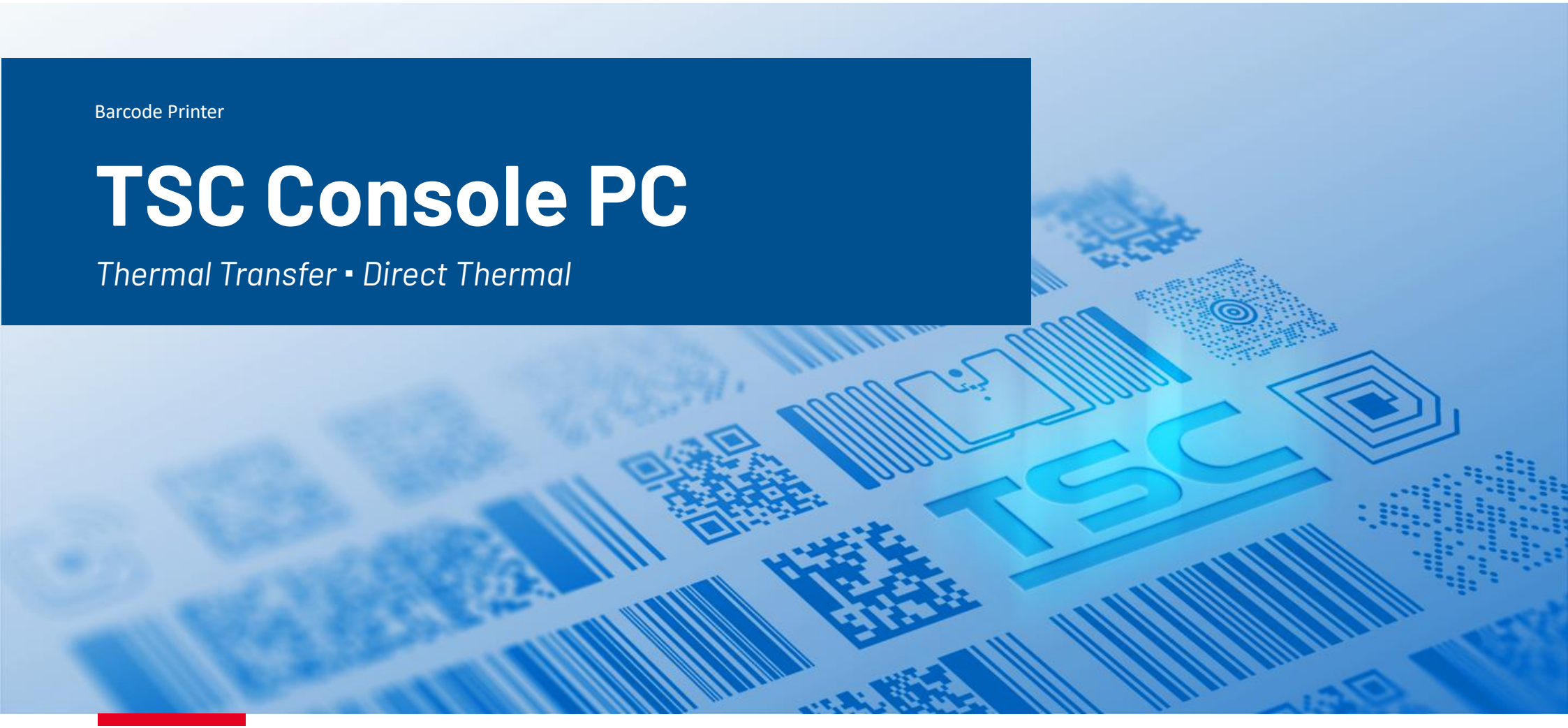
Barcode Printer

TSC Console PC

Thermal Transfer ▪ Direct Thermal



User Manual

www.tscprinters.com

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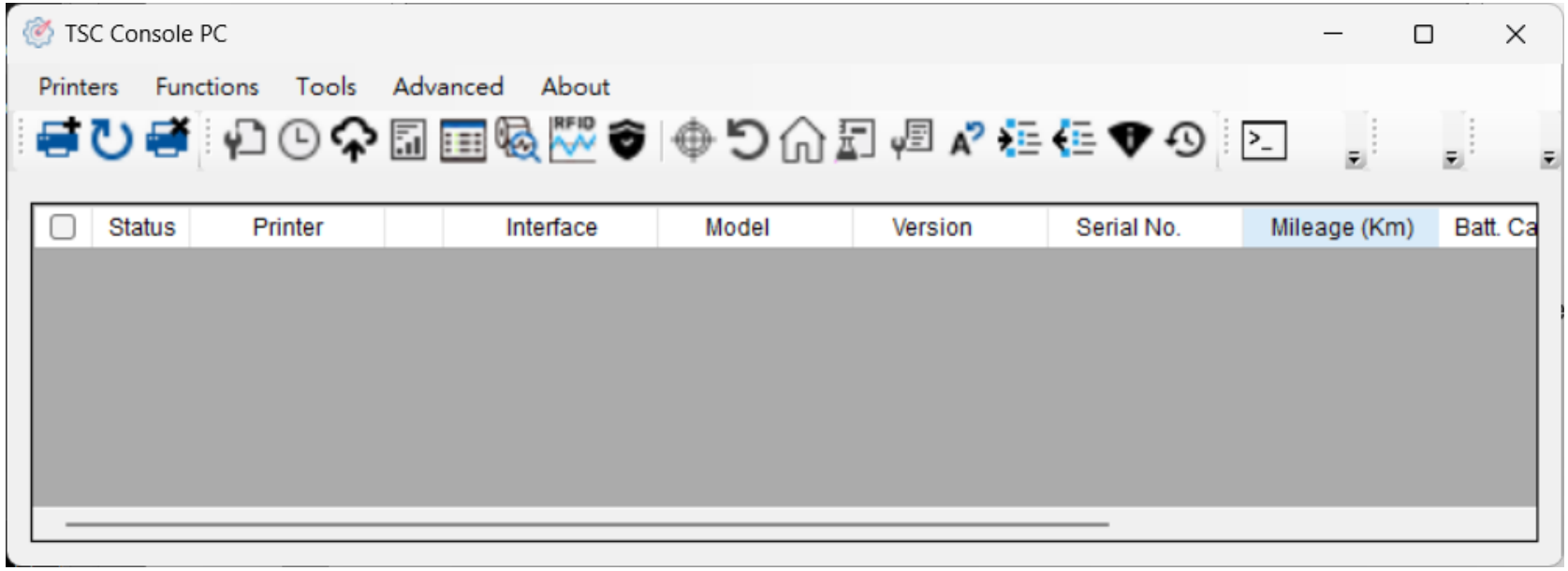
1. Introduction

TSC Console PC is a management tool combining the Printer Management, Diagnostic Tool, CommTool and Printer Webpage settings, which enables you to adjust printer's settings/status; change printers' settings; download graphics, deploy fonts, graphics, label templates or upgrade the firmware to the group of printers, and send additional commands to printers at the same time.

This manual provides the essential information and clear instructions for operating TSC Console PC. TSC Console PC can be found on TSC website at https://www.tscprinters.com

2. Getting Started

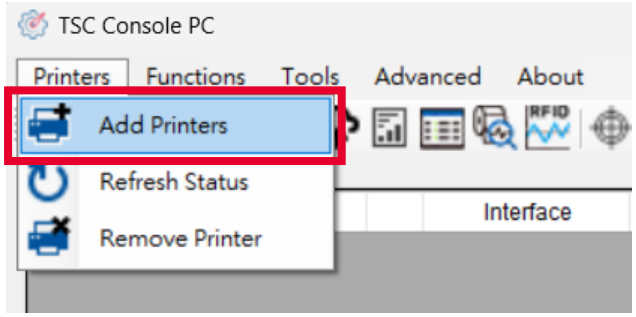
1. Unzip the TSC Console PC file.
2. Double click TSC Console PC icon to start the software.



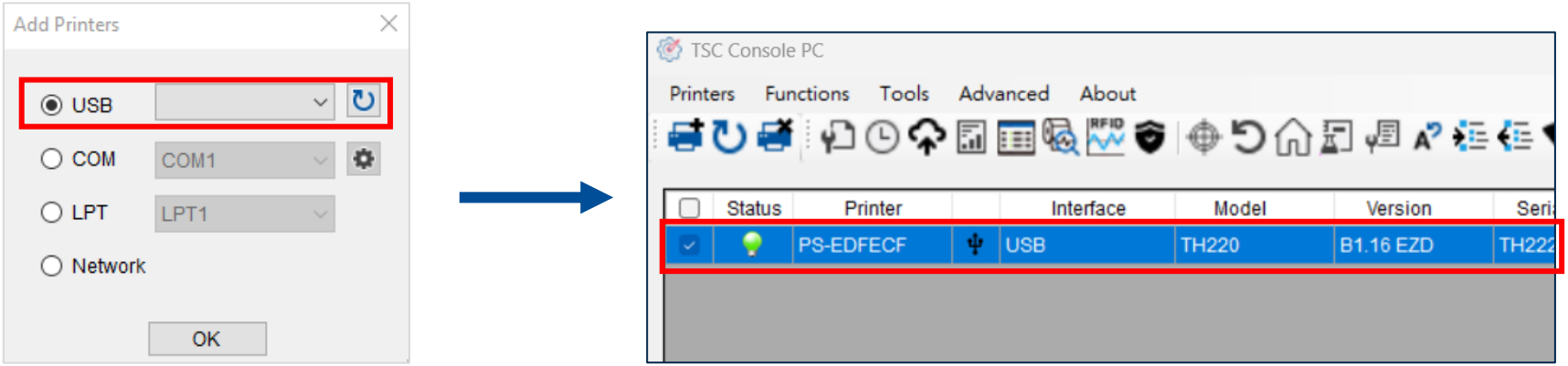
3. Interface Setup

3.1 USB

1. Click the **Printers** and select **Add Printers.** ( )



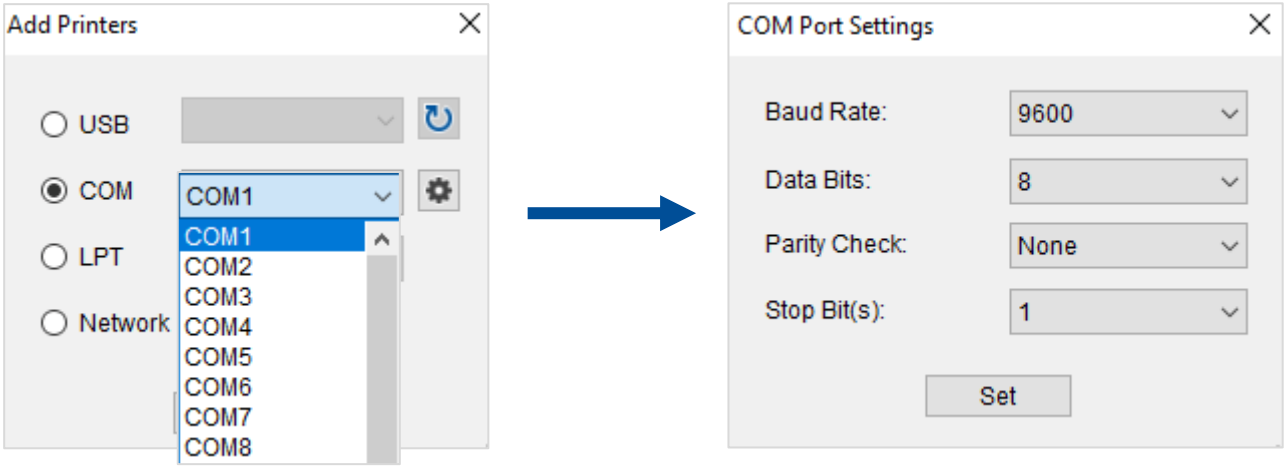
2. Select **USB** and click **OK** to find the device.



3.2 COM and LPT

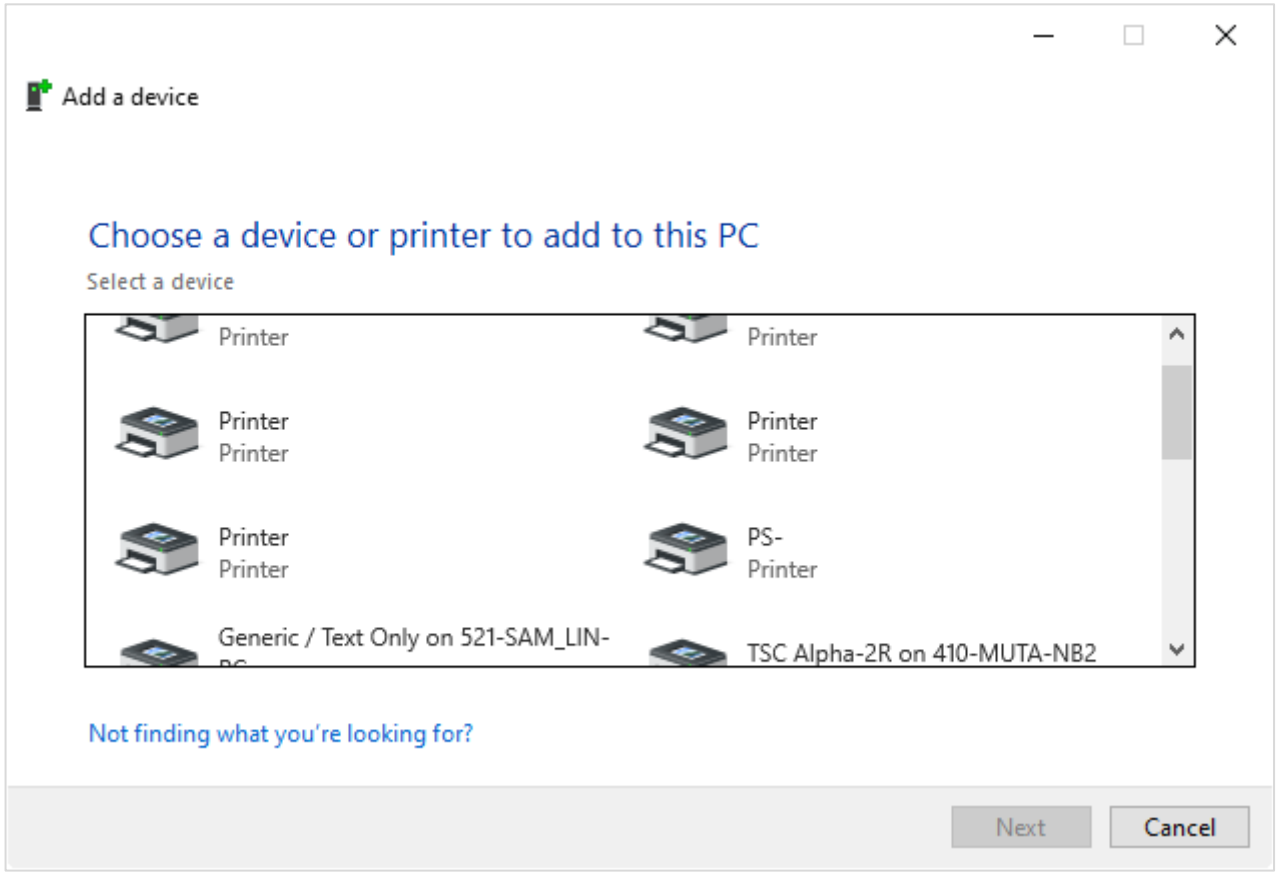
3.2.1 RS-232

1. Use **COM Port** through the computer to connect to the printer.
2. Select the corresponding **COM Port** and finish the setup.

