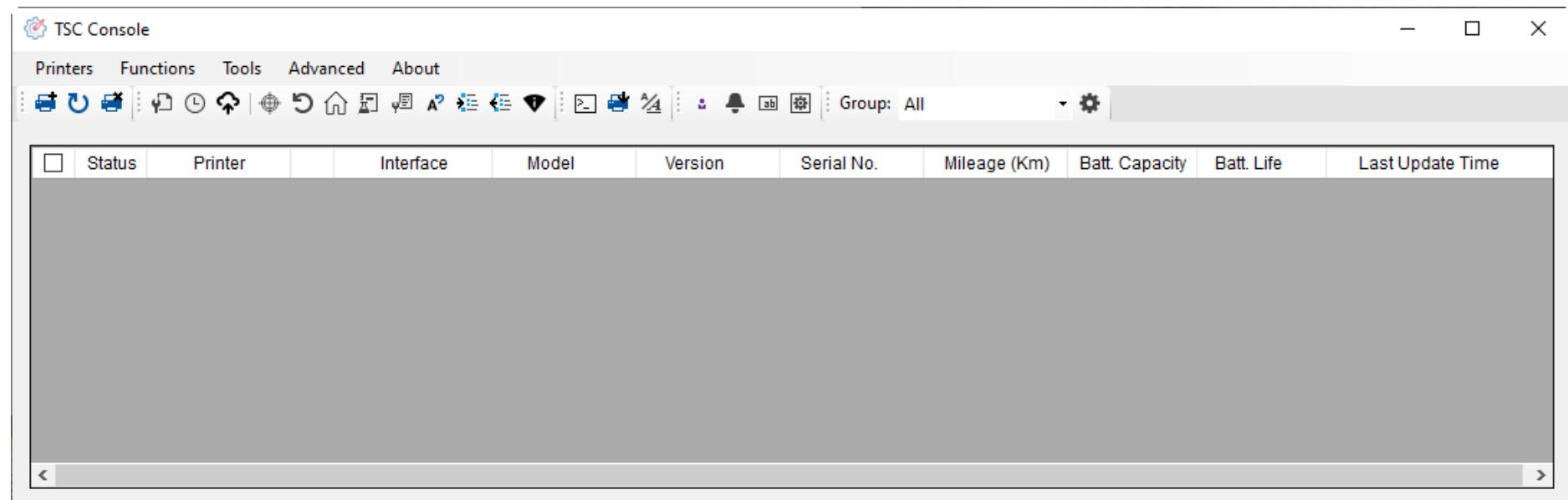
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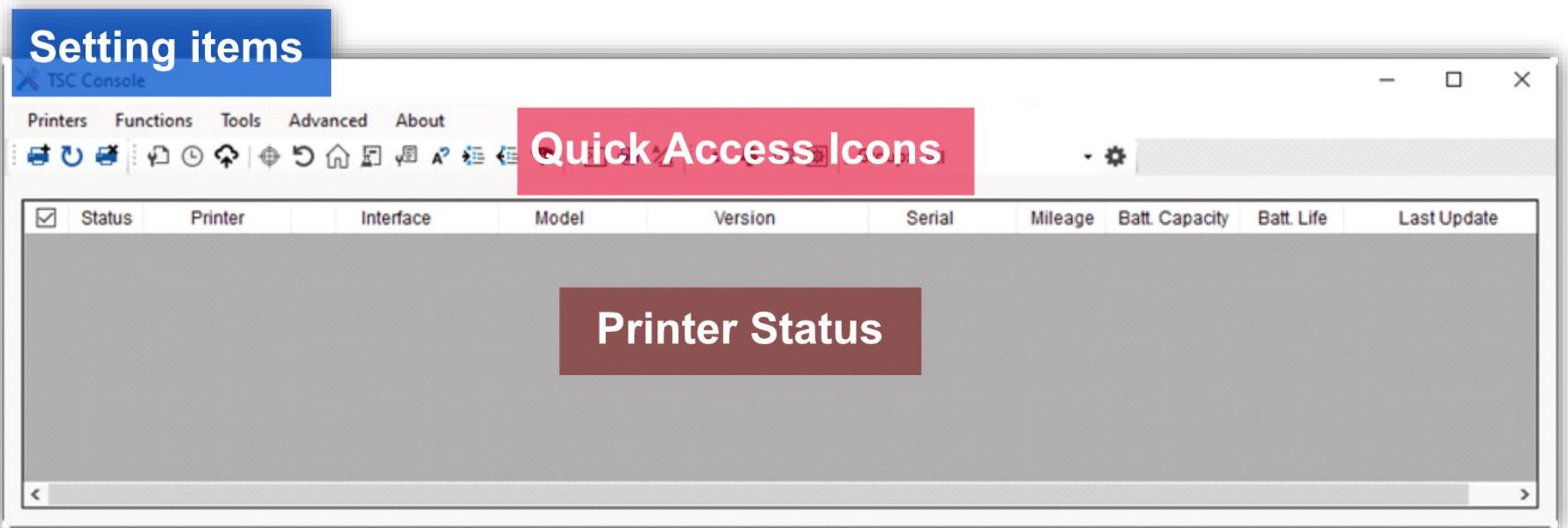
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# 1. Getting Started

- Click **TSC Console Setup.exe** to complete the installation
- Double Click the icon to enter into **TSC Console** interface.

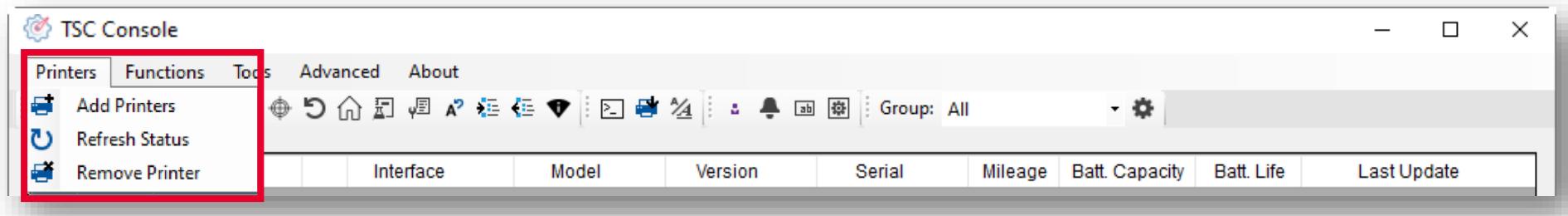


## 2. Overview



### 3. Add Printers

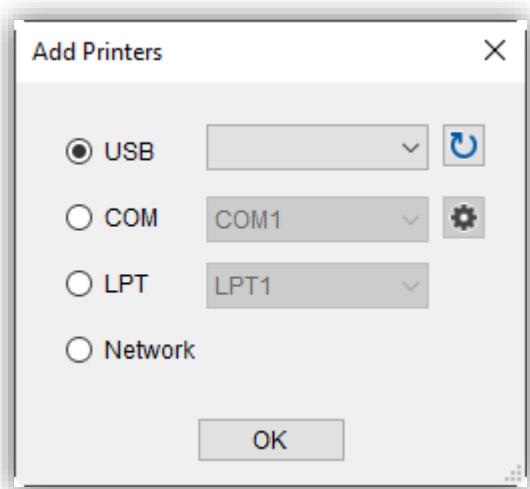
- Click the Printers and select Add Printers.



## 3.1 Interface Setting

### USB

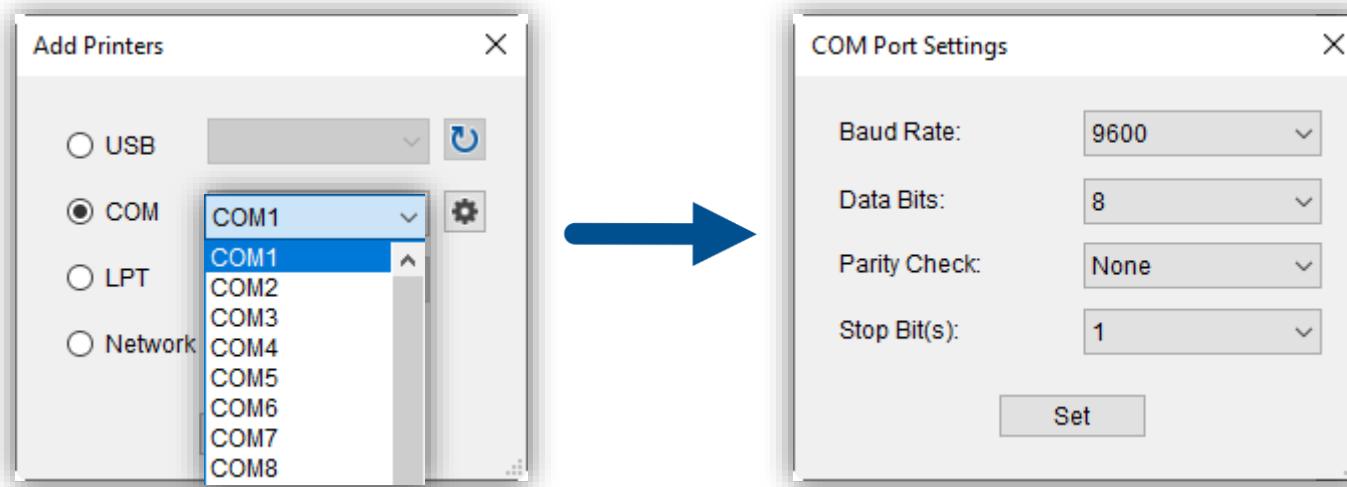
Select **USB** and click **OK** to find the device.



## COM Port (RS232 and Bluetooth)

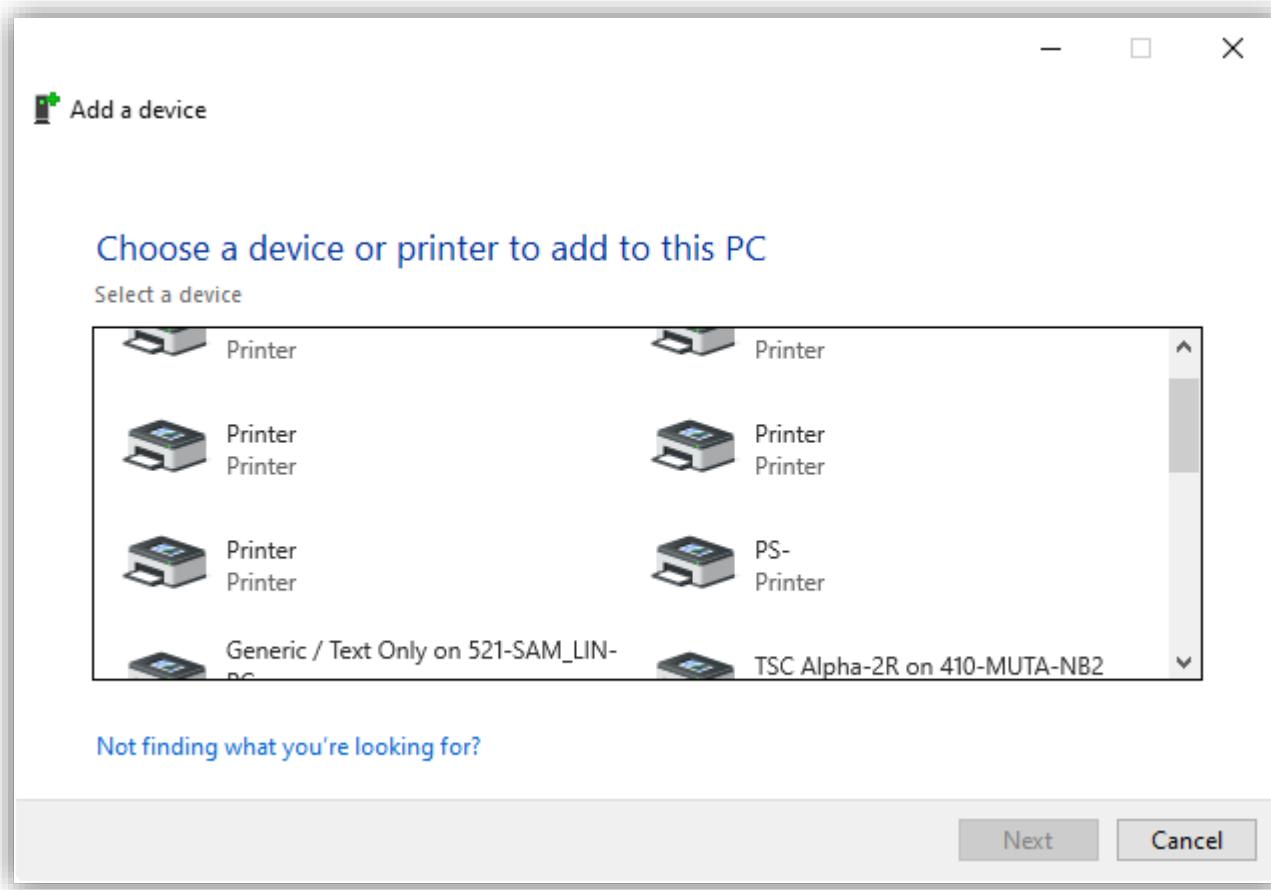
### RS232:

- Use COM Port through the computer to connect to the printer.
- Select the corresponding COM Port and finish the setup.