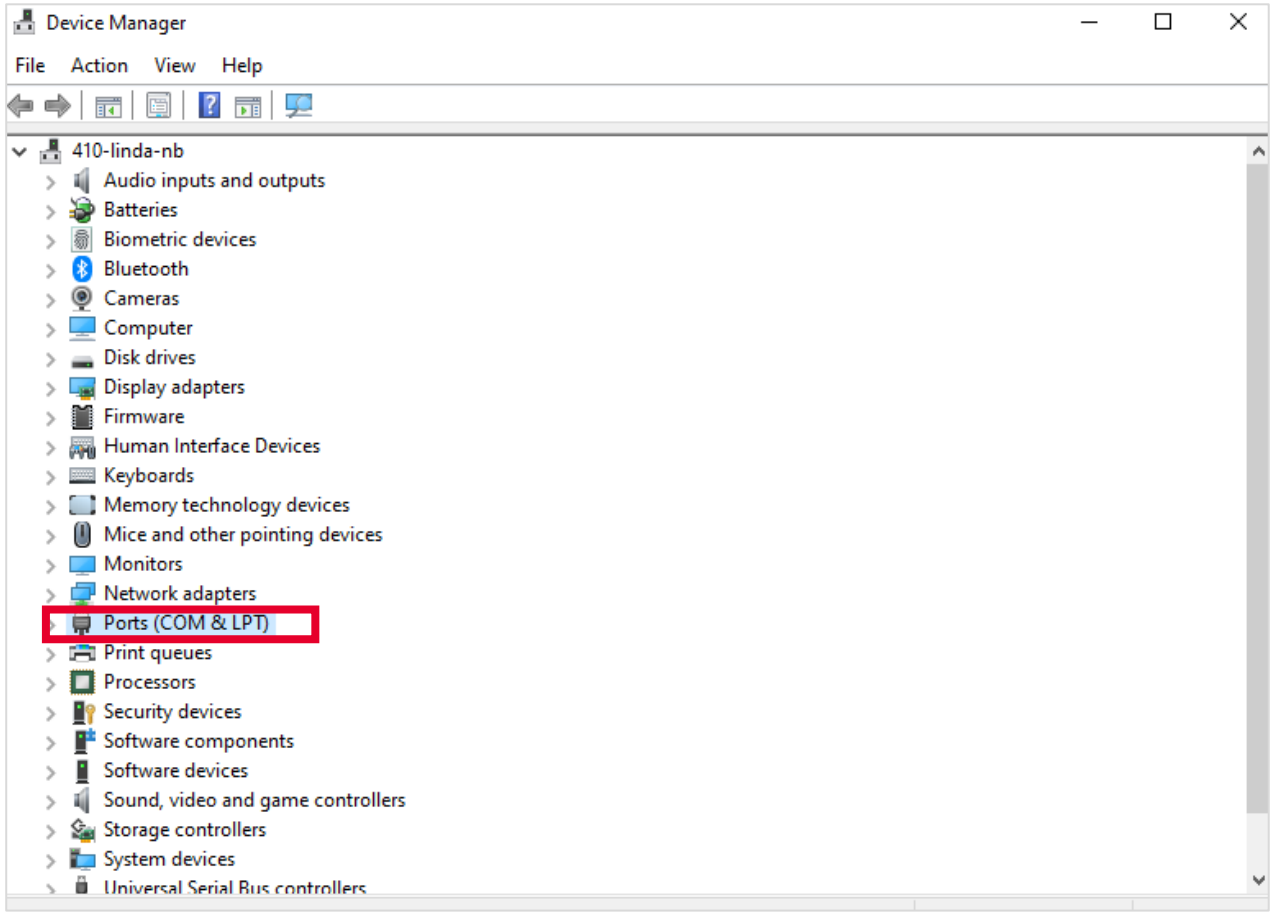


3.2.2 Bluetooth

1. [Control Panel] → [Hardware and Sound] → [Devices and Printers] → [Add Device] (Select the Bluetooth name)



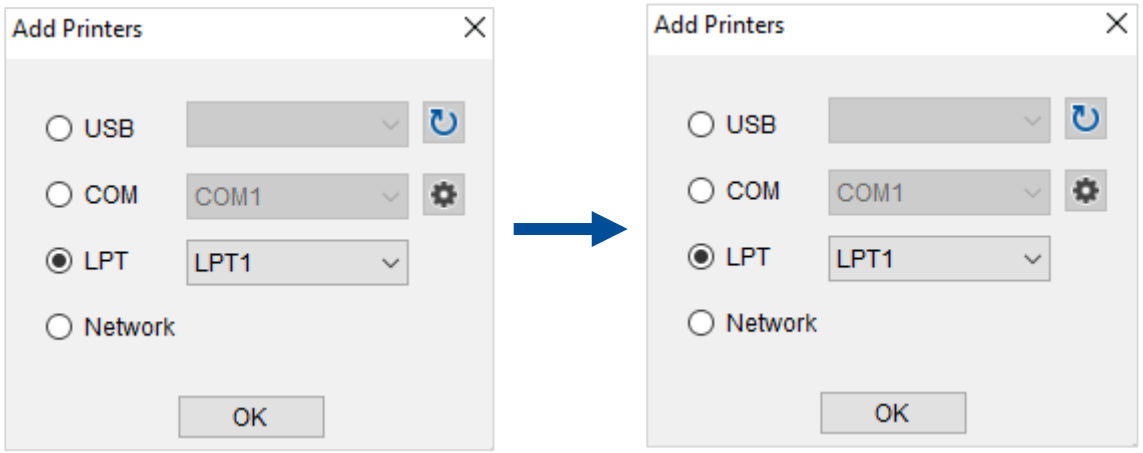
2. [Control Panel] → [Hardware and Sound] → [Devices and Printers] → [Device Manager] (Check COM Port)



3. Select the corresponding **Com Port** on **TSC Console PC**.

3.2.3 LPT

1. Select the **LPT Port** and click **OK**.



3.3 Network

3.3.1 Before Connecting to the Network

To comply with the new European RED (Radio Equipment Directive) requirements, the Network Block must be disabled before the printer's first network connection.

- **For USB setup (recommended in Europe):**
    1. Connect the printer via USB.
    2. Open **TSC Console** and go to **Functions > PRTSecure > Security Mode**.
    3. Set it to **"Standard"**.

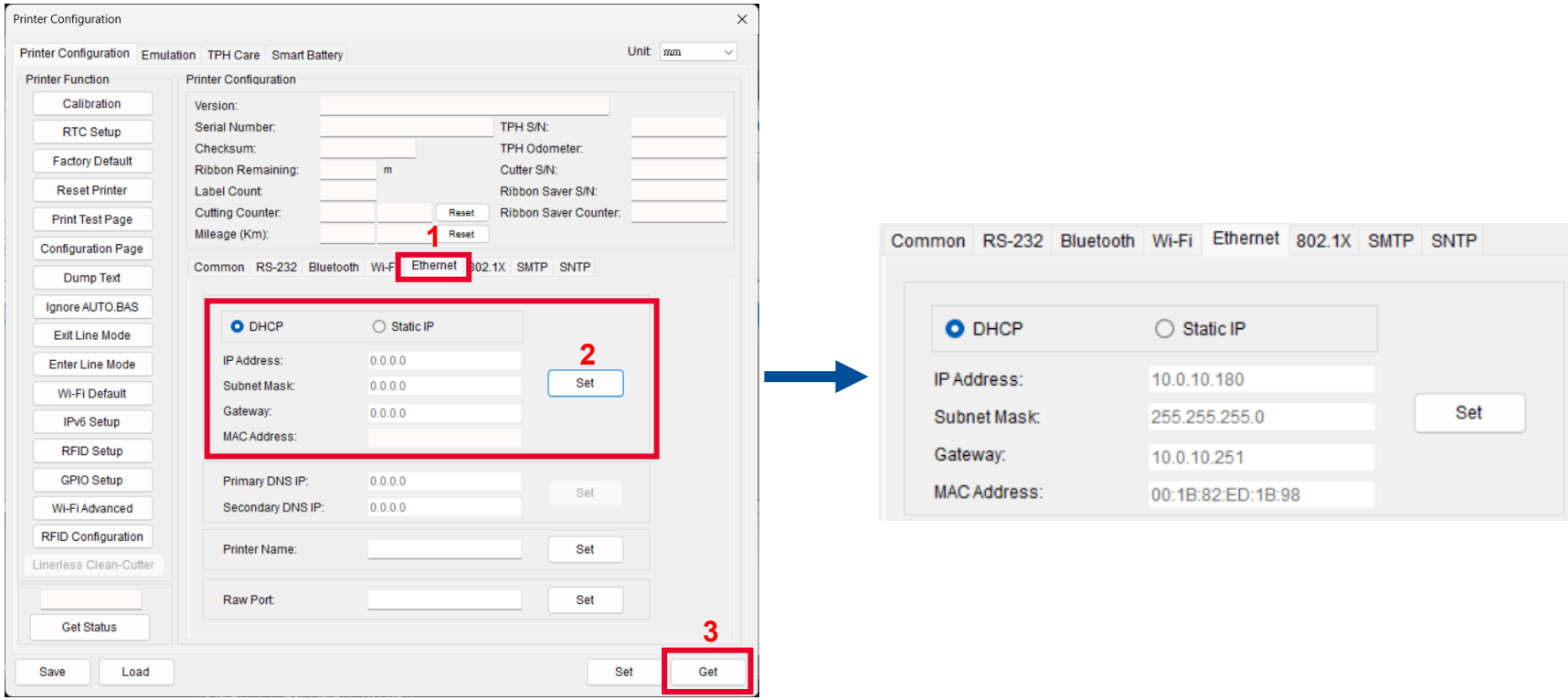
- **For printers with LCD:**
    1. Go to **Menu > Advanced > PRTSecure**.
    2. Set Security Mode to **"Standard"**.

Note:
For more information, refer to the PRTSecure section. The PRTSecure feature is supported only with TSC Console version V3.4.0.5 or later.

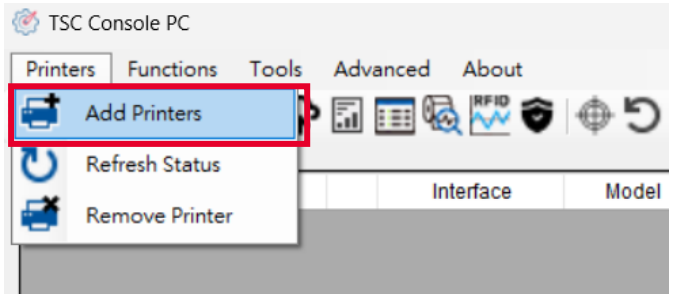
3.3.2 Set Ethernet and Add to TSC Console PC Interface

1. Use **USB** or **COM** to establish the interface on **TSC Console PC**.

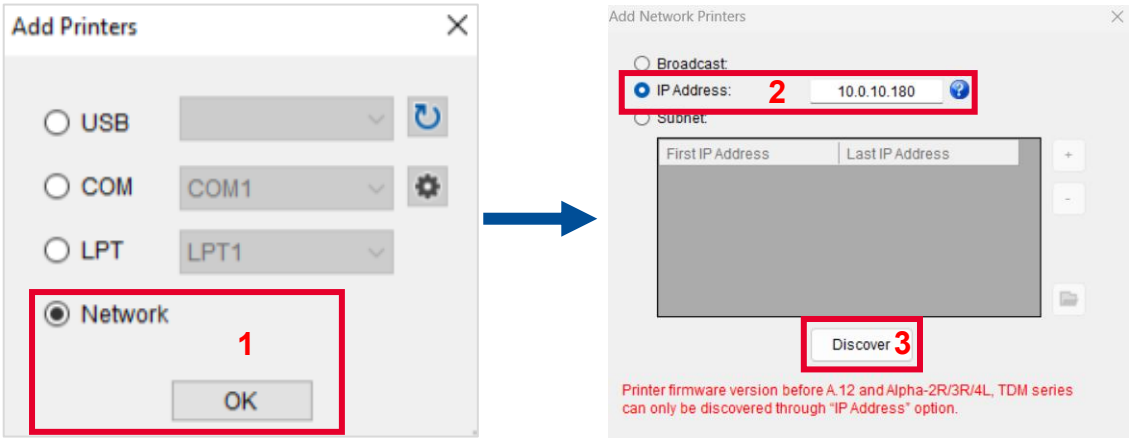
2. Double click to enter the **Printer Configuration Page** > Click **Ethernet** tab > Set the **Ethernet** > When the setting is complete, click the **Set** button on the right. (For DHCP, press the **Get** button to check the **IP Address** after setup, or check on the printer LCD control panel.)