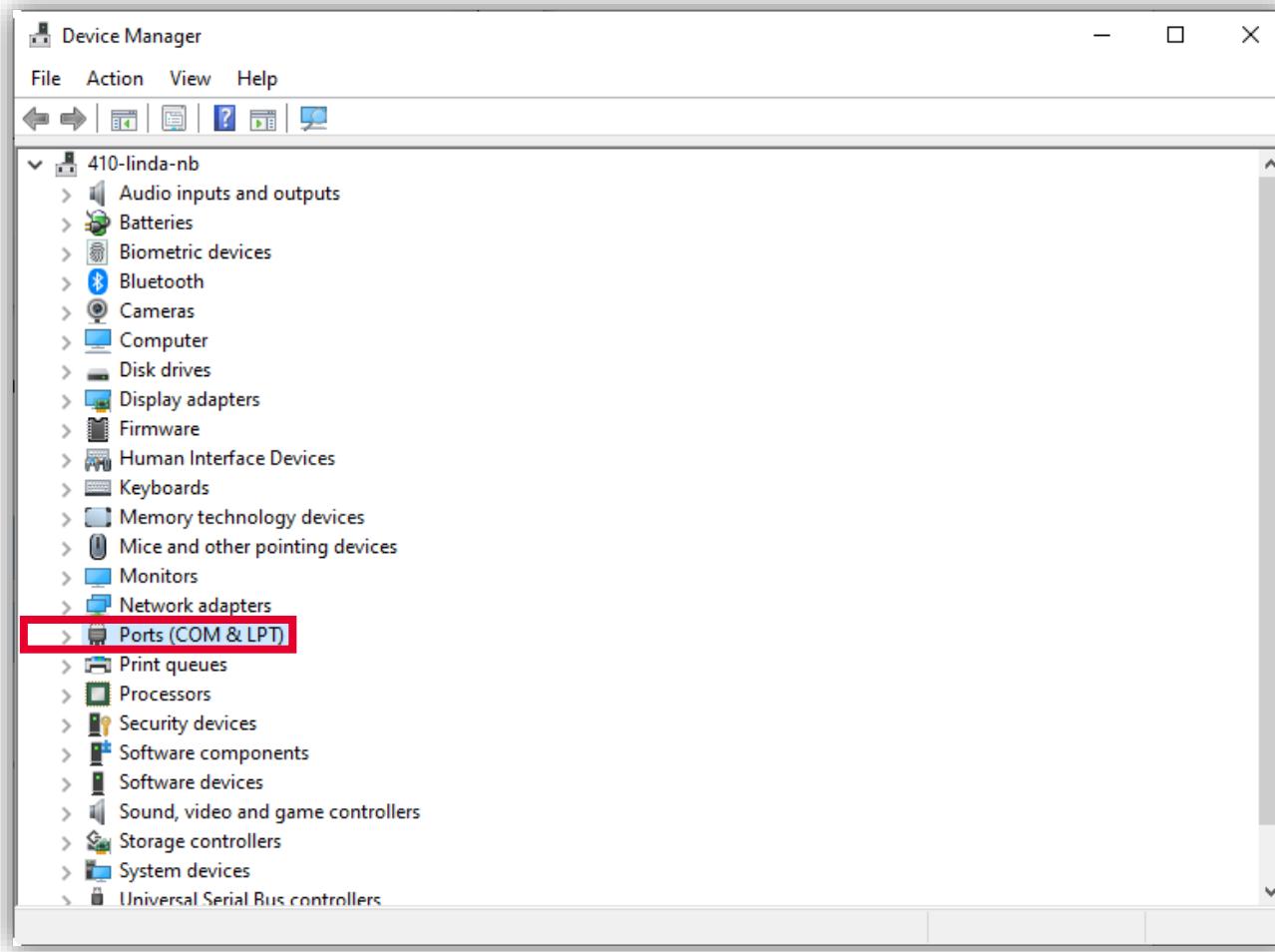


## Bluetooth:

- Control Panel>Hardware and Sound>Devices and Printers> Add Device (Select the Bluetooth name)



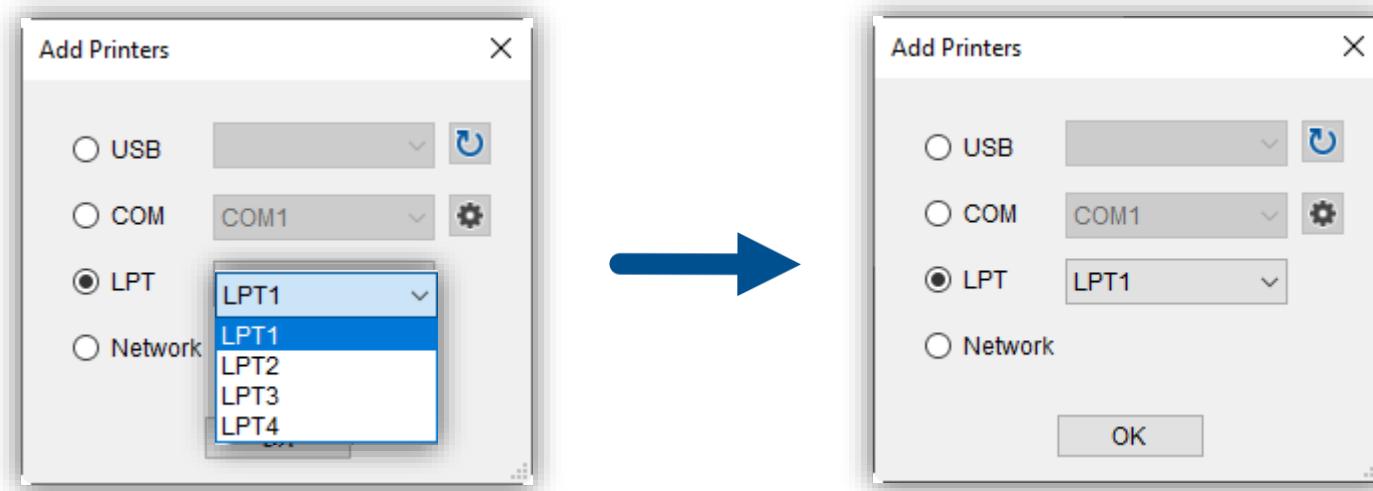
■ Control Panel>Hardware and Sound> Devices and Printers >Device Manager (Check COM Port)



- Select the corresponding Com Port on TSC Console.

## LPT:

- Select the LPT Port and click OK.

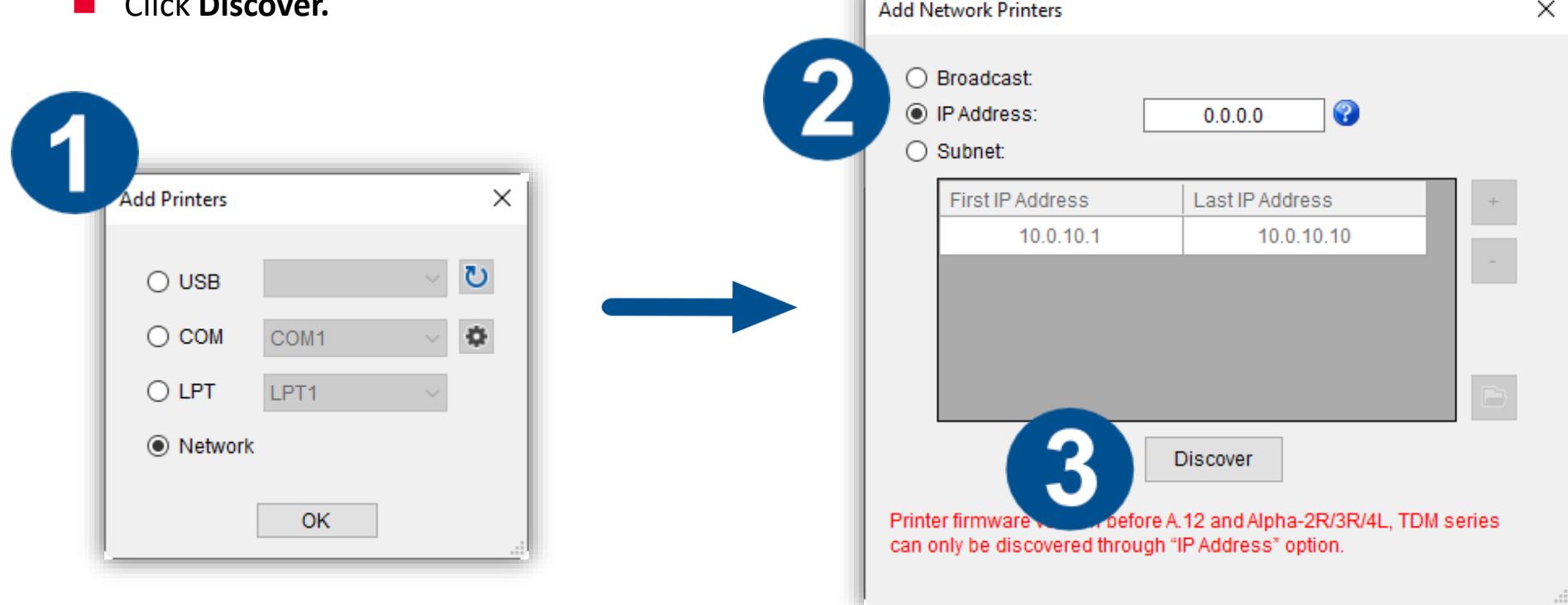


- ※ Printer LPT port is one way communication. It can not receive feedback of the info from the printer.

## Network (Ethernet and WiFi)

### Ethernet:

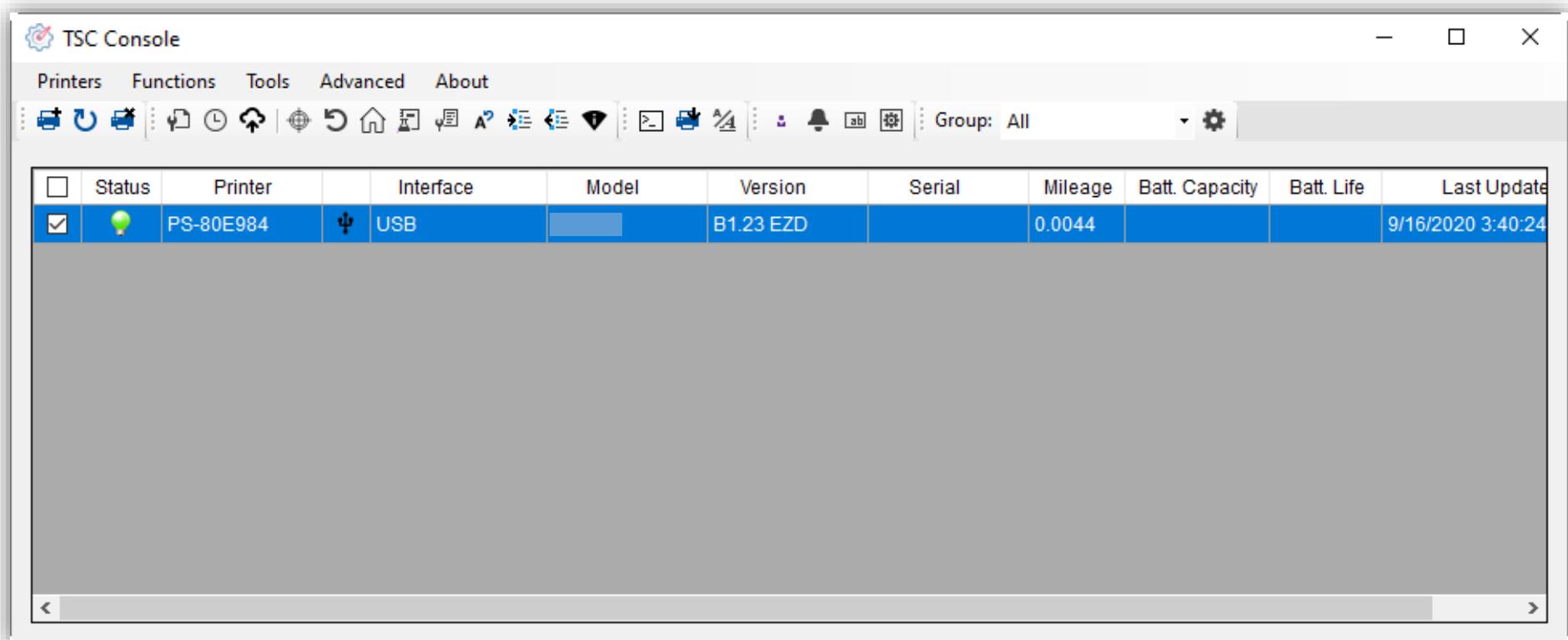
- Connect the ethernet cable to the Printer.
- Select **Network** and **ways of discovering ethernet**.
- Click **Discover**.



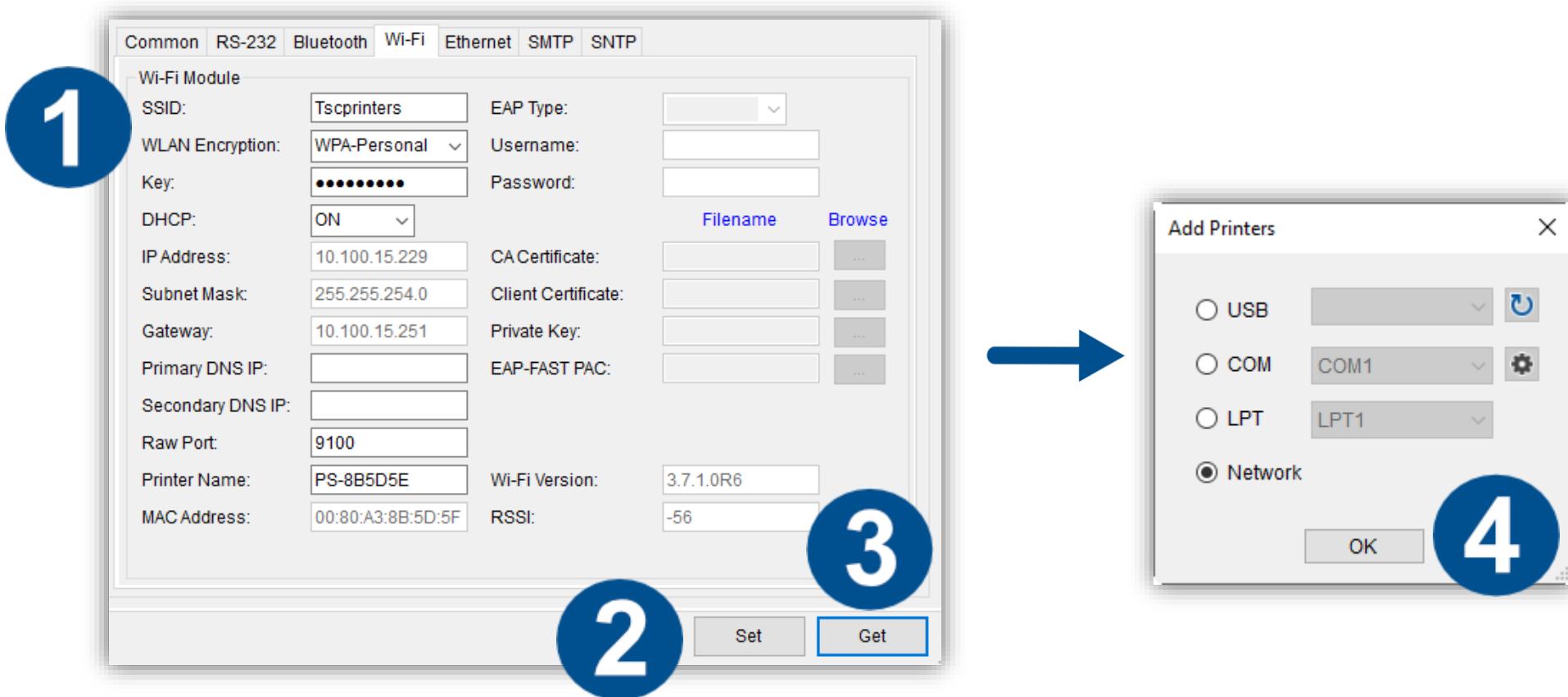
※ Printer firmware version before A.12 and Alpha-2R/3R/4L, TDM series can only be discovered through "IP Address" option.

## WiFi:

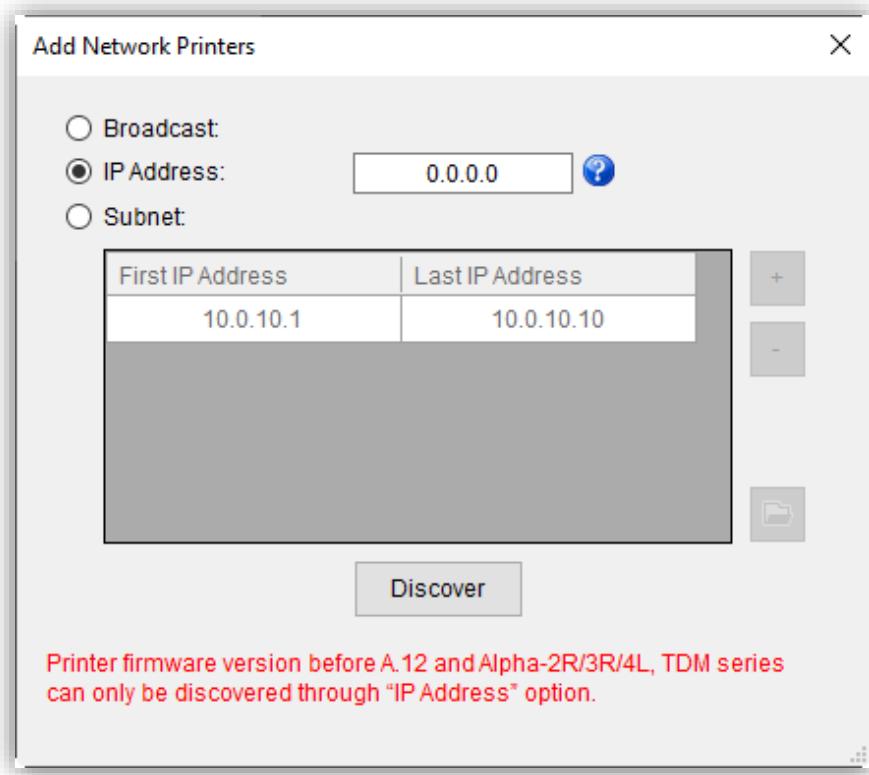
- Use **USB** or **COM Port** to set up the interface.
- **Double Click the Status Bar to enter into Printer Configuration.**



- Click **Get** to receive printer's info and finish WiFi setting by clicking **WiFi tab**.
- Click **Set** and the printer will reset.
- Click **Get** to ensure printer has connected to WiFi.
- Return to the **Add Printers** dialog box and click **Network**.

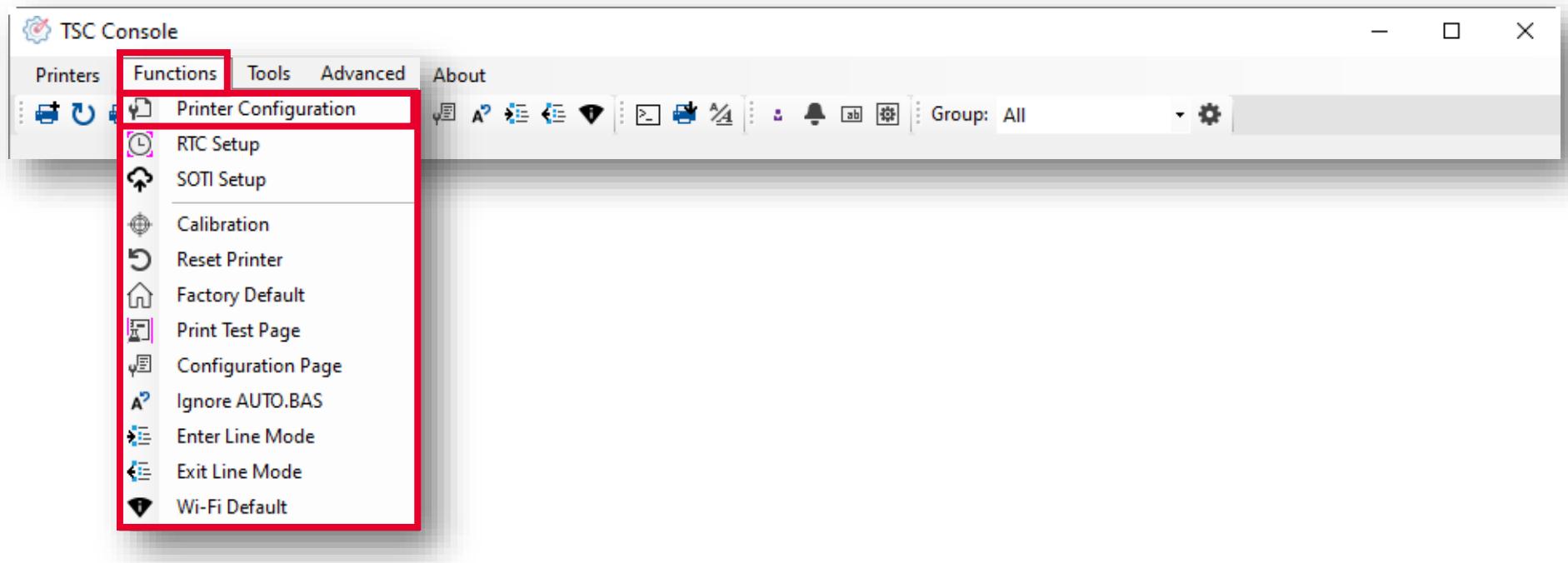


## ■ Select ways of discovering the WiFi devices.

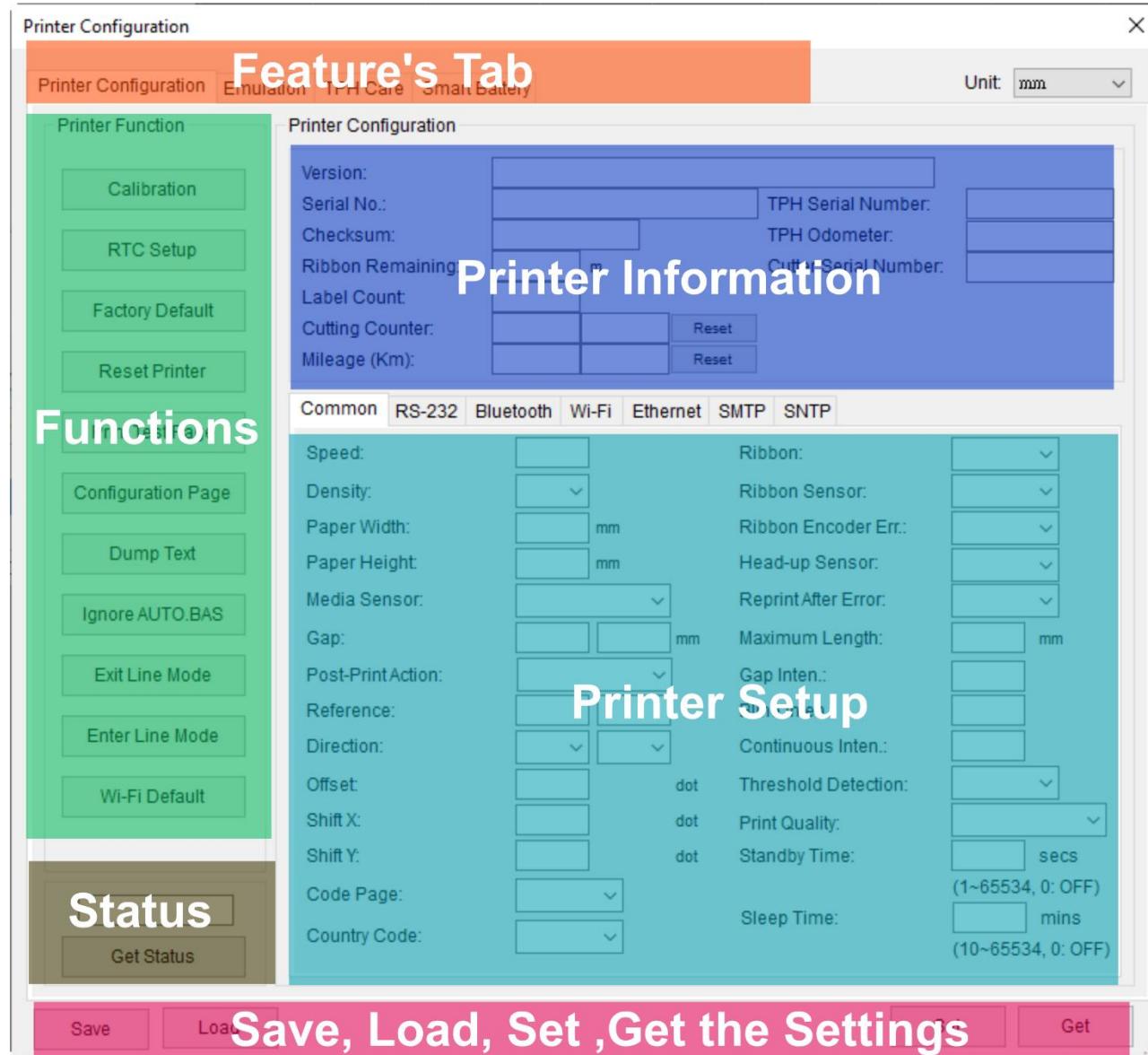


- Click **Discover** to find the corresponding printer.
- ※ Printer firmware version before A.12 and Alpha-2R/3R/4L, TDM series can only be discovered through "IP Address" option.