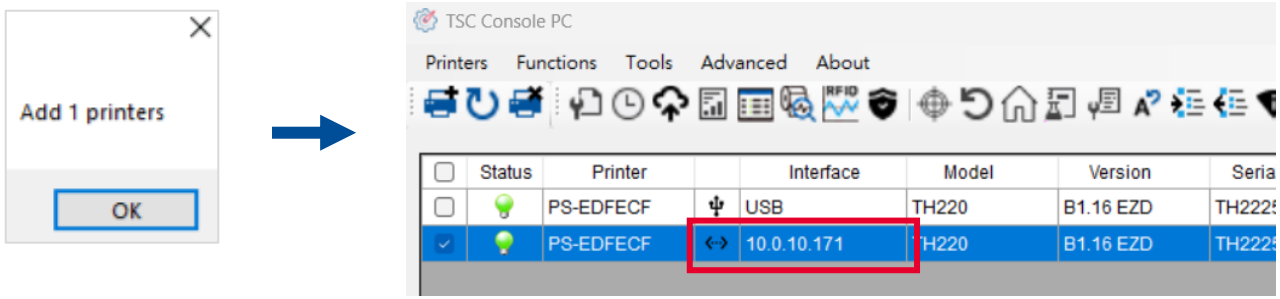
3. Return to **TSC Console** main page > Click **Add Printer** on the top left of the window.



4. Choose **Network** > Key in the **IP Address** > Click **Discover** to establish the Ethernet interface.

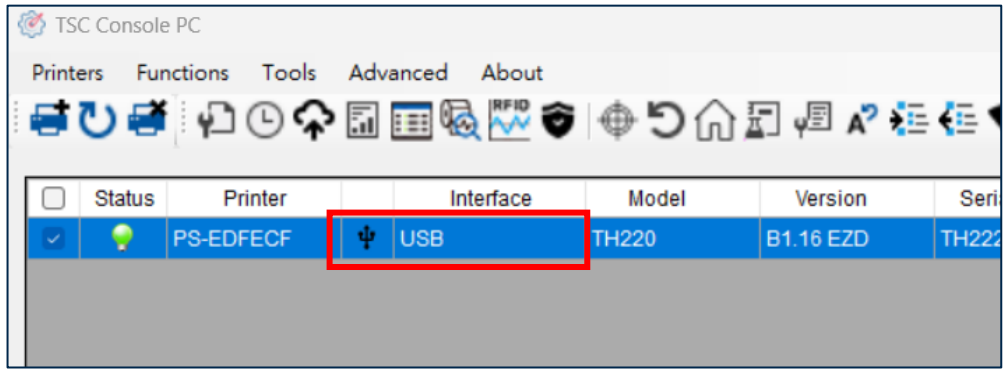


5. If the connection is successful, the Add Printer window will pop up > Click **OK** to close the window > The **TSC Console** will appear for printer that use the Ethernet interface.

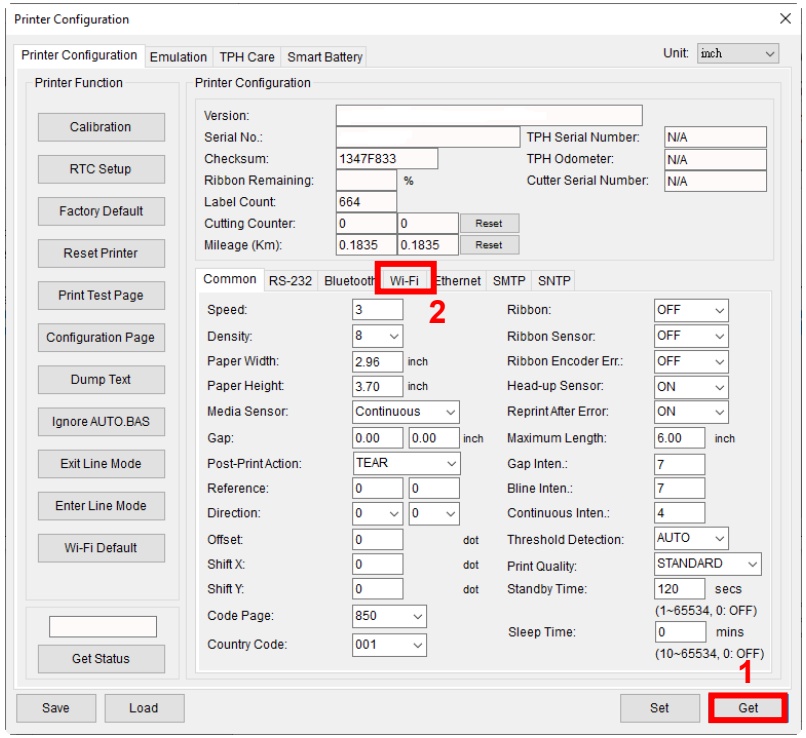


3.3.3 Set Wi-Fi and Add to TSC Console PC Interface

1. Use **USB** or **COM Port** to set up the interface.
2. Double click to enter the printer configuration page.



3. Click **Get** to receive printer's information.
4. Click **Wi-Fi** to the wi-fi setting page.



For WPA-Personal

I. Fill-in the **SSID**.

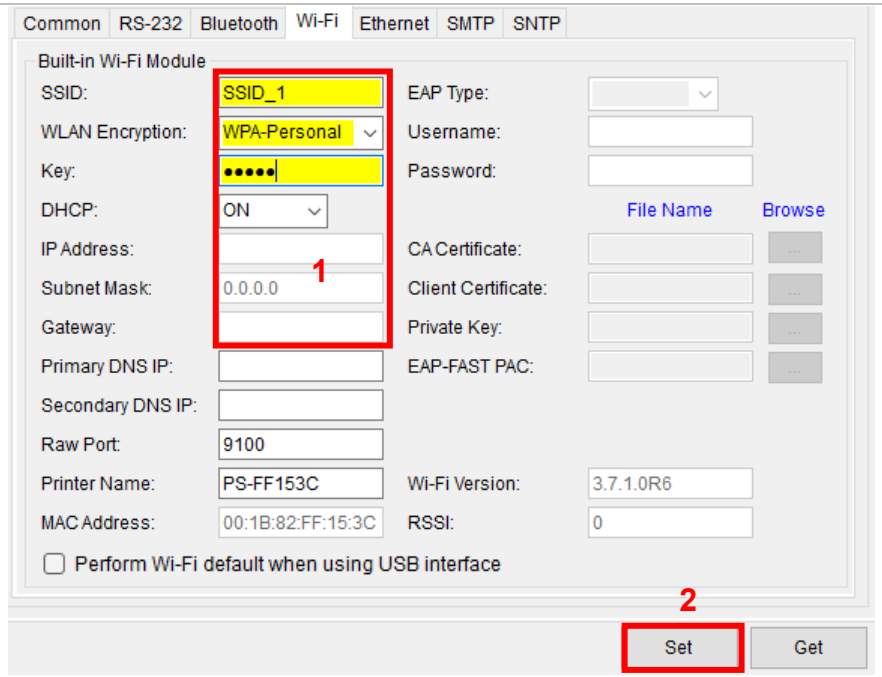
II. Select the Encryption option to **WPA-Personal.**

III. Fill-in the Key.

IV. Select **DHCP** to **ON**. (For **OFF** option, please fill-in the IP Address, Subnet Mask and Gateway)

V. After setting, click the **Set** button.

Note:
Before setting, the entered field will be shown in yellow for reminding.
On DHCP, user can change the printer name by another model name in "Printer Name" field.
User also can change the raw port in "Raw Port" field.



For WPA-Enterprise

I. Fill-in the **SSID**.

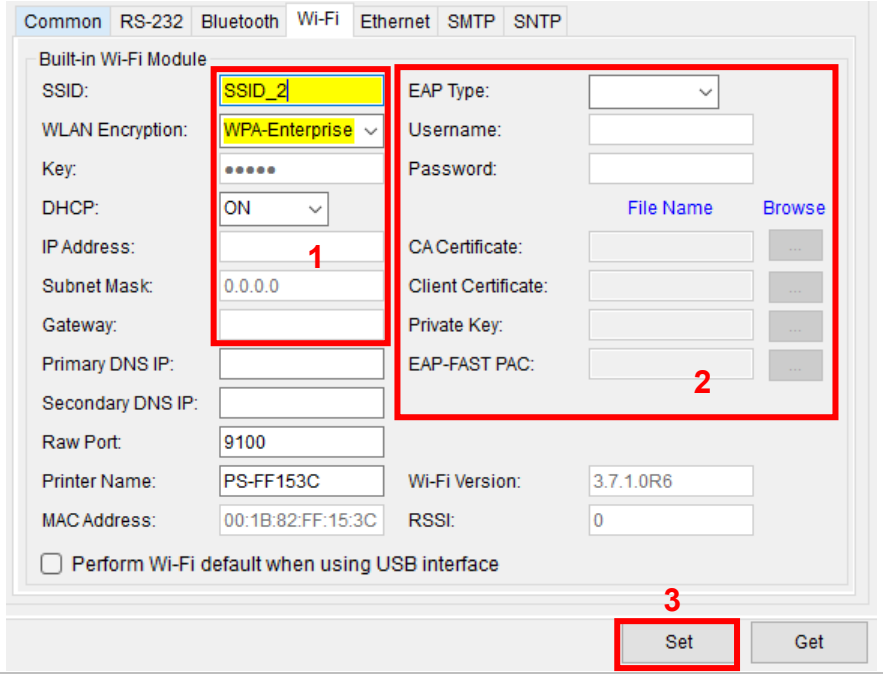
II. Select the Encryption option to **WPA-Enterprise**.

III. Select DHCP to **ON** (For **OFF** option, please fill-in the IP Address, Subnet Mask and Gateway)

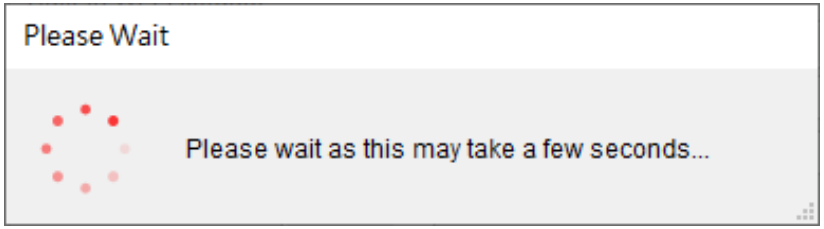
IV. Select the **EAP Type** option. (For **EAP-TLS** option, please upload the CA and Key for mutual authentication, integrity-protected cipher suite negotiation, and key exchange between two endpoints.)

V. After setting, click the **Set** button.

Note:
Before setting, the entered field will be shown in yellow for reminding.
On DHCP, user can change the printer name by another model name in "Printer Name" field.
User also can change the raw port in "Raw Port" field.



5. After clicking **Set** button, it'll pop-up the window tip as below shown.

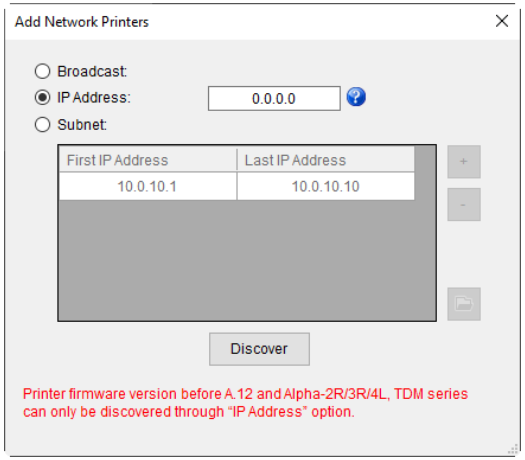


6. IP address will be shown in the “IP address” field and the Wi-Fi logo and IP address will be displayed on the LCD control panel.

Note:

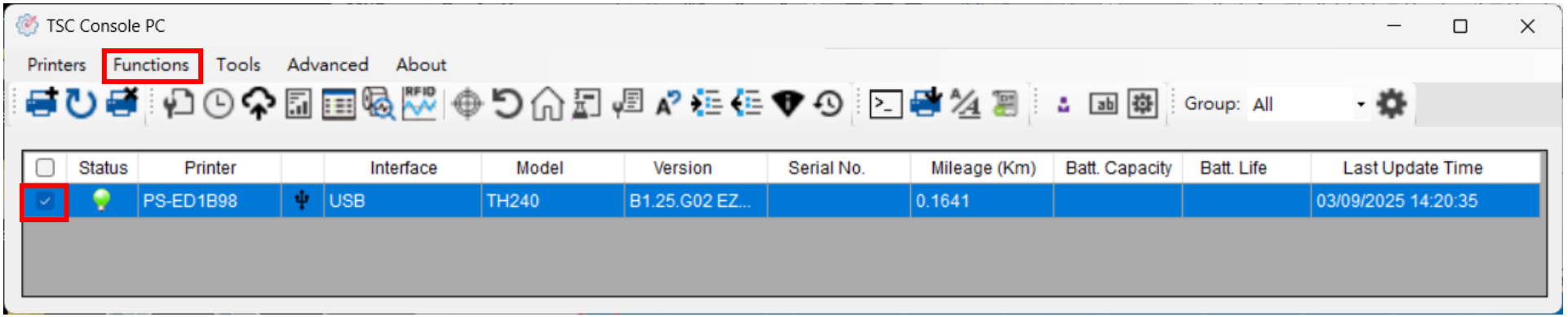
IP address should be shown within about 5 to 15 seconds after printer turn on. If not, please refer to steps below to initialize the printer Wi-Fi module settings then to setup it again.

7. Remove the cable between the computer and the printer.
8. Go to main page, click **Add Printer** to add the printer via **Network**.
9. Select the printer and enter the setting page by double clicking the printer.
10. Click the **Print Test Page** button to print the test page via Wi-Fi interface.

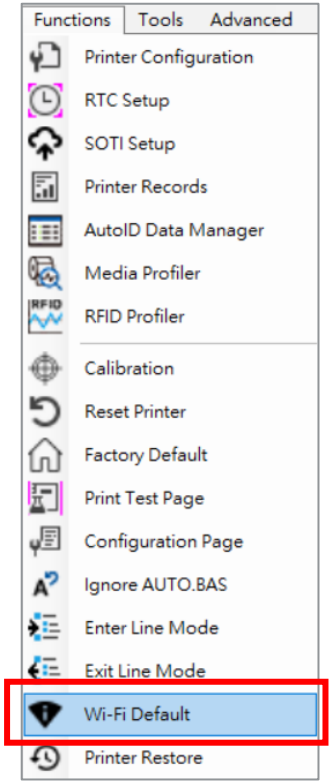


3.3.4 Initialize the Printer Wi-Fi Setting

1. Return to the main page of TSC Console. Select the printer and click **Functions** to expand the page.

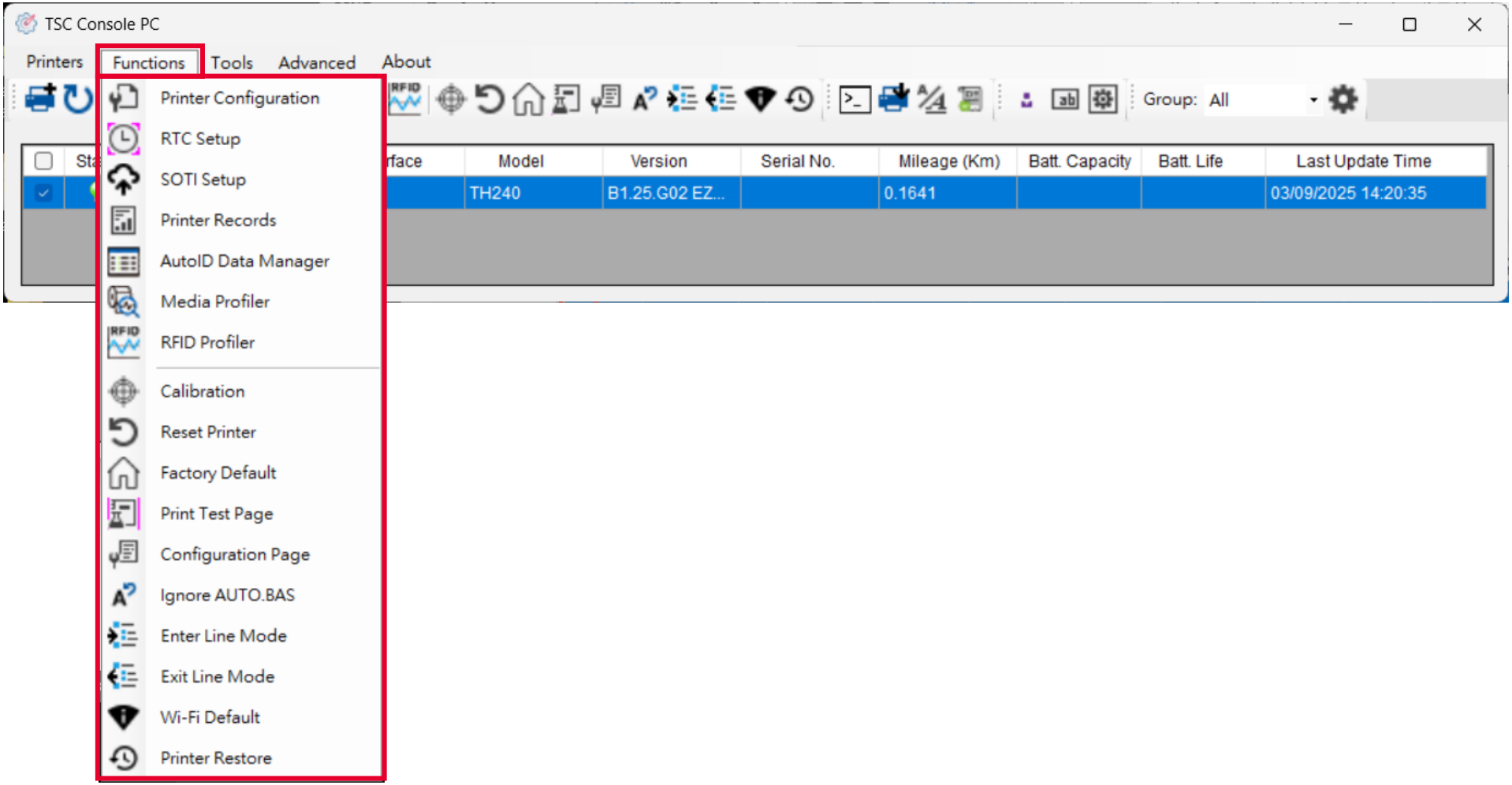


2. Click **Wi-Fi Default** to initialize the printer Wi-Fi module setting to factory default setting.



4. Function

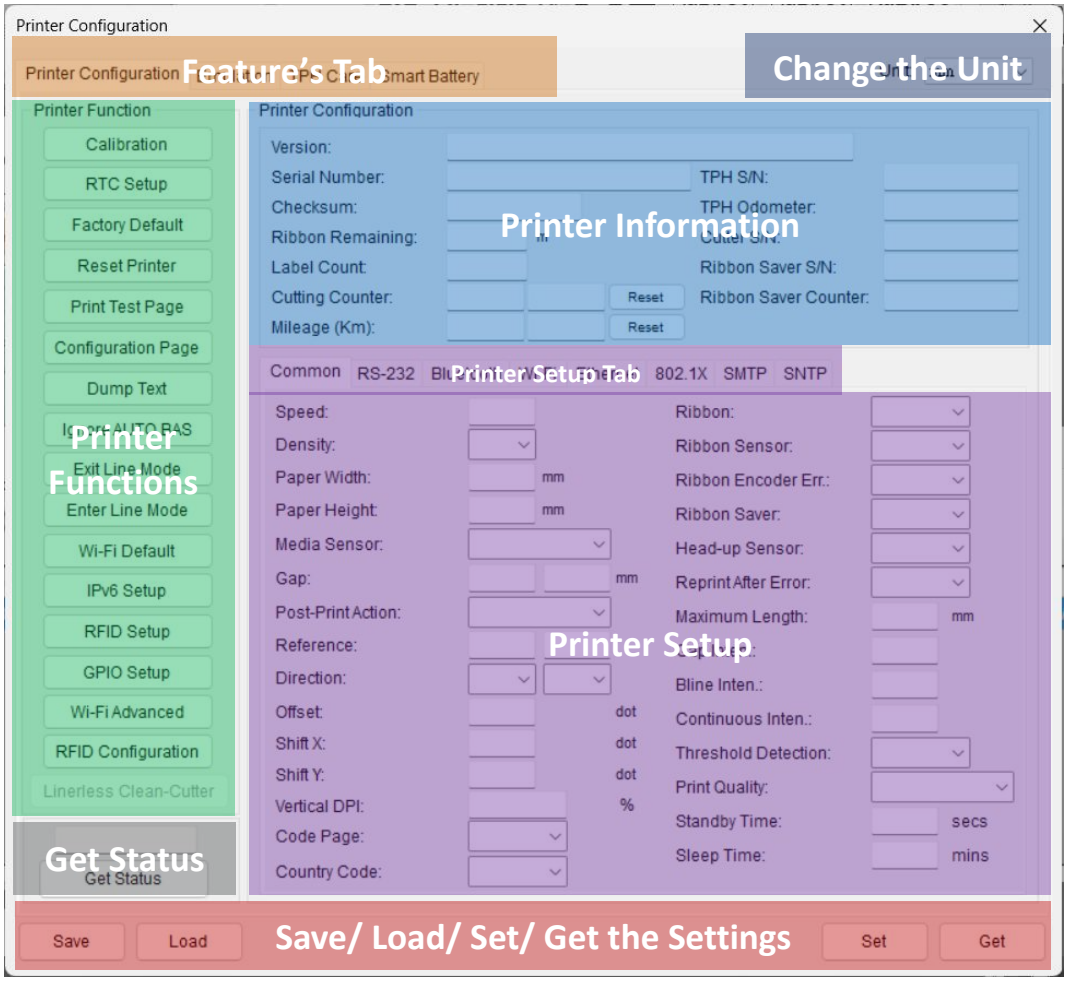
Functions shows the settings and functions for the printer, users can access to the page by following below picture's instruction or **double clicking** the established printer in **TSC Console PC**.



4.1 Printer Configuration

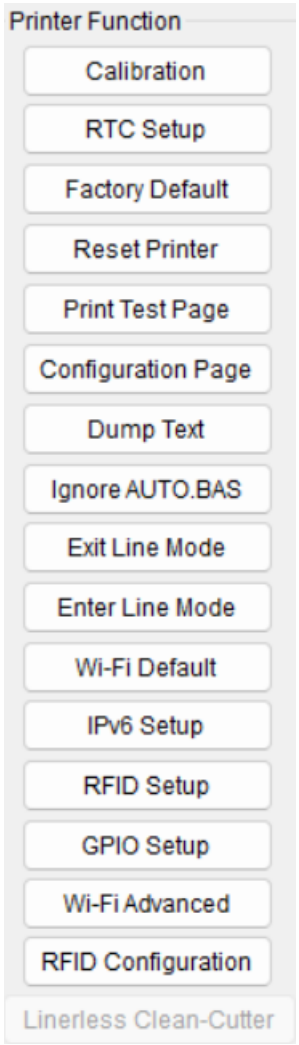
Printer Configuration contains most functions and setting to the printer, click **Function** on **TSC Console** main page, then click **Printer Configuration** to enter the page.

4.1.1 Printer Configuration Overview



4.1.2 Printer Functions

Printer Function could be found in **Printer Configuration**. "**Printer Function**" will be shown on the left side of the window.

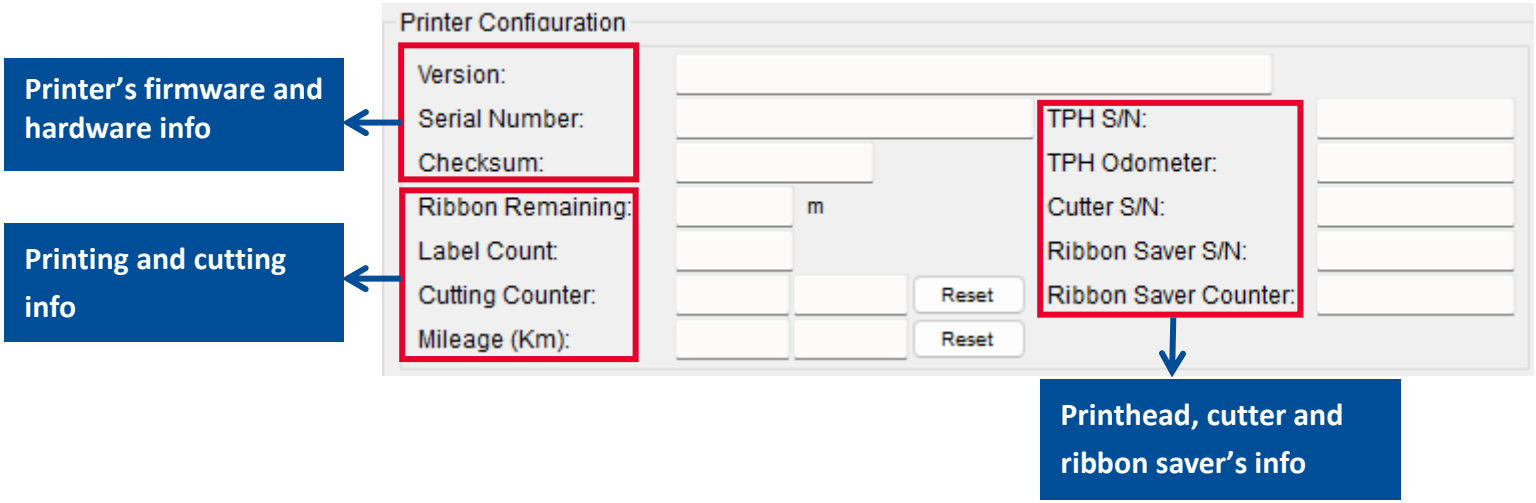


Functions	Description
Calibrate	Detect media types and the size of the label
RTC Setup	Synchronize printer with Real Time Clock on PC
Factory Default	Initialize the printer to default settings
Reset Printer	Reboot printer
Print Test Page	Print test page according to the specified label size and sensor type.
Configuration Page	Print printer configurations
Dump Text	Activate the printer to dump mode
Ignore AUTO.BAS	Ignore AUTO.BAS file when printer boot up
Exit Line Mode	Exit the line mode to page mode
Enter Line Mode	Leave page mode and enter line mode
Wi-Fi Default	Restore the Wi-Fi settings to defaults.
IPv6 Setup	Enter the IPv6 settings window to configure the settings
RFID Setup	Enter the RFID settings window to configure the settings
GPIO Setup	Enter the GPIO settings window to configure the settings
Wi-Fi Advanced	Enter the Wi-Fi module's Advanced Settings window to configure the settings
RFID Configuration	Enter the RFID configuration window to configure the settings
Linerless Clean-Cutter	Enter the Linerless Clean-Cutter window to set the linerless cutter for cleaning

Note: Please refer to TSC RFID Manual for more information. Alternatively, you can scan the QR code below to have access to the TSC RFID Manual.

4.1.3 Printer Information

Printer Information area allows users to check up printer's information.

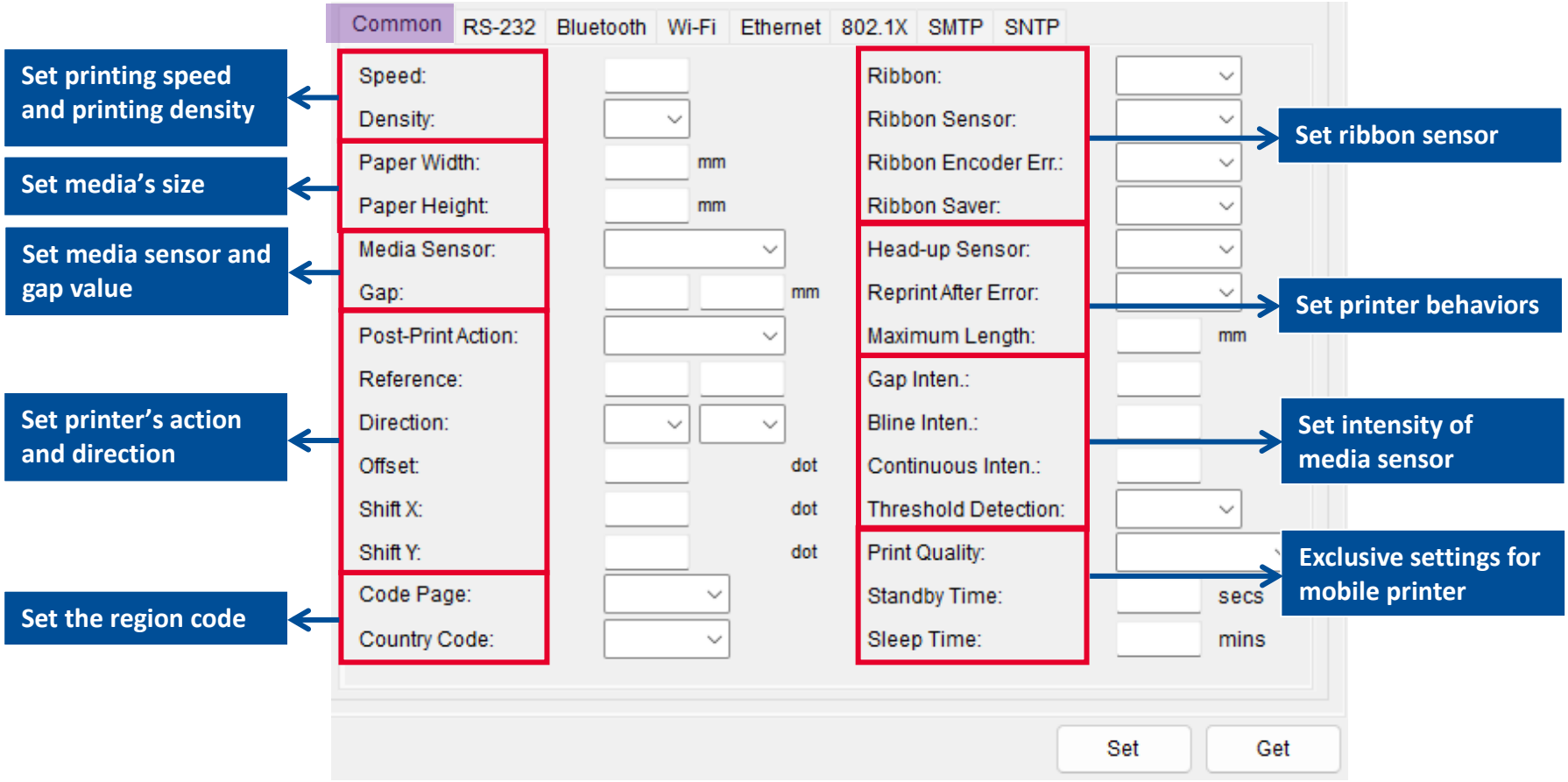


Note:

The information sent back by the printer here will vary depending on the model, the data will be sent back only if this function is available.