## 4. Printer Configuration and Functions

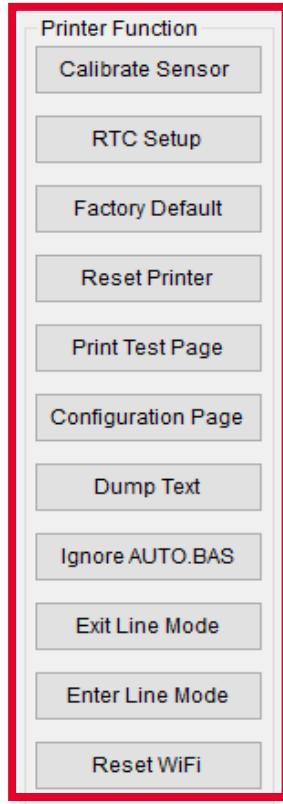


## 4.1 Printer Configuration Overview



## 4.2 Features Tab - Printer Configuration

### Printer Functions



Functions	Description
<b>Calibrate Sensor</b>	Detect media types and the size of the label
<b>RTC Setup</b>	Synchronize printer with Real Time Clock on PC
<b>Factory Default</b>	Initialize the printer to default settings
<b>Reset Printer</b>	Reboot printer
<b>Print Test Page</b>	Print test page according to the specified label size and sensor type
<b>Configuration Page</b>	Print printer configurations
<b>Dump Text</b>	Activate the printer to dump mode
<b>Ignore AUTO.BAS</b>	Ignore AUTO.BAS file when printer boot up
<b>Exit Line Mode</b>	Exit the line mode to page mode
<b>Enter Line Mode</b>	Leave page mode and enter line mode
<b>Reset WiFi</b>	Restore the WiFi settings to defaults

## Printer Information

Printer's firmware  
and hardware info

Printer Configuration

Version:		TPH Serial Number:
Serial No.		TPH Odometer:
Checksum:		Cutter Serial Number:
Ribbon:		
Label Count:		
Cutting Counter:		
Mileage (Km):		

Printhead and  
Cutter's info

Printing and  
Cutting info

The screenshot displays a user interface for printer management. At the top, a blue header bar contains the text "Printer's firmware and hardware info". Below this, a large central window is titled "Printer Configuration". This window contains several groups of text fields and labels. On the left, there are two columns of labels: "Version:", "Serial No.", and "Checksum" in the top row, and "Ribbon:", "Label Count", "Cutting Counter", and "Mileage (Km)" in the bottom row. To the right of these labels are corresponding text input fields. Further to the right, another column of labels includes "TPH Serial Number:", "TPH Odometer:", and "Cutter Serial Number:", each associated with its own text input field. At the bottom right of the configuration window, there are two "Reset" buttons. Below the main configuration window, there are two additional blue boxes. The left one is labeled "Printing and Cutting info" and the right one is labeled "Printhead and Cutter's info".

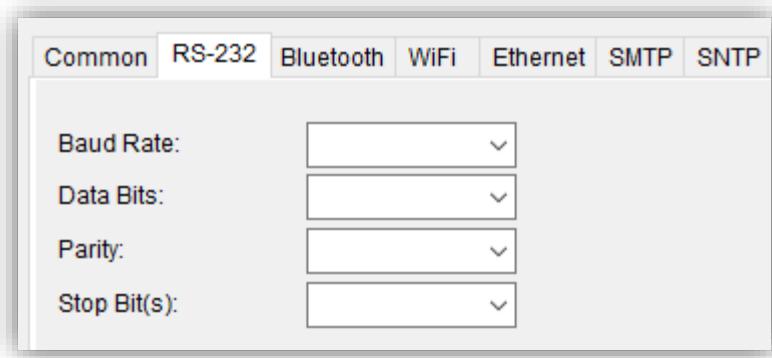
## Printer Setup - Common

The screenshot shows the 'Common' tab of the Printer Setup interface. The interface is organized into several sections:

- Set printing speed and density**: Includes fields for Speed (dropdown) and Density (dropdown).
- Set media's size**: Includes fields for Paper Width (dropdown) and Paper Height (dropdown), both measured in mm.
- Set media sensor and gap value**: Includes fields for Media Sensor (dropdown), Gap (dropdown), Post-Print Action (dropdown), Reference (dropdown), Direction (dropdown), Offset (dropdown), Shift X (dropdown), Shift Y (dropdown), Code Page (dropdown), and Country Code (dropdown).
- Set printer behaviors**: Includes fields for Ribbon (dropdown), Ribbon Sensor (dropdown), Ribbon Encoder Err. (dropdown), Head-up Sensor (dropdown), Reprint After Error (dropdown), Maximum Length (dropdown), Gap Inten. (dropdown), Bline Inten. (dropdown), Continuous Inten. (dropdown), Threshold Detection (dropdown), Print Quality (dropdown), Standby Time (dropdown), and Sleep Time (dropdown).
- Set intensity of media sensor**: Includes fields for Intensity (dropdown), Bline Intensity (dropdown), and Continuous Intensity (dropdown).
- Exclusive settings for mobile printer**: Includes fields for Standby Time (secs) (dropdown) and Sleep Time (mins) (dropdown). The Sleep Time field has a note: "(10~65534, 0: OFF)".

At the bottom right are 'Set' and 'Get' buttons.

## Printer Setup - RS232



The image shows a screenshot of a printer setup interface. At the top, there is a horizontal navigation bar with tabs: Common, RS-232, Bluetooth, WiFi, Ethernet, SMTP, and SNTP. The 'RS-232' tab is currently selected and highlighted in blue. Below the tabs, there is a configuration section for serial port settings. This section contains four dropdown menus, each with a small downward arrow icon on its right side. The labels for these dropdowns are: 'Baud Rate:', 'Data Bits:', 'Parity:', and 'Stop Bit(s):'. The entire configuration panel has a light gray background and is enclosed in a thin gray border.

Baud Rate:	<input type="button" value="▼"/>
Data Bits:	<input type="button" value="▼"/>
Parity:	<input type="button" value="▼"/>
Stop Bit(s):	<input type="button" value="▼"/>

## Printer Setup - Bluetooth

The screenshot shows the 'Bluetooth' tab of the Printer Setup interface. The top navigation bar includes tabs for Common, RS-232, Bluetooth (which is selected), Wi-Fi, Ethernet, SMTP, and SNTP.

**Built-in Bluetooth Information:** This section contains five input fields: BT Name, BT Pair Mode, BT Pin Code, BT MAC Address, and BT Version. A red box highlights this entire section. A blue arrow points from this section to a blue box labeled "Bluetooth infomation".

**External Bluetooth Module:** This section contains a single button labeled "Setup". A red box highlights this section. A blue arrow points from this section to a blue box labeled "Setup for External Bluetooth Module".

**XPico270 Module:** This section contains two buttons: "Enable BT" and "Disable BT". A red box highlights this section. A blue arrow points from this section to a blue box labeled "Enable/Disable the Bluetooth on Xpico WiFi+BT combo module".

At the bottom of the interface are two buttons: "Set" and "Get".

**Bluetooth infomation**

**Setup for External Bluetooth Module**

**Enable/Disable the Bluetooth on Xpico WiFi+BT combo module**

## Printer Setup- WiFi

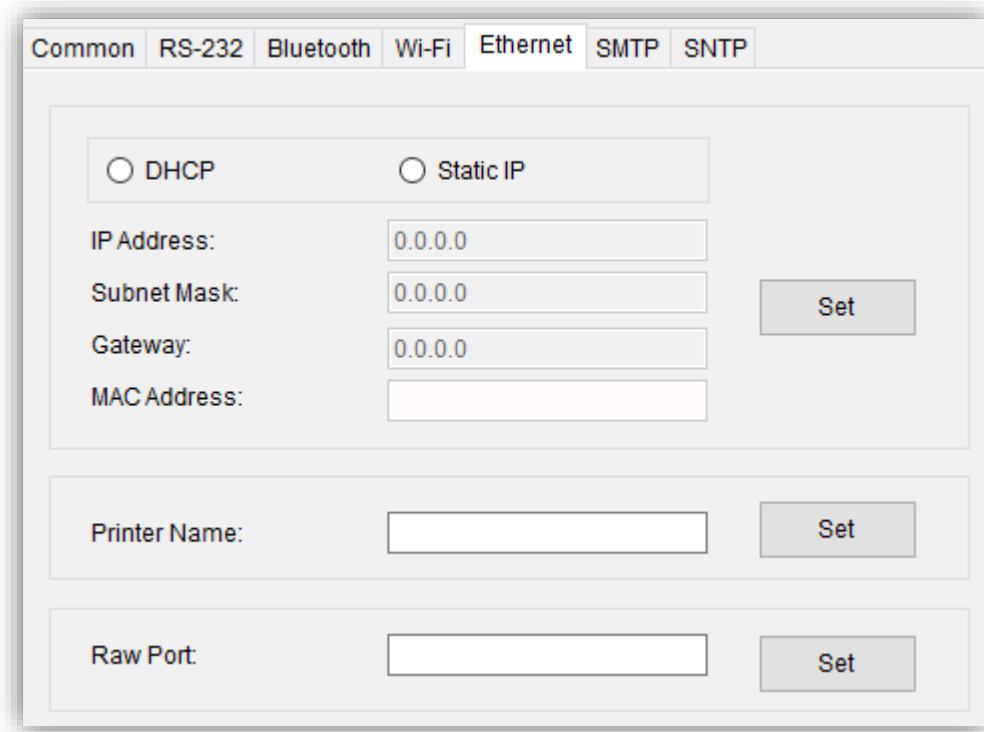
Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Wi-Fi Module

SSID:	<input type="text"/>	EAP Type:	<input type="text"/>
WLAN Encryption:	<input type="text"/>	Username:	<input type="text"/>
Key:	<input type="text"/>	Password:	<input type="text"/>
DHCP:	<input type="text"/>	CA Certificate:	<input type="text"/> <a href="#">Browse</a>
IP Address:	0.0.0.0	Client Certificate:	<input type="text"/> <a href="#">...</a>
Subnet Mask:	0.0.0.0	Private Key:	<input type="text"/> <a href="#">...</a>
Gateway:	0.0.0.0	EAP-FAST PAC:	<input type="text"/> <a href="#">...</a>
Primary DNS IP:	0.0.0.0	Wi-Fi Version:	<input type="text"/>
Secondary DNS IP:	0.0.0.0	RSSI:	<input type="text"/>
Raw Port:	<input type="text"/>		
Printer Name:	<input type="text"/>		
MAC Address:	<input type="text"/>		

[Filename](#) [Browse](#)

## Printer Setup- Ethernet



The screenshot shows a printer setup interface for Ethernet configuration. At the top, there is a navigation bar with tabs: Common, RS-232, Bluetooth, Wi-Fi, Ethernet (which is selected and highlighted in blue), SMTP, and SNTP. Below the tabs, there are two radio button options: "DHCP" and "Static IP". Under "DHCP", there is a note "IP Address: 0.0.0.0". Under "Static IP", there are fields for "IP Address" (0.0.0.0), "Subnet Mask" (0.0.0.0), "Gateway" (0.0.0.0), and "MAC Address" (empty). To the right of these fields is a "Set" button. Below this section, there is a "Printer Name:" field with an empty input box and a "Set" button. At the bottom, there is a "Raw Port:" field with an empty input box and a "Set" button.