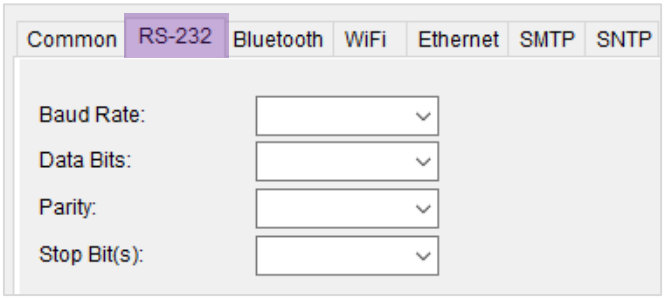
4.1.4 Printer Setup - Common

Printer Information area allows users to check/ set the printer's settings.



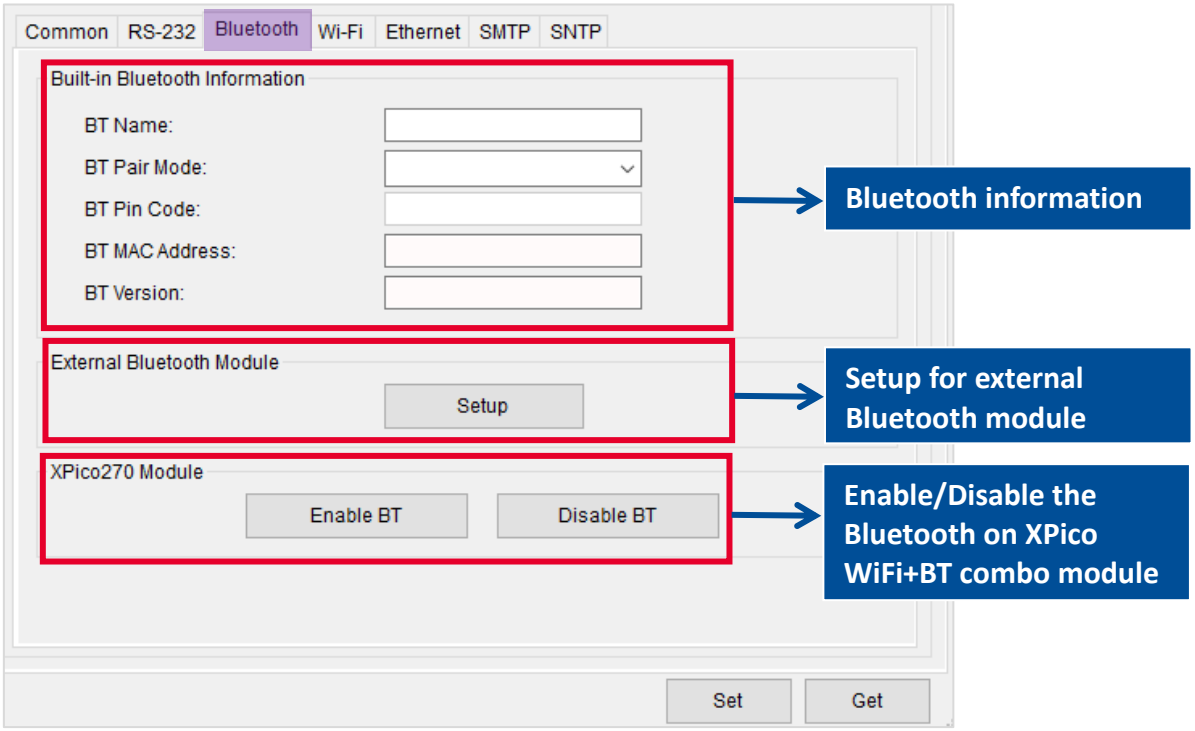
4.1.5 Printer Setup - RS-232

RS-232 area provides the settings to set up the RS-232 interface.



4.1.6 Printer Setup - Bluetooth

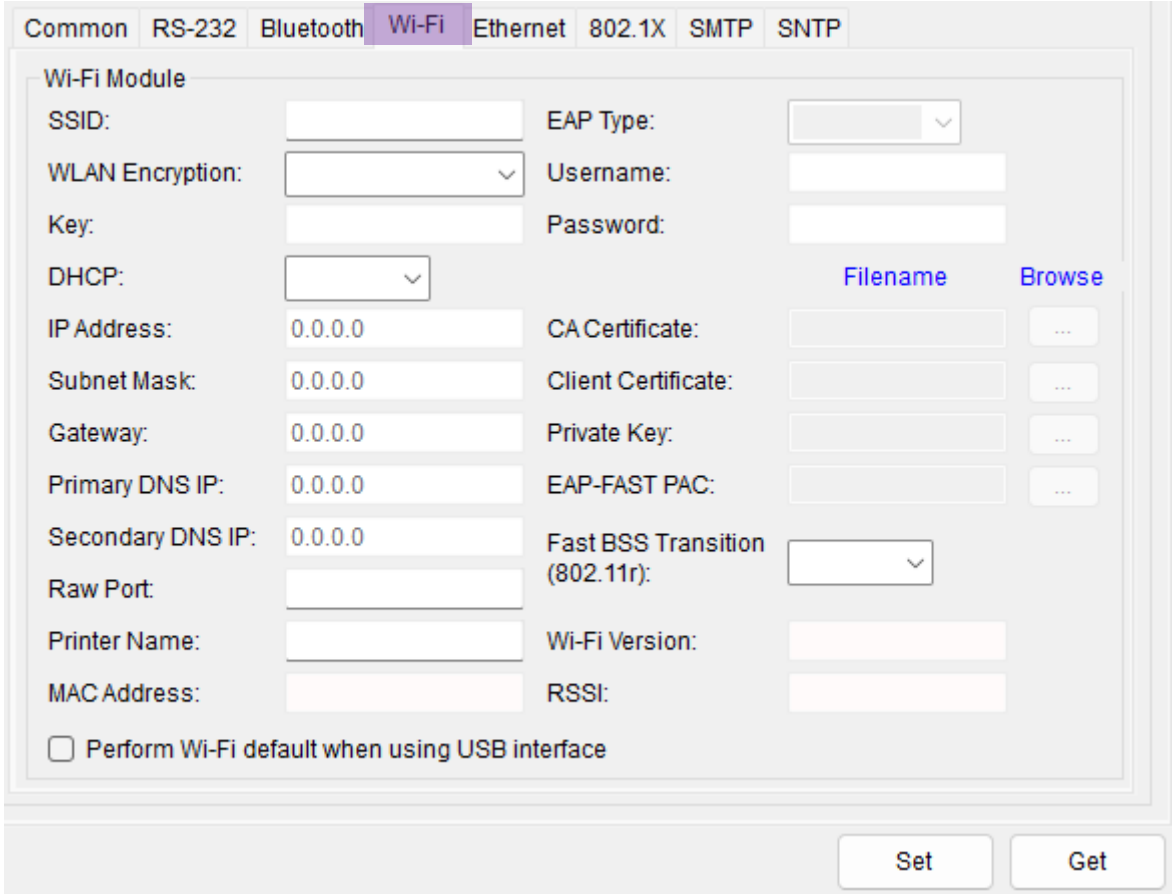
Bluetooth area provides users to check and set printers' Bluetooth settings.



4.1.7 Printer Setup - Wi-Fi

Wi-Fi area is used to check & set printers' Wi-Fi settings.

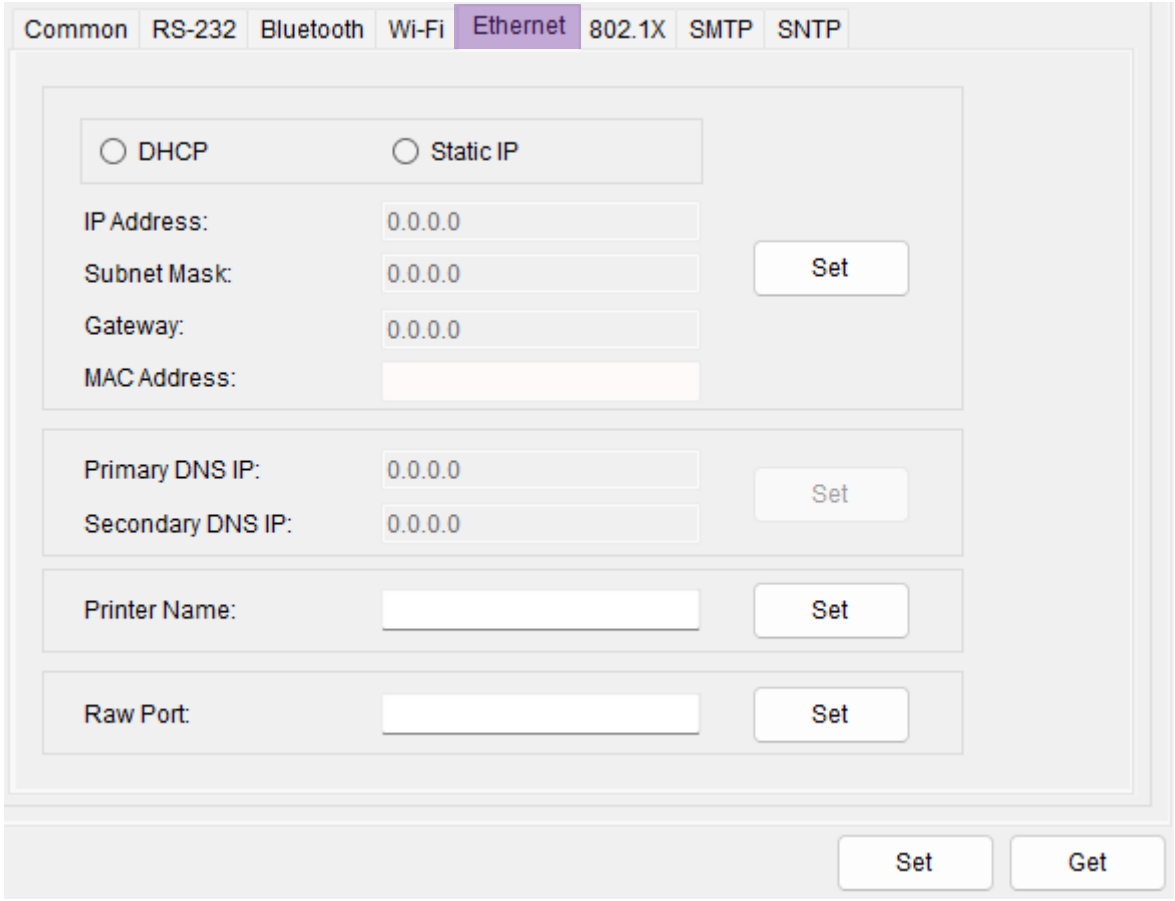
For setting up the Wi-Fi, please refer to **Set Wi-Fi and Add to TSC Console PC Interface**.



4.1.8 Printer Setup - Ethernet

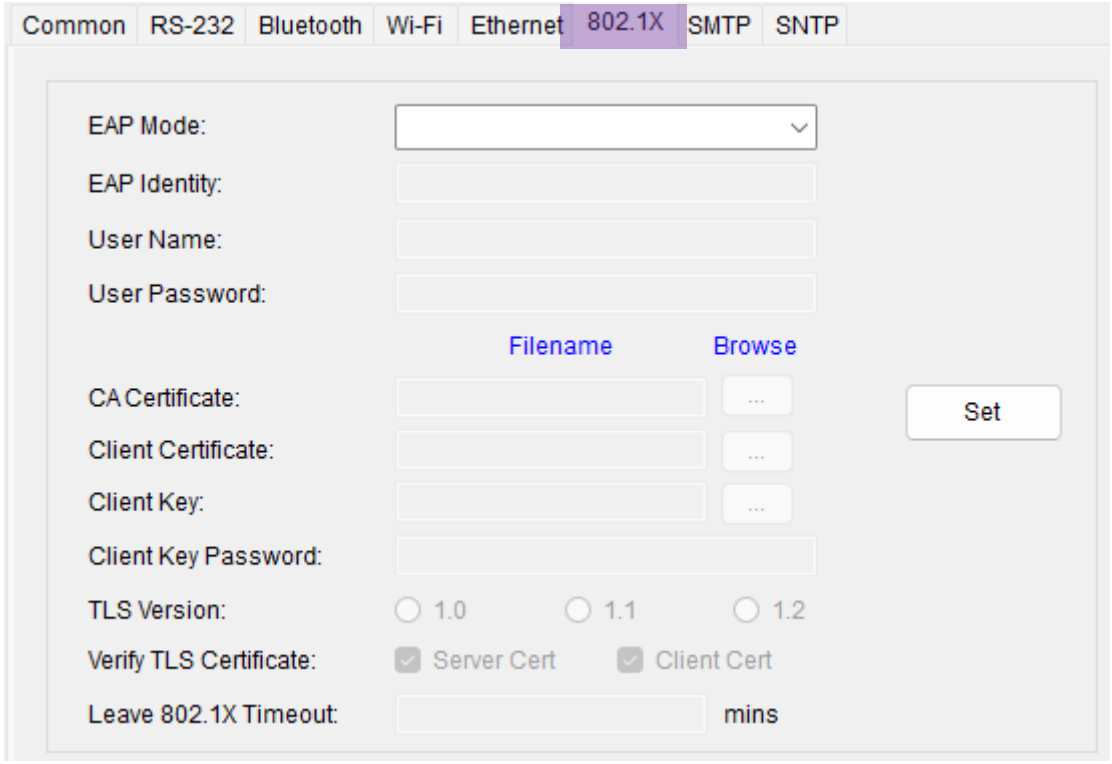
Ethernet area is used to check & set printers' Ethernet settings.