<input type="radio"/> DHCP	<input type="radio"/> Static IP
IP Address:	0.0.0.0
Subnet Mask:	0.0.0.0
Gateway:	0.0.0.0
MAC Address:	
Printer Name: <input type="text"/>	
Raw Port: <input type="text"/>	

## Printer Setup- SMTP (Ethernet Only)

### SMTP (Simple Mail Transfer Protocol)

When setup is completed, printer will automatically send receiver a mail of notification in case the printer is in error state.

The screenshot shows a software interface for configuring printer settings. At the top, there is a horizontal navigation bar with tabs: Common, RS-232, Bluetooth, WiFi, Ethernet, SMTP, and SNTP. The 'SMTP' tab is currently selected, indicated by a blue border around it. Below the tabs, the configuration area is organized into several sections:

- SMTP Server:** A text input field for entering the SMTP server address.
- SMTP Authentication:** A section containing two radio buttons: "Disable" and "Enable". If "Enable" is selected, it reveals two additional fields: "User Name:" and "Password:", each with its own text input field.
- Sender E-mail Address:** A text input field for the sender's email address.
- Receiver E-mail Address:** A text input field for the receiver's email address.
- Error Notification:** A section with two radio buttons: "On" and "Off".
- Notify Mileage Interval:** A text input field followed by a unit indicator "Km".

## Printer Setup- SNTP (Ethernet Only)

### SNTP = Simple Network Time Protocol

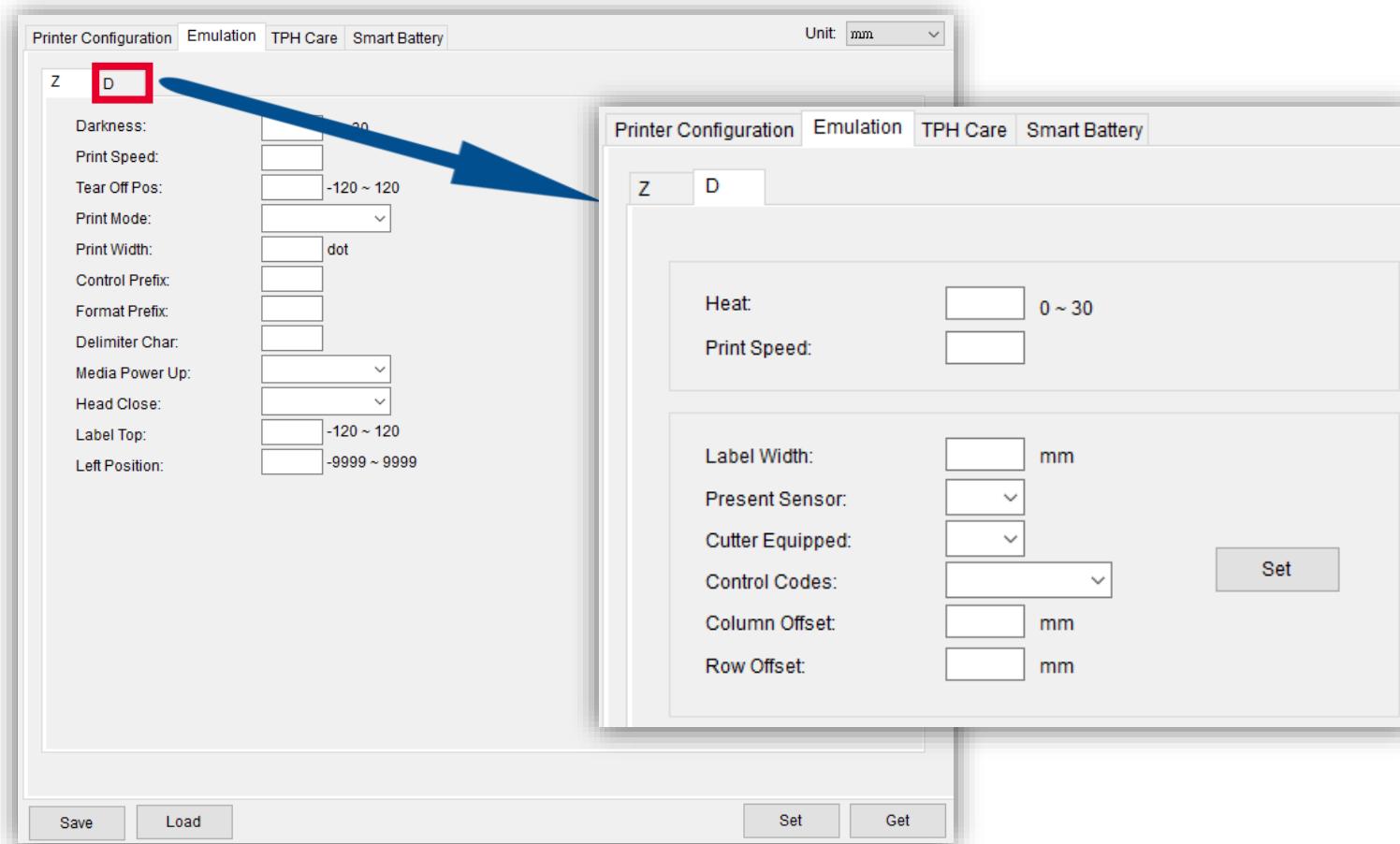
This function could sync printer system clock with ethernet timing.

The screenshot shows a software interface for printer setup. At the top, there is a horizontal navigation bar with tabs: Common, RS-232, Bluetooth, Wi-Fi, Ethernet, SMTP, and SNTP. The SNTP tab is currently selected, indicated by a thicker border and a white background. Below the tabs, the SNTP configuration options are displayed:

- Synchronize Clock:** Two radio buttons labeled "ON" and "OFF".
- SNTP Server 1:** A text input field.
- SNTP Server 2:** A text input field.
- SNTP Server 3:** A text input field.
- Update Interval:** Two input fields for "Hour" and "Minute", followed by the text "(Ethernet Only)".
- Time Zone:** A dropdown menu.

## 4.3 Features Tab- Emulation

Emulation provides **ZPL** and **DPL** language setting on **TSC printers**.



## 4.4 Features Tab – TPH Care

**TPH Care** could check condition of the print head. Set the failure dots threshold for indicating errors when the threshold is reached.

To enable (ON)/ disable (OFF) the TPH Care

To check the unhealthy dots and relative position.

Warning Condition: If the unhealthy dot equals to this value, then printer will stop printing.

TPH Care Auto Protection: OFF

Unhealthy TPH dot number: (Current) 0

Unhealthy TPH dot number: (Warning Condition) 1

Get TPH care profile

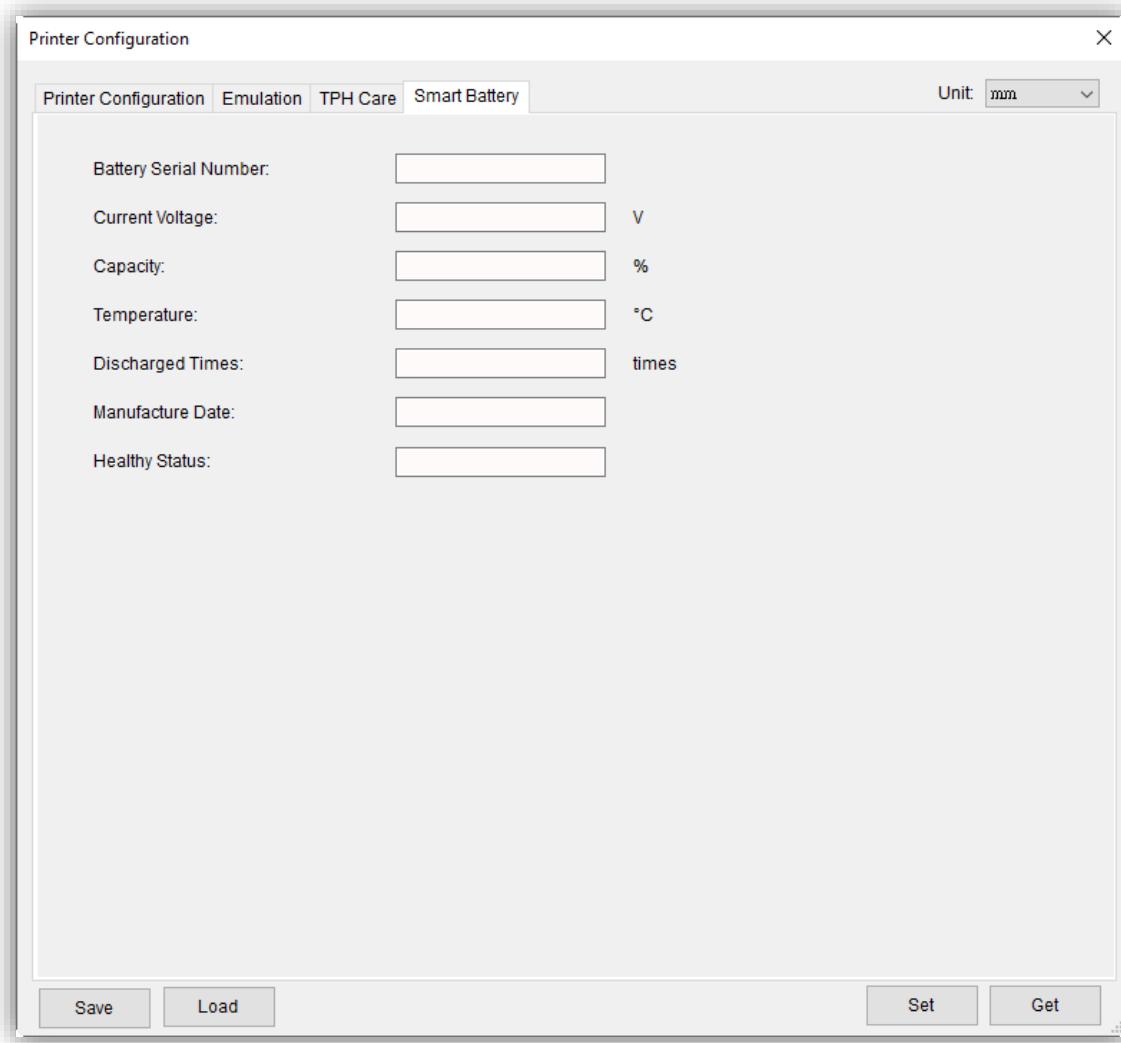
TPH Test Page

To detect the unhealthy TPH dot.

To print TPH test image to check the TPH printing status.