For setting up the Ethernet, please refer to **Set Ethernet and Add to TSC Console PC Interface**.



4.1.9 Printer Setup – 802.1X (for Ethernet)

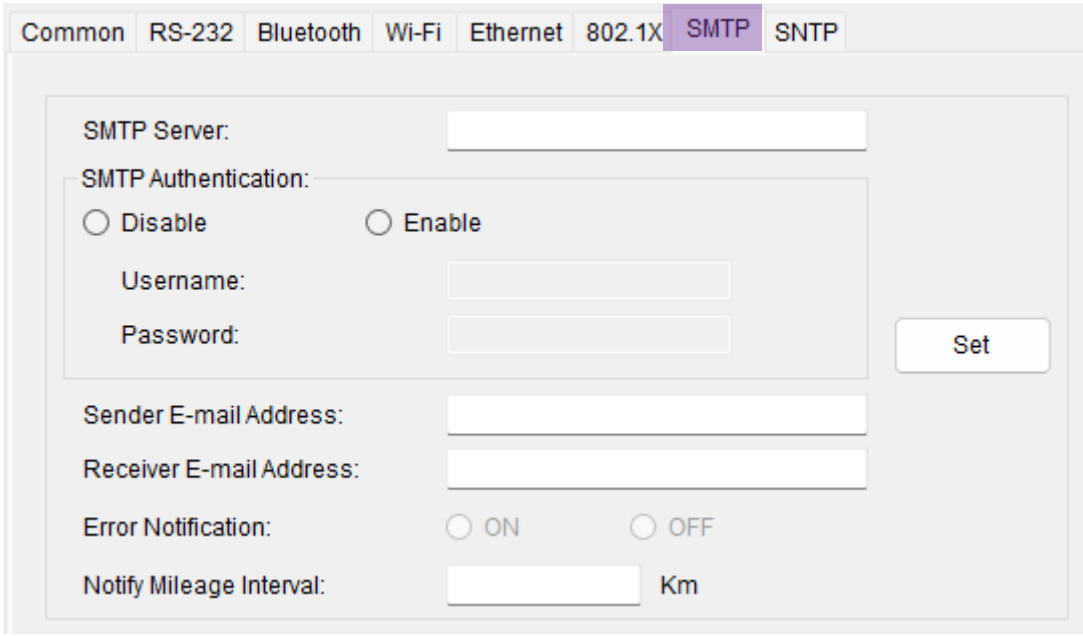
802.1X area is used to set printers' Ethernet 802.1X settings.



4.1.10 Printer Setup - SMTP (Simple Mail Transfer Protocol)

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

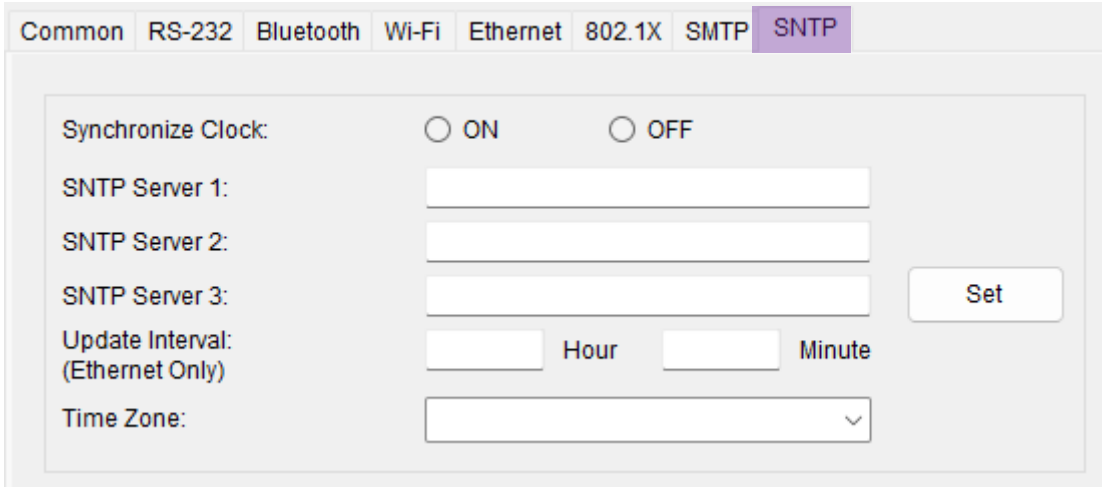
Note: Only support firmware A2.13 or above version (Ethernet / Wi-Fi).



4.1.11 Printer Setup - SNTP (Simple Network Time Protocol)

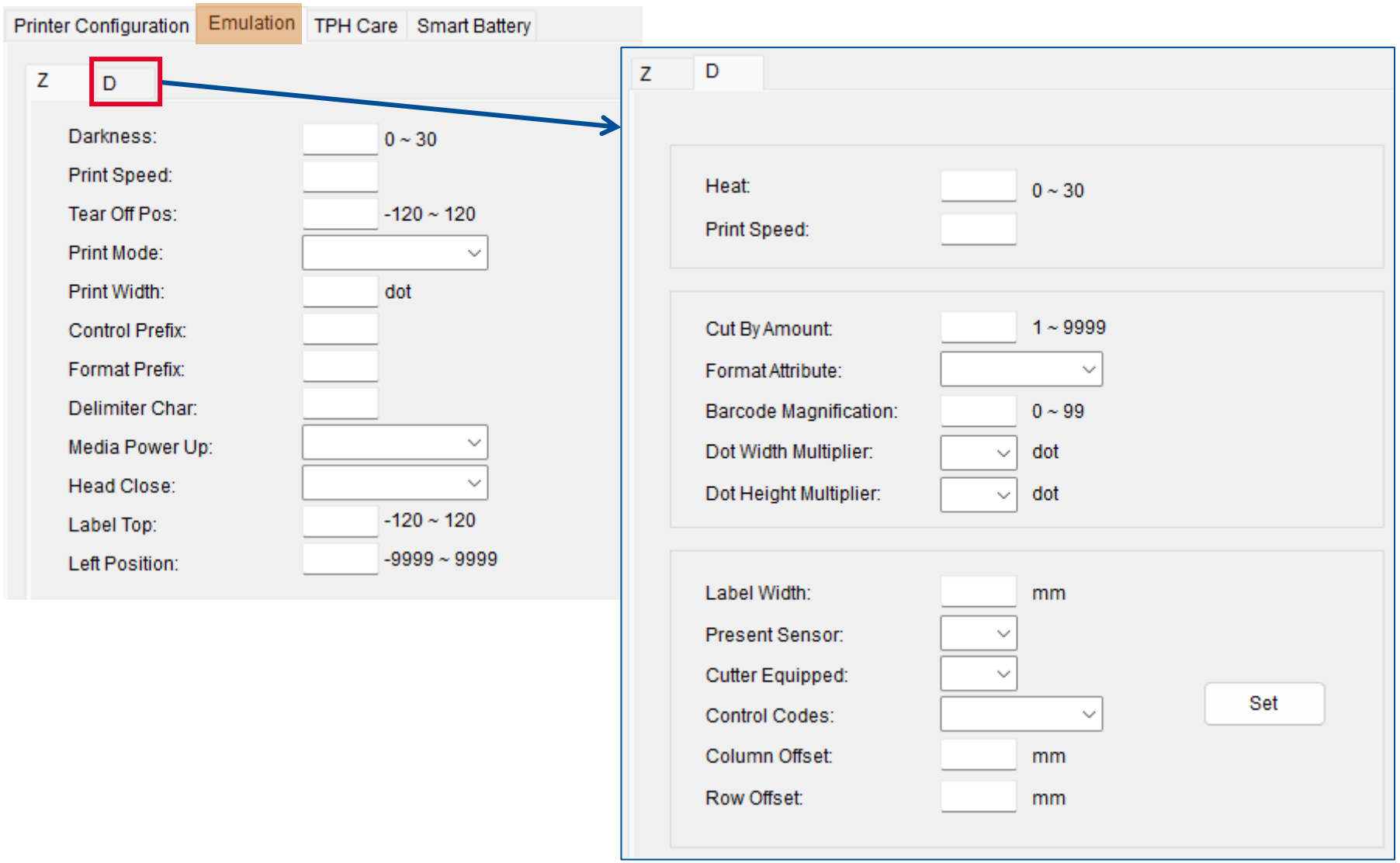
SNTP allows user sync printer system clock with ethernet timing.

Note: Only support firmware A2.13 or above version (Ethernet / Wi-Fi).



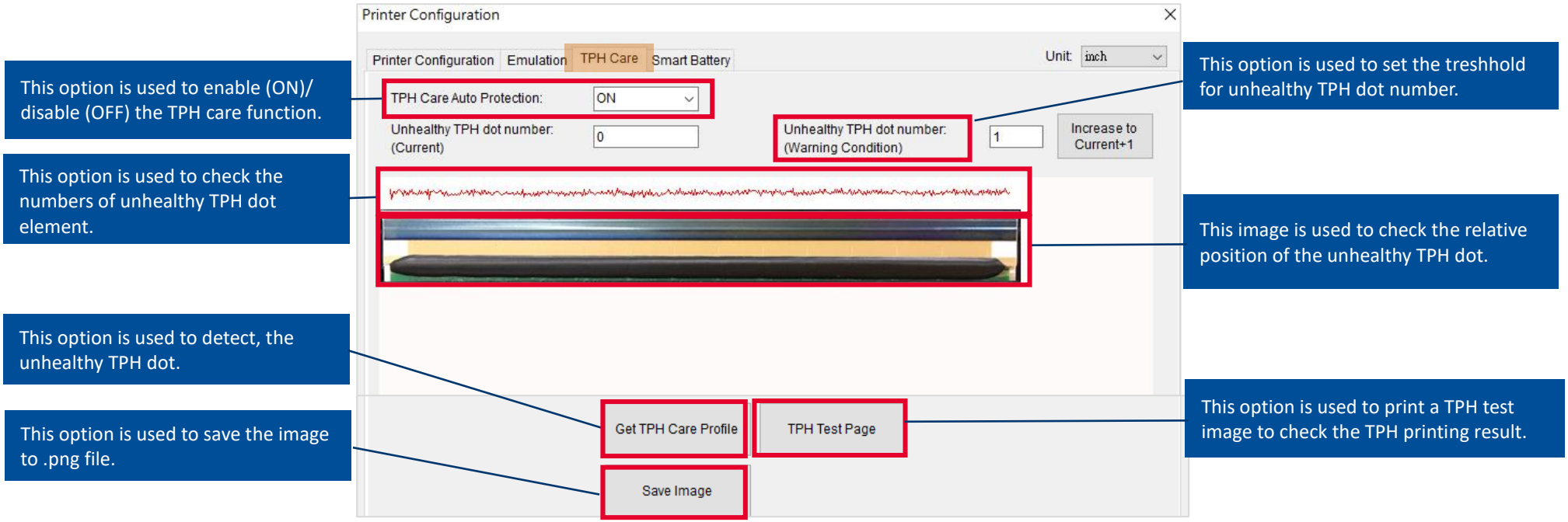
4.1.12 Features Tab - Emulation

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



4.1.13 Features Tab – TPH Care

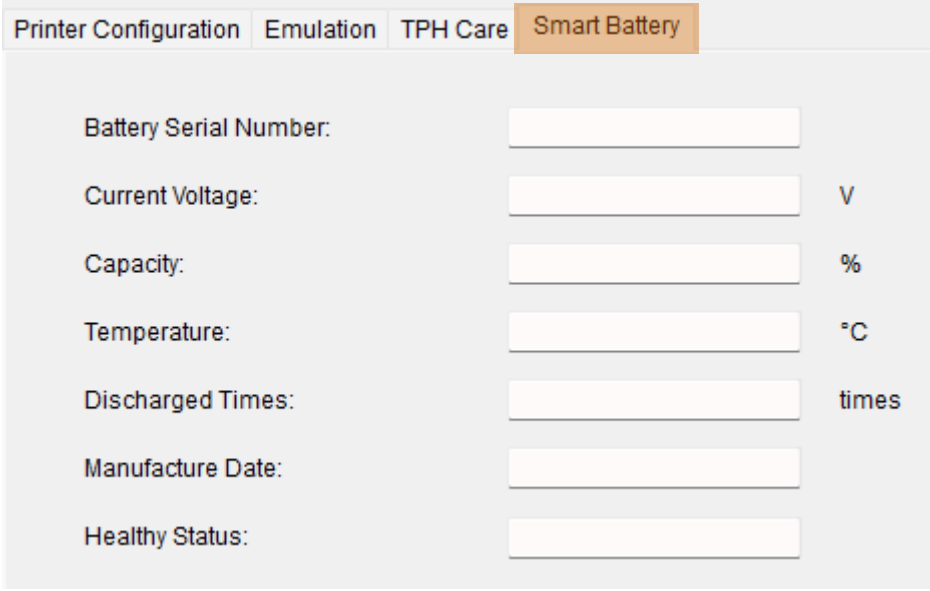
TPH Care provides users to check the condition of the print head and be able to set the dot failure threshold for indicating errors when the threshold is triggered.



1. Enable the TPH Care function. (Note: The default is disabled/OFF.) Then click "Get TPH care profile" button and a diagram will show in the area above.
2. If the profile is flat, it means that the print head is good. Check "Unhealthy TPH dot number". If the result is zero (0), that means the print head is good.
3. Bad dots are presented as a spike in the profile. The arrow in below profile indicates the presence of potentially damaged dots and printer will stop printing.