## 4.5 Features Tab – Smart Battery

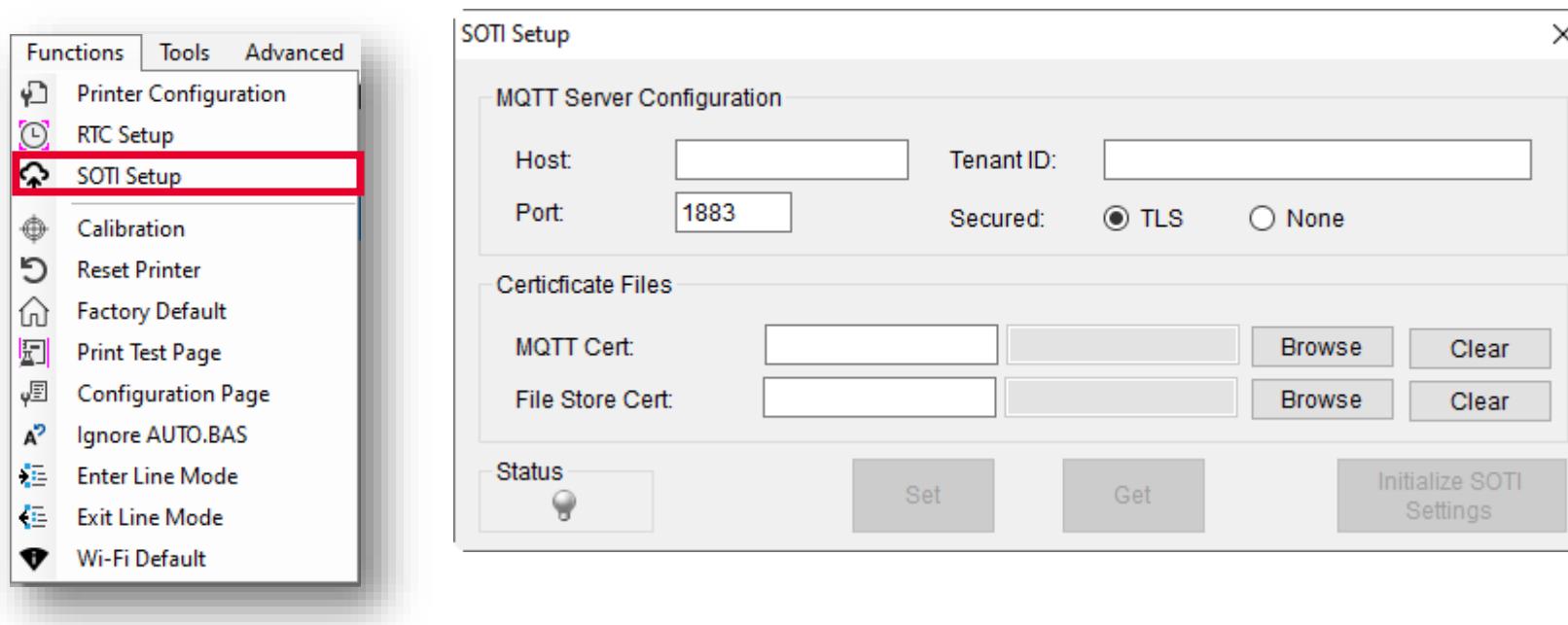
**Smart Battery** shows the battery information of the printer (**Mobile Printers Only.**)



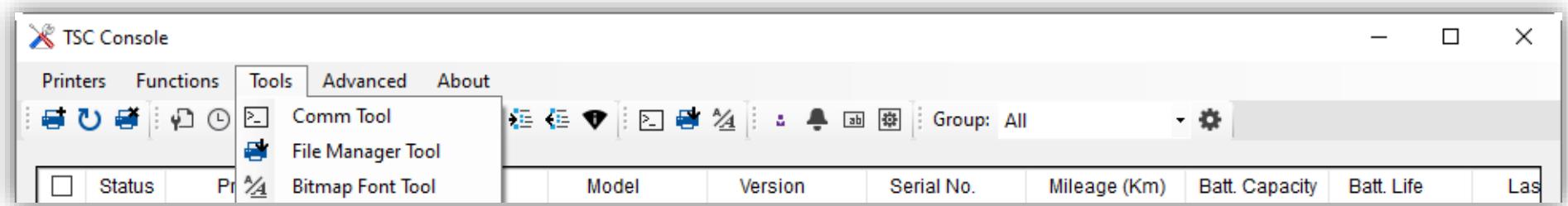
## 4.6 SOTI Setup

This function could setup the required parameters for printers to work with **SOTI Connect**.

- ※ Once the printer connect to the SOTI, the bulb of the statues would turn into green.



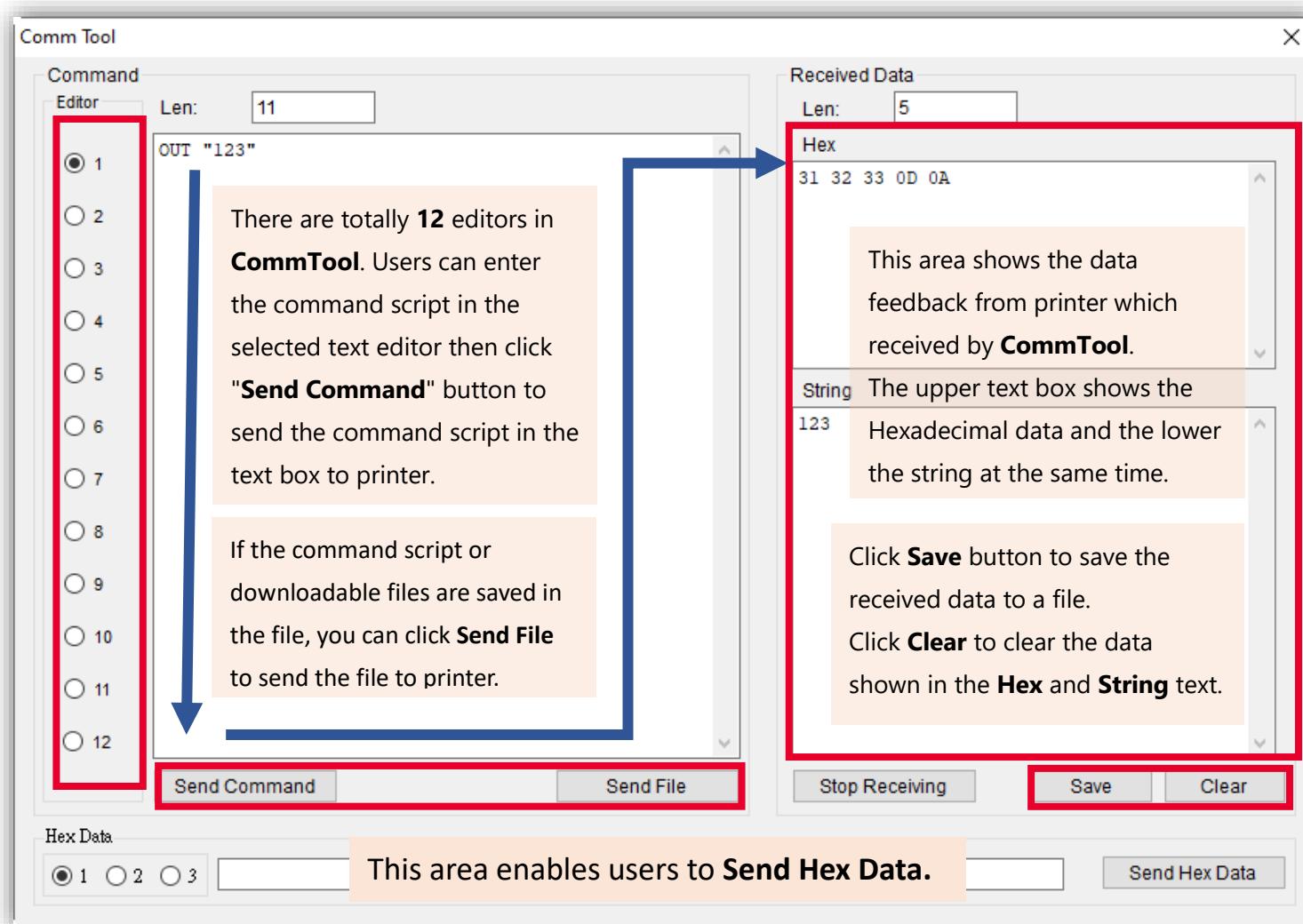
## 5. Tools



In this section, users are able to set up the printer by **Comm Tool**, or download and edit the files by **File Manager** and **Bitmap Font Manager**.

## 5.1 CommTool

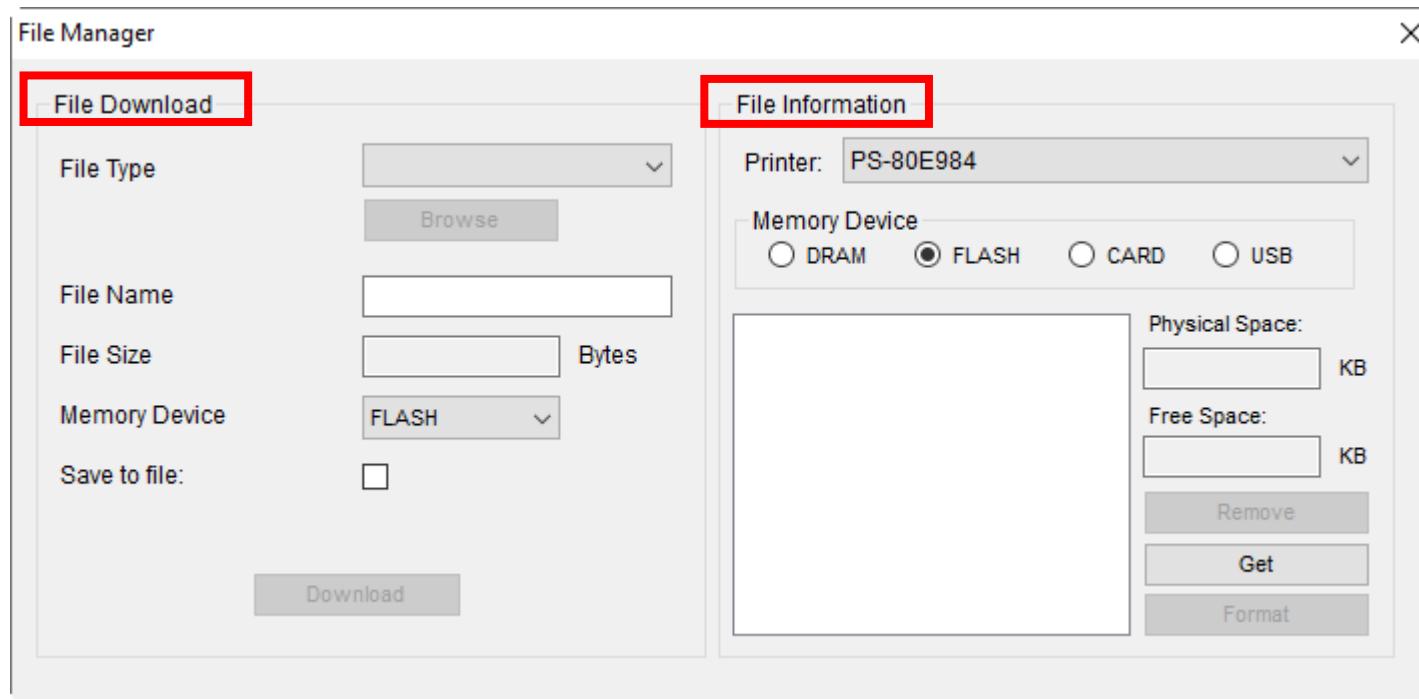
CommTool supports programming languages and the hex data commands.



## 5.2 File Manager

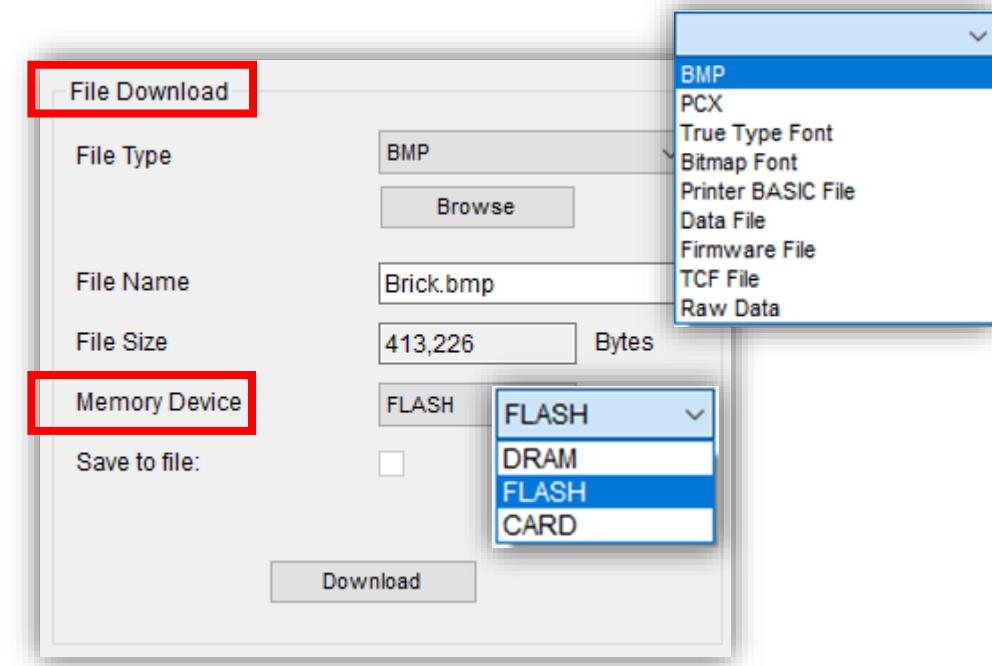
**File Manager** helps users download files and delete files from printers' memory.

- **File Download** shows the interface for selecting file types, filename and download destination.
- **File Information** can indicate downloaded files and available memory, deleting files in the selected memory device.



## Download Files

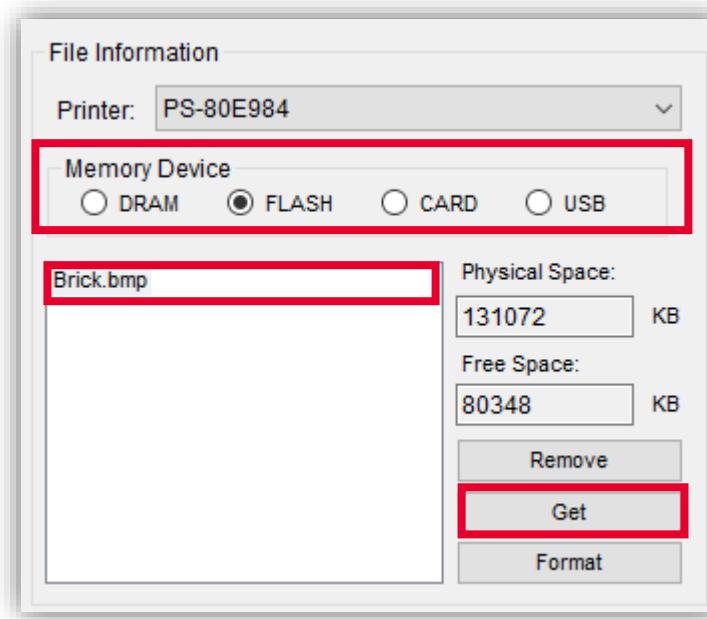
- Choose the **File Type**.
- Select **Browse** to find the file.
- Specify the **Memory Device** to be stored with.
- Import file to printer by clicking **Download**.



- ※ **BPM, PCX, True Type Font, Bitmap Font, Printer BASIC File, and Data File** will automatically generate the header and save to specified memory device through **File Manager** before downloading.
- ※ Enable **Save to File** could save the file to memory device as well.

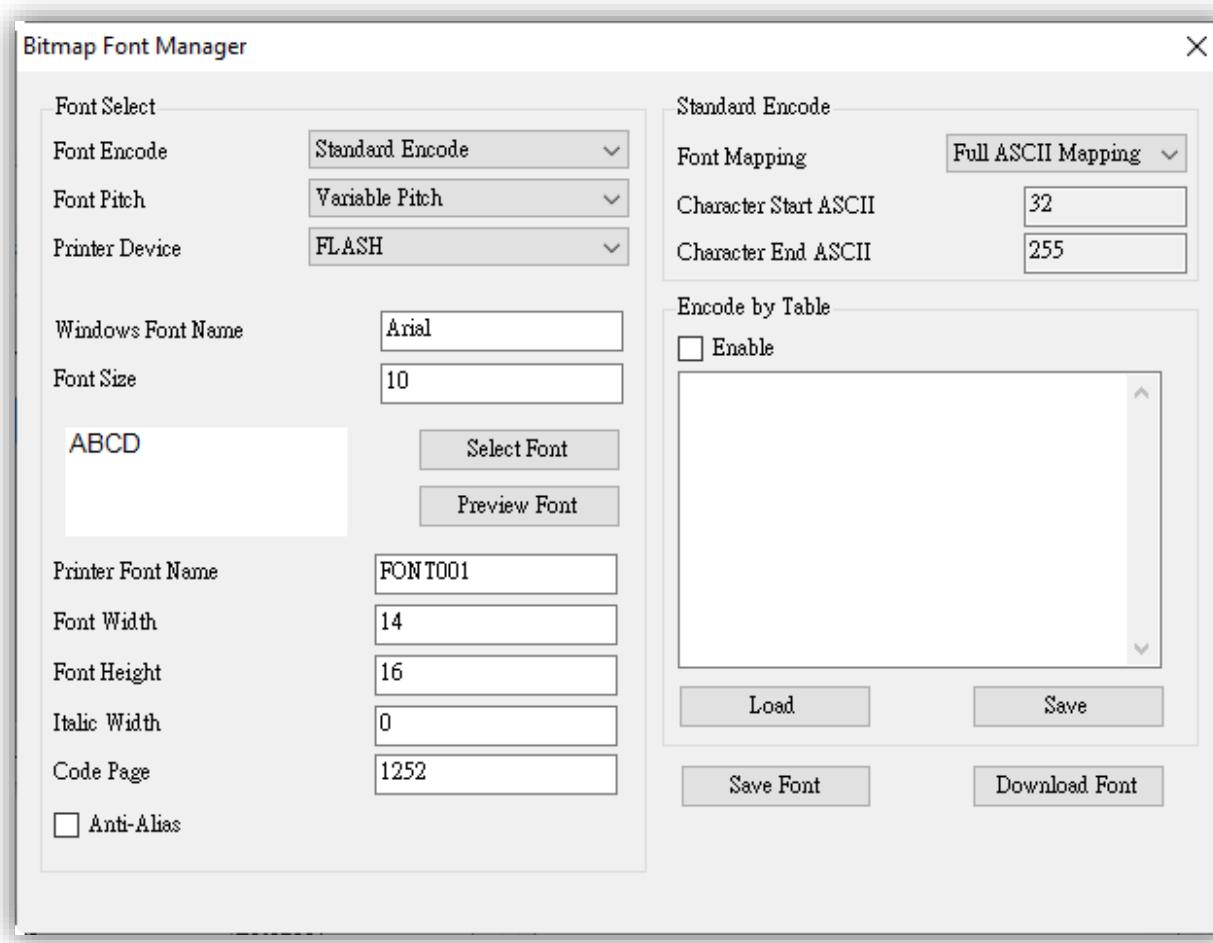
## Edit the Storage

- Specify the **Memory Device** and click **Get**.
- Delete the file by clicking **Remove**.
- Click **Format** to clean the memory.



## 5.3 Bitmap Font Manager

**Bitmap Font Manager** could convert the selected TTF font into printer format bitmap font. Both fixed pitch and variable pitch bitmap font are supported.



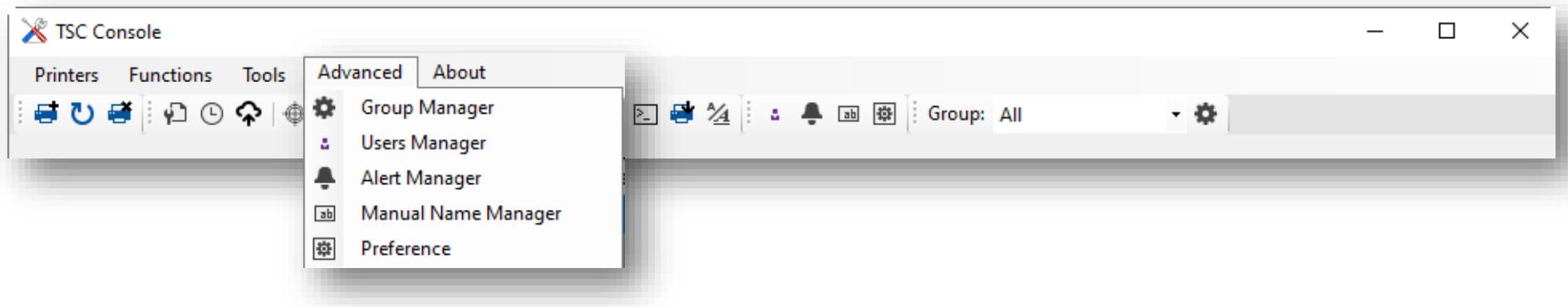
## Download Fonts to Printer

- Set up font setting and **Printer Device**.
- Select Font and size.
- Click **Download Font**.
- Check **File Manager**.

The image displays three windows from a software application used for managing printer fonts:

- Font Select Dialog:** Shows settings for "Font Select", "Font Encode" (Standard Encode), "Font Pitch" (Variable Pitch), and "Printer Device" (FLASH, highlighted with a red box).
- Font Selection Dialog:** Displays a list of fonts including @Arial Unicode MS, @DFKai-SB, @Malgun Gothic, @Microsoft Jhenghi, and @Microsoft Jhenghi. The font "Arial" and size "10" are selected. The "Select Font" button is highlighted with a red box.
- Main Application Window:** Shows "Encode by Table" options (Enable checkbox), "File Information" (Printer: PS-80E984, Memory Device: FLASH selected), and a "File Manager" section. In the File Manager, a font file "FONT001" is listed in the "Physical Space" (131072 KB) and "Free Space" (80726 KB). The "Get" button is highlighted with a red box.

## 6. Advanced

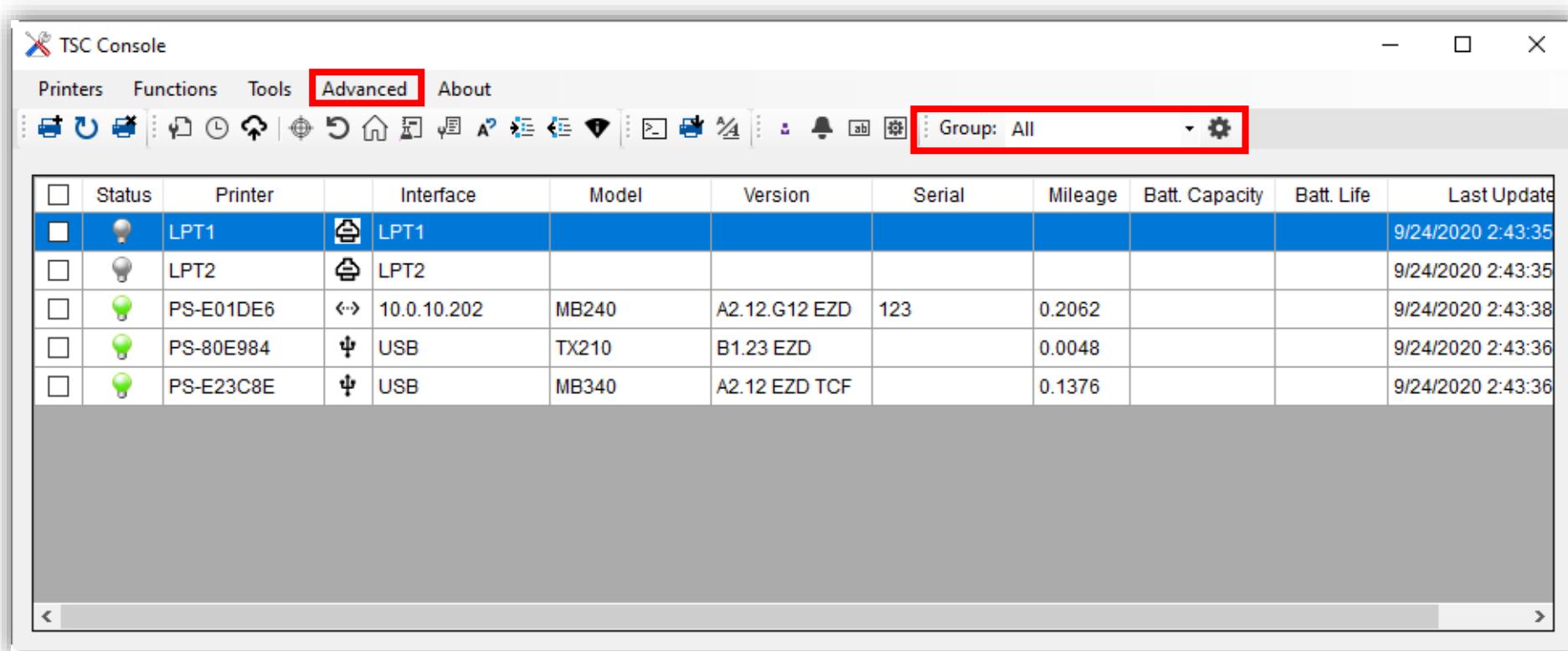


In **Advanced** section, users are able to set the group setting, set the password and alert, and adjust preference through TSC console to the printer.