4.1.14 Features Tab – Smart Battery

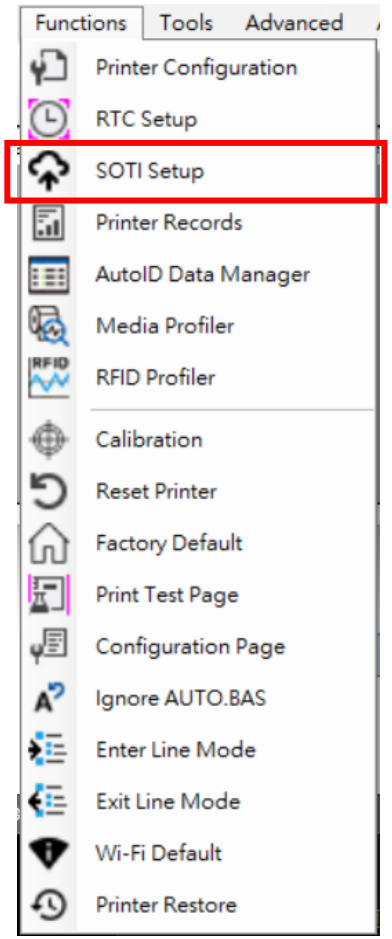
Smart Battery shows the battery information of the printer **(Mobile Printers only.)**

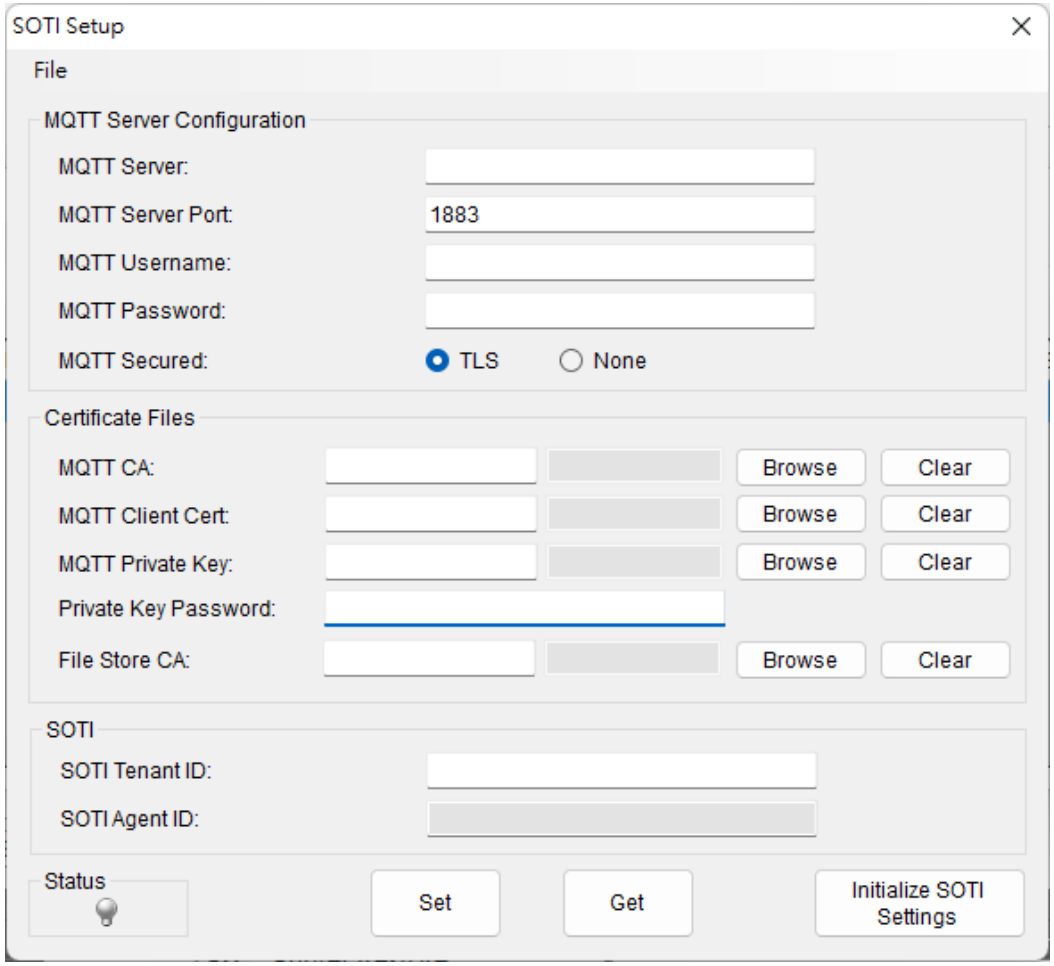


4.2 SOTI Setup

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

Note: Once the printer is connected to the SOTI, the bulb of the status would turn into green color.

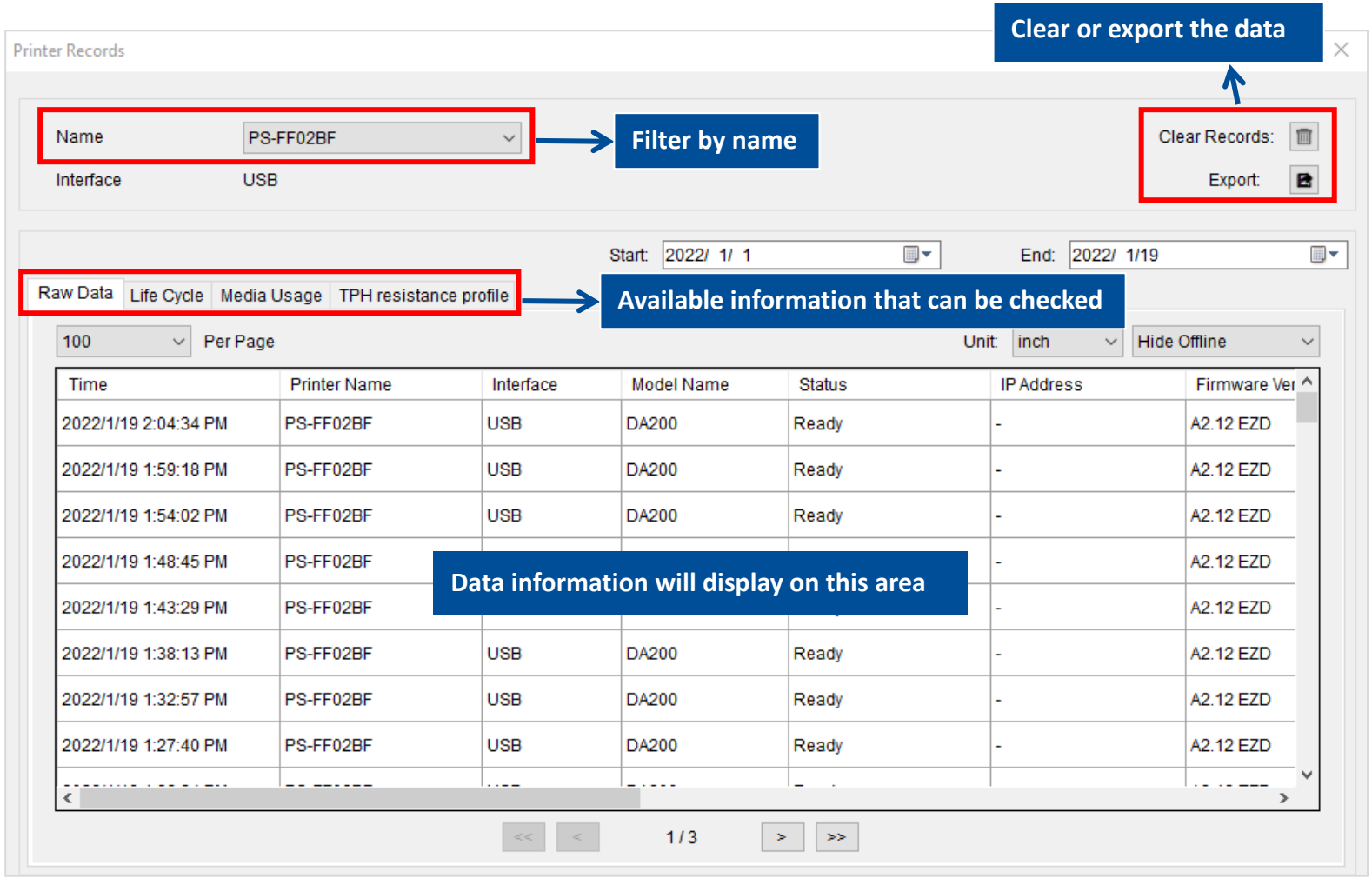




4.3 Printer Records

Printer Records could check out the printer information, including raw data, life cycle, media usage, and TPH resistance profile. Follow below instruction to open the **Printer Records**:

Go to TSC Console main page > select the printers > click **Printer Records** in the Tool menu or right click on printer to find the option to enter in the **Printer Records** page.

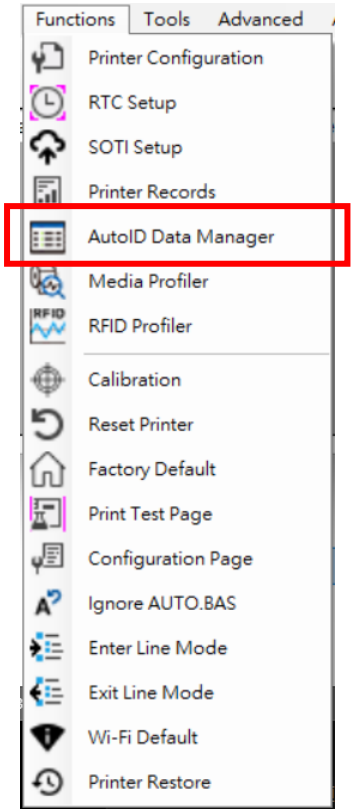


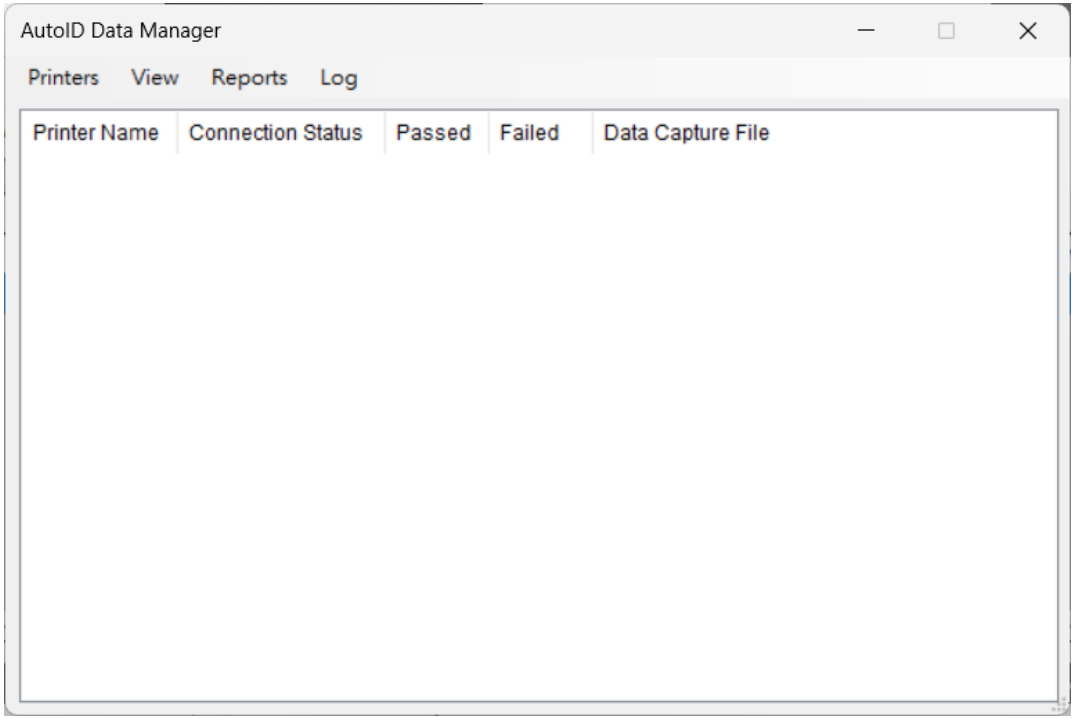
4.4 AutoID Data Manager

The **AutoID Data Manager** is an application that can collect EPC (electronic product code) telemetry data (stored on Radio Frequency Identification [RFID] tags) from RFID enabled printers.

With this telemetry data (EPC), you can create compelling audits of label and RFID tag quality. (support csv/txt file formats)

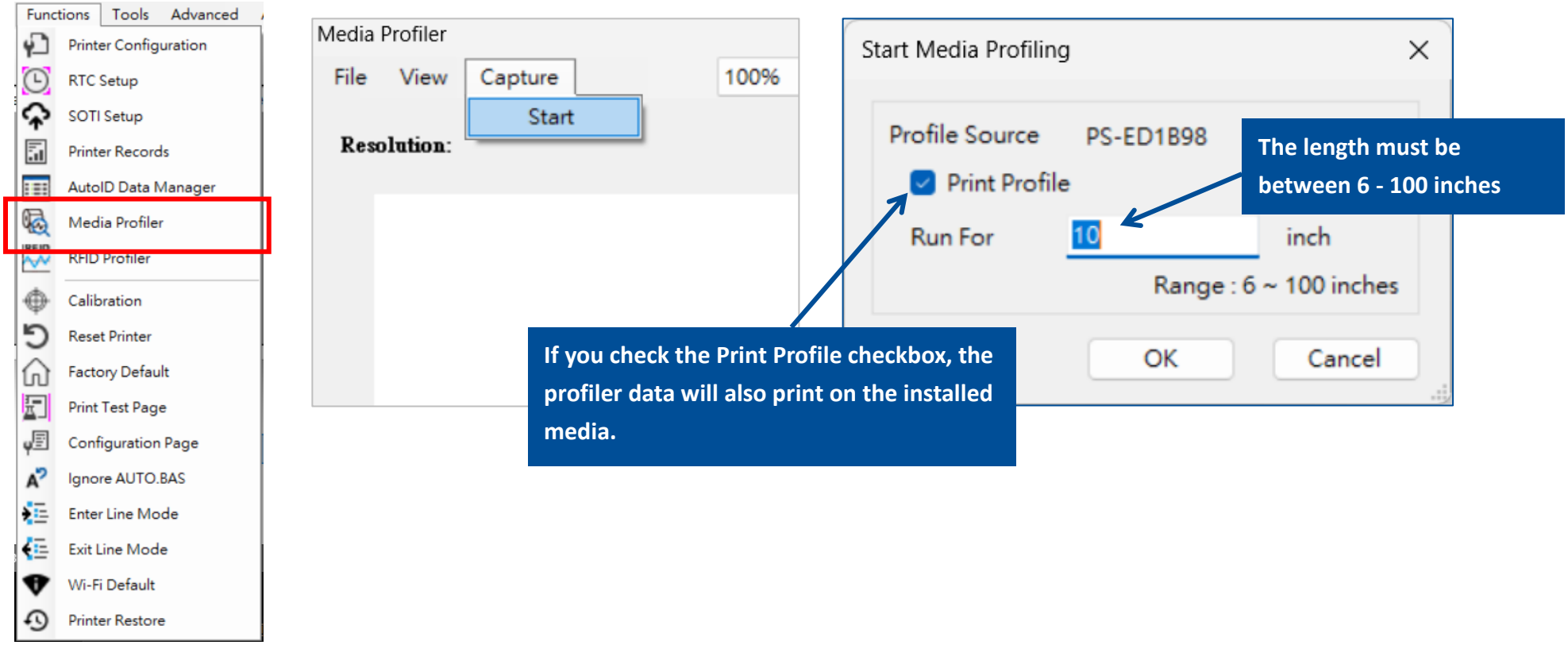
Please refer to TSC RFID Manual for more information. Alternatively, you can scan the QR code below to have access to the TSC RFID Manual.