## 6.1 Group Manager

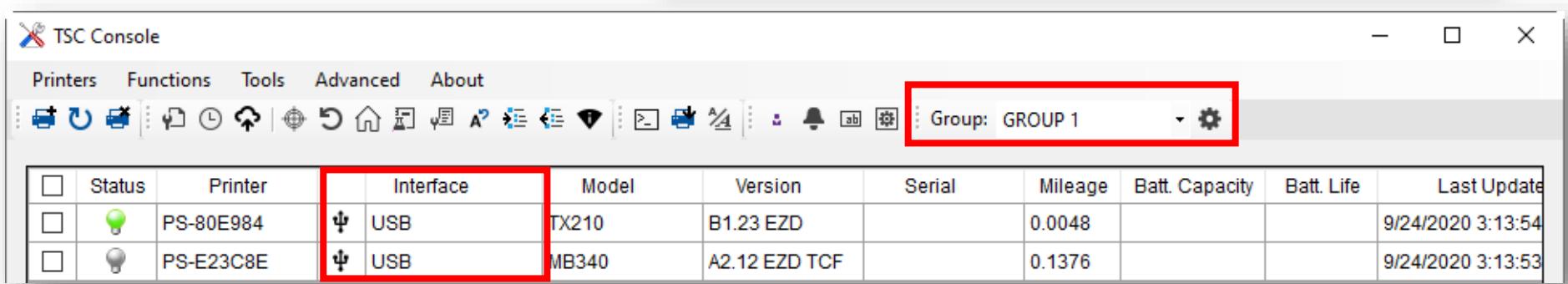
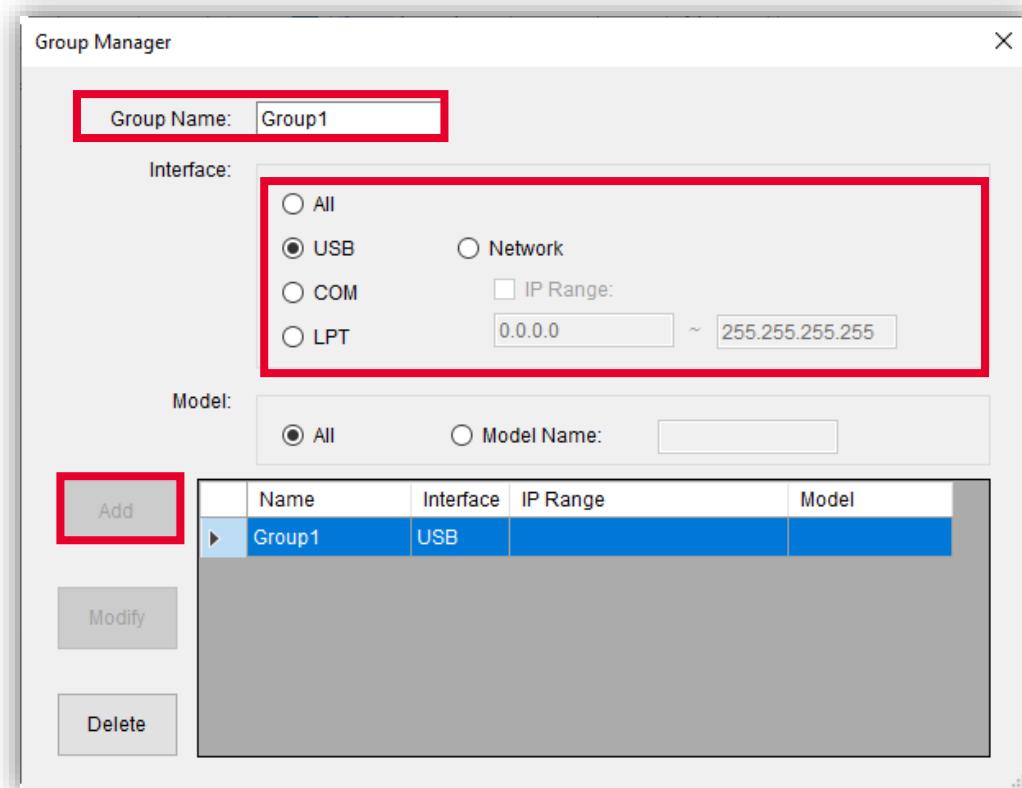
Use **Group Manager** to select and filter the certain interface to make it easier to setup printers.

Click **Advanced** to access **Group Manager** or click on the **Quick Access Icon** as below.



## Group the Certain Interface

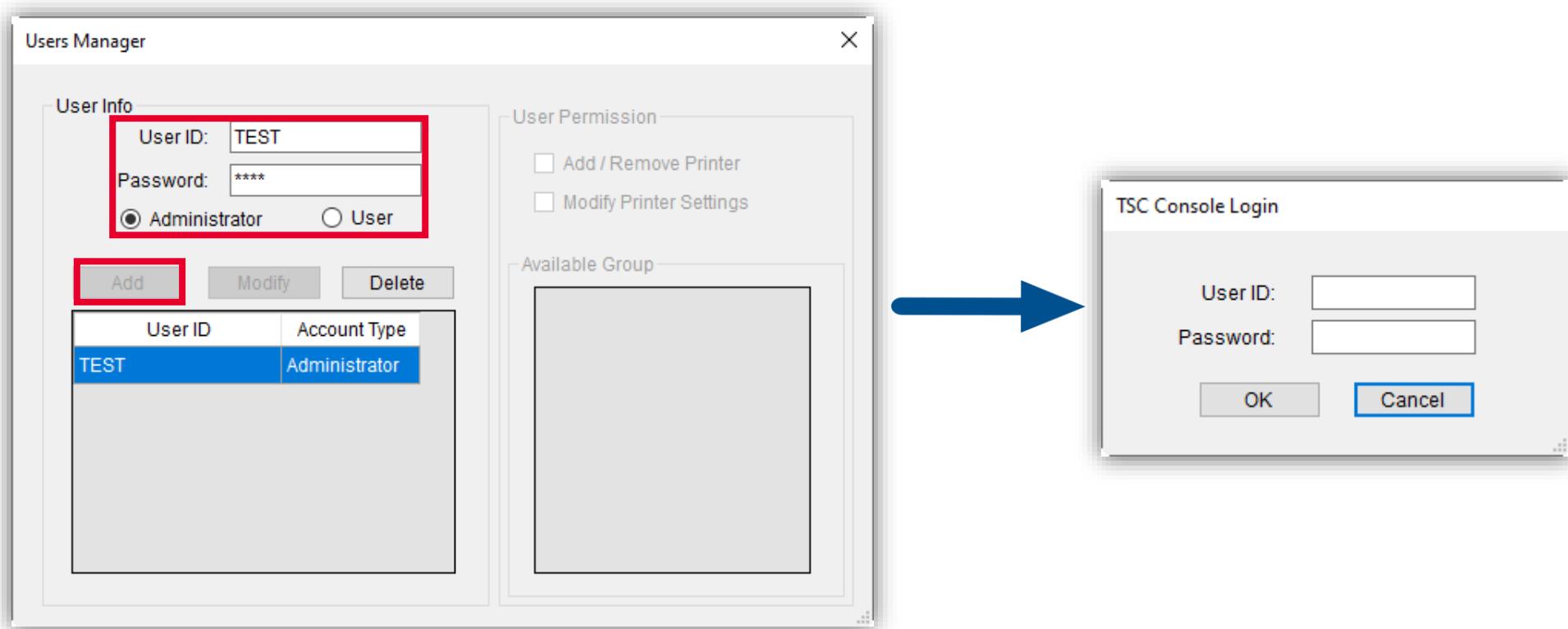
- Enter the **Group Manager**.
- Type the **Group Name**.
- Select the **Interface**.
- Click **Add** to complete setting.
- Back to interface and select **Group**.



## 6.2 Users Manager

This function allows user to set the password on **TSC Console** for protecting printers' setting.

- Enter the **User ID** and **Password**.
- Click **Add** to complete setup and **TSC Console will restart**.



## 6.3 Alert Manager

**Alert Manager** provide the records of printers' errors and status, making user understand printer's condition in certain period.

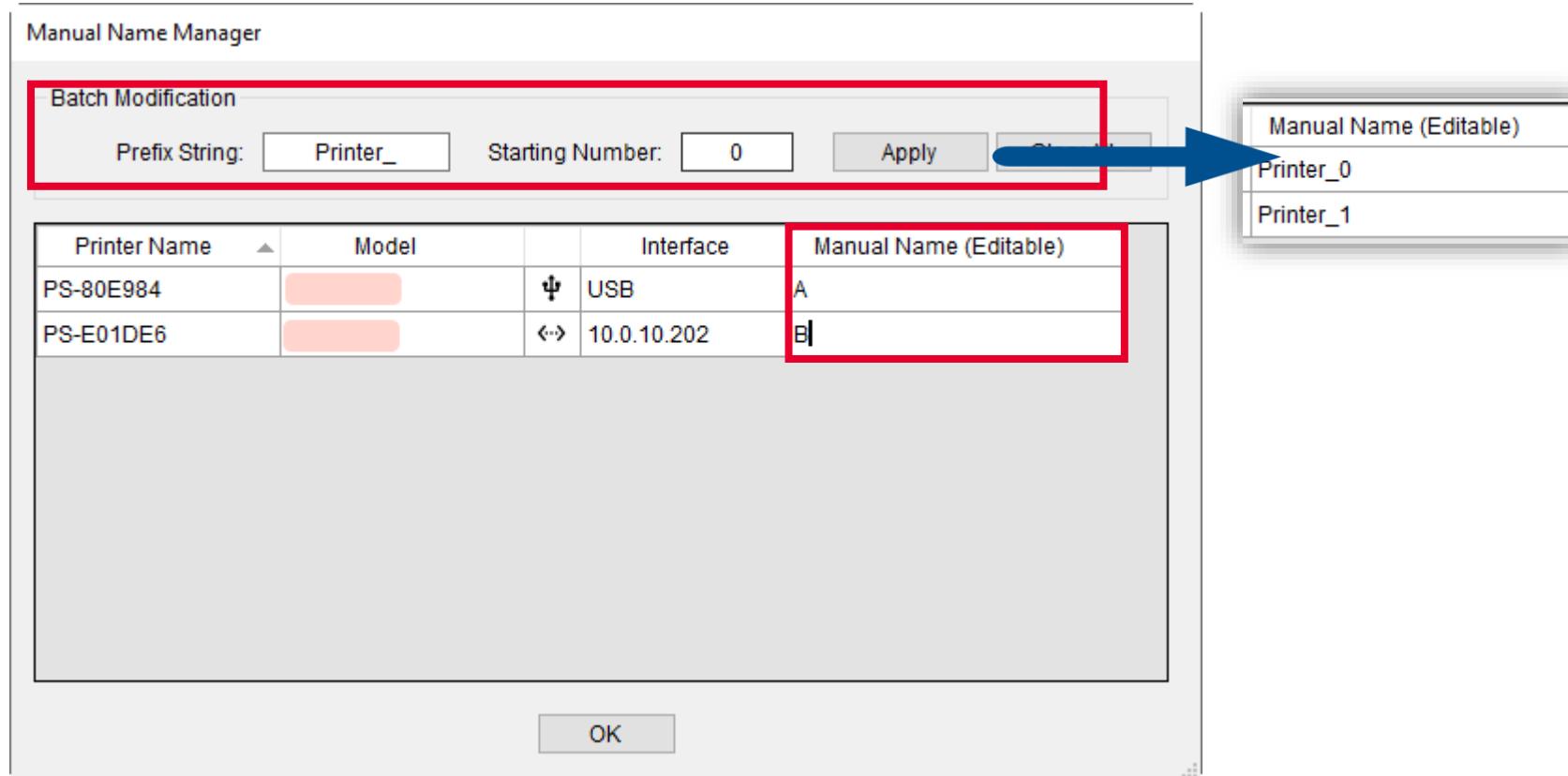
The screenshot shows the 'Alert Manager' application window. At the top, there are two date pickers: the first is set to '2020/08/25 16:15:12' and the second to '2020/09/24 16:15:12'. Below these are two filter sections: 'Printer Name' and 'Alert Type'. The 'Printer Name' section contains a dropdown menu with 'PS-80E984' selected. The 'Alert Type' section contains a dropdown menu with 'Out of Paper' selected. The main area is titled 'Alert Data' and displays a table with one row of data. The table has columns for Time, Printer Name, and Alert Type. The data row shows: Time - 9/17/2020 2:30:08 PM, Printer Name - PS-80E984, and Alert Type - Out of Paper. At the bottom, there are settings for Field separator (TAB Caracter (ASCII 09)) and Line separator (CR LF (ASCII 0D 0A)), along with 'Export' and 'Clear' buttons.

Time	Printer Name	Alert Type
9/17/2020 2:30:08 PM	PS-80E984	Out of Paper

## 6.4 Manual Name Manager

**Manual Name Manager** provides the function which could help users modify printers' name making it more recognizable.

- Edit the manual name by using **Batch Modification** or **double click the Manual Name Column**



## 6.5 Preference

Preference provide users functions to adjust system settings.

Preference

Run at Windows Startup

On/Off: OFF

Show Offline Printer

On/Off: ON

Auto Refresh Status

On/Off: ON

Time Interval: 5 min

Auto Renew IP Address

On/Off: ON

Subnet: Setup

Alert Log Retention Period

30 Days

Mainview Data Field

Model Name

Firmware Version

Serial Number

Printed Mileage

Smart Battery Capacity

Warning Threshold 20 %

Smart Battery Life

Last Update Time

Language

English

OK Cancel