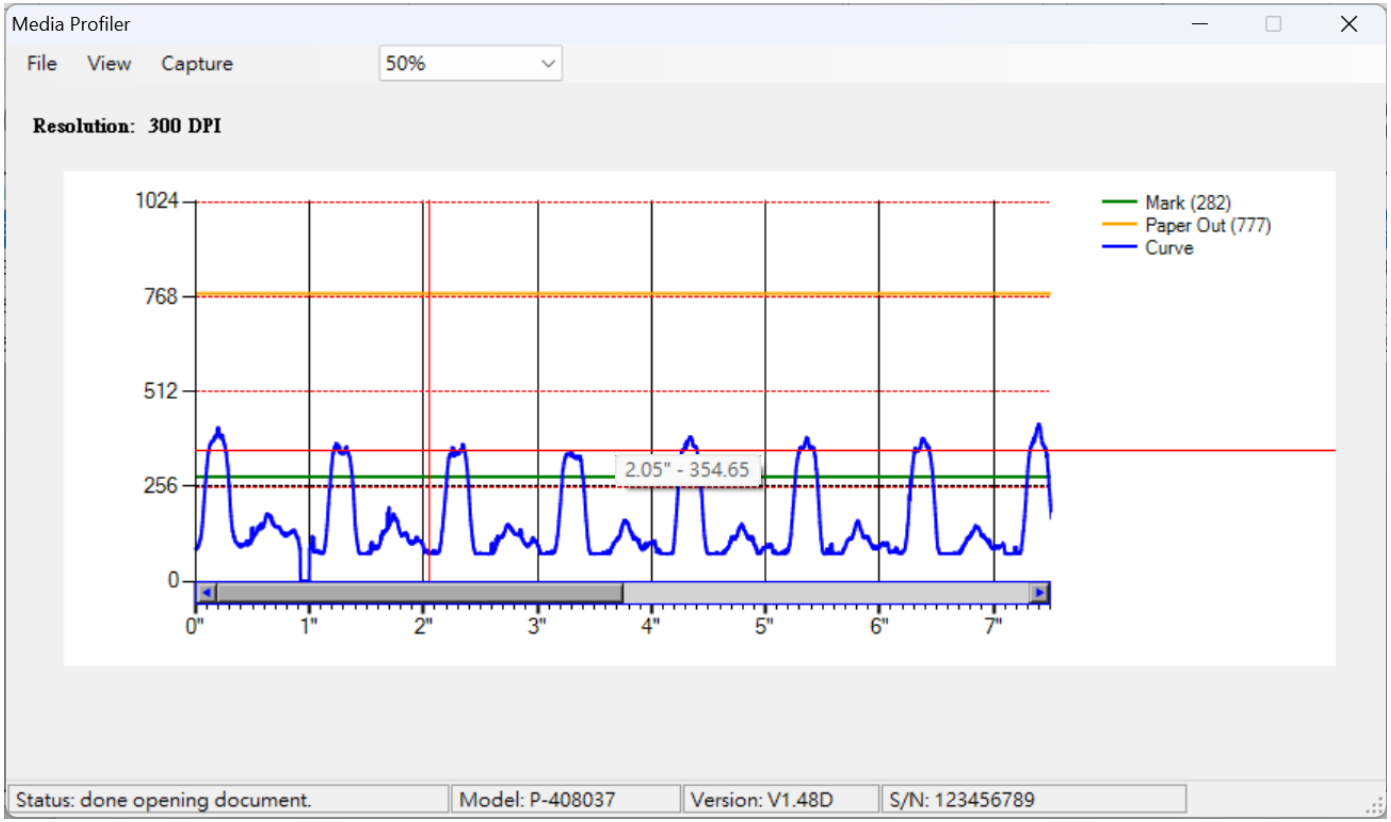


4.5 Media Profiler

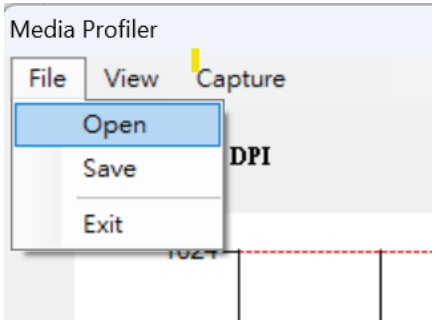
This **Media Profiler** provides a means to analyze media sensing problems. You can use it on labels that are difficult to profile using the standard printer profiling method. If necessary, you can capture, document, and send this information to professional service centers for further analysis.
The Media Profiler application is only available for thermal printers.
Follow below instruction:
Go to TSC Console PC main page > select the printer > click **Media Profiler** in the Functions menu > **Capture** > **Start** > Set the "how long the profiler test will run" in **Run For** > OK.

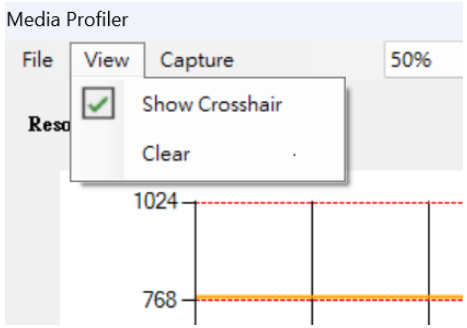


Media Profiler View:



In addition, data save/load functions and the Show Crosshair function are provided, which can display coordinate values (enabled by default).

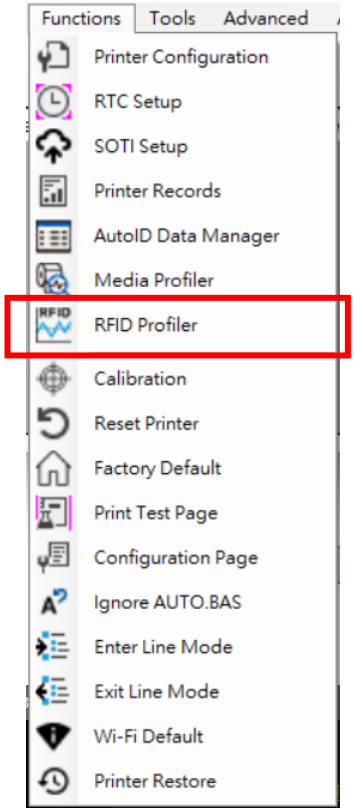


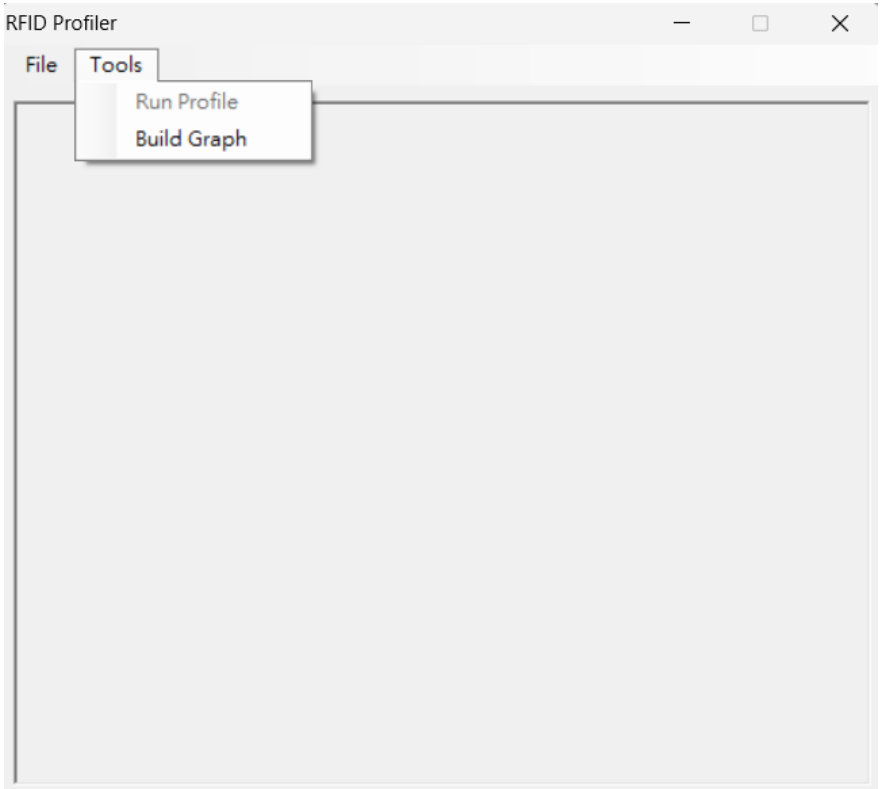


4.6 RFID Profiler

The RFID Profiler is a diagnostic tool that allows the user to profile RFID tags and diagnose any issues that may occur with those tags. This application works with the printer to create a tag profile that allows you to analyze successful write/read powers at each position on the tag. With the RFID Profiler you can execute the RFID/Media profile tests, capture profile data, save profiles for later viewing, and open existing profiles in the form of a graph.

Please refer to TSC RFID Manual for more information. Alternatively, you can scan the QR code below to have access to the TSC RFID Manual.

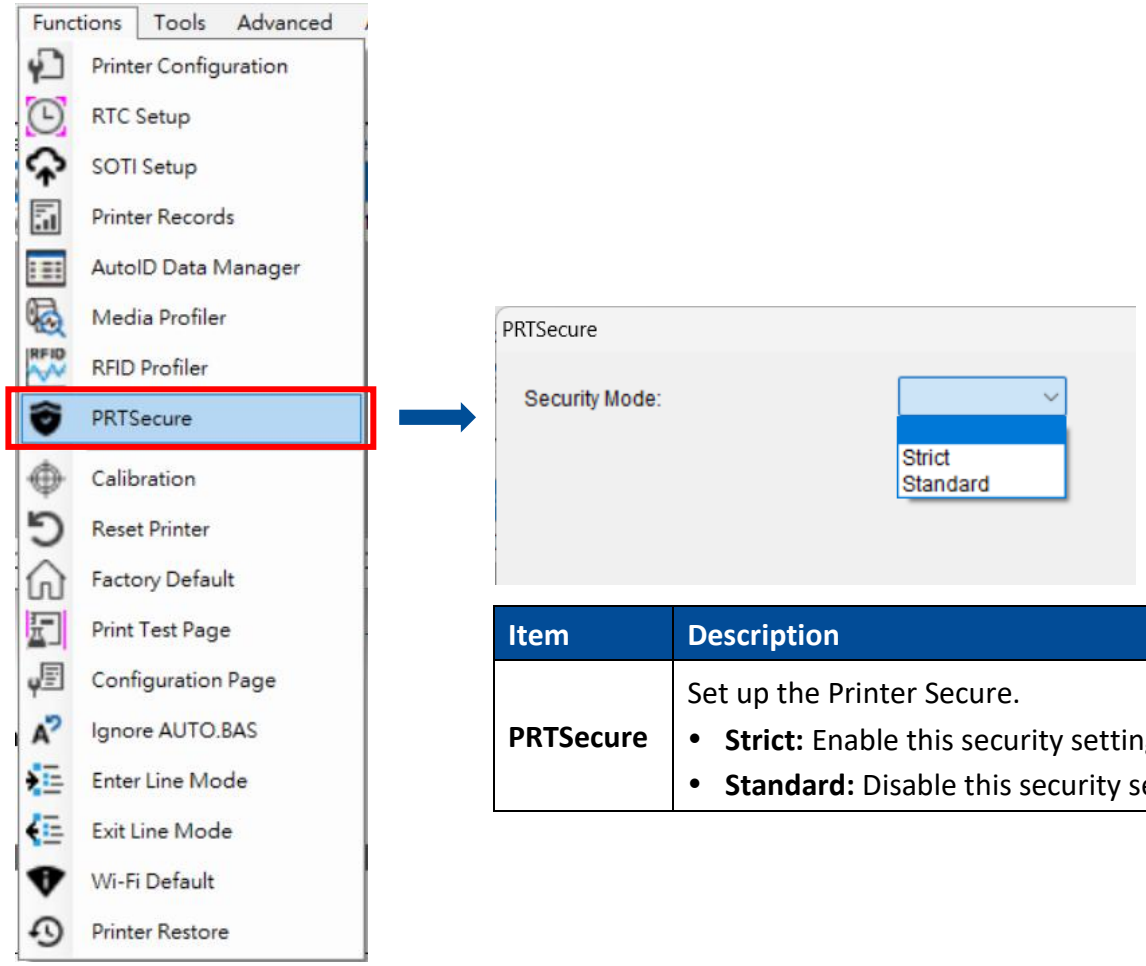




4.7 PRTSecure

According to the new European RED (Radio Equipment Directive) requirements, this product must have the "Network Block" disabled before its first network connection. Therefore, if you purchased this printer in Europe, please first connect it via USB and change the setting to **“Standard”** in **Functions > PRTSecure > Security Mode** before connecting it to the network. (This PRTSecure feature is supported only with TSC Console version V3.4.0.5 or later.)

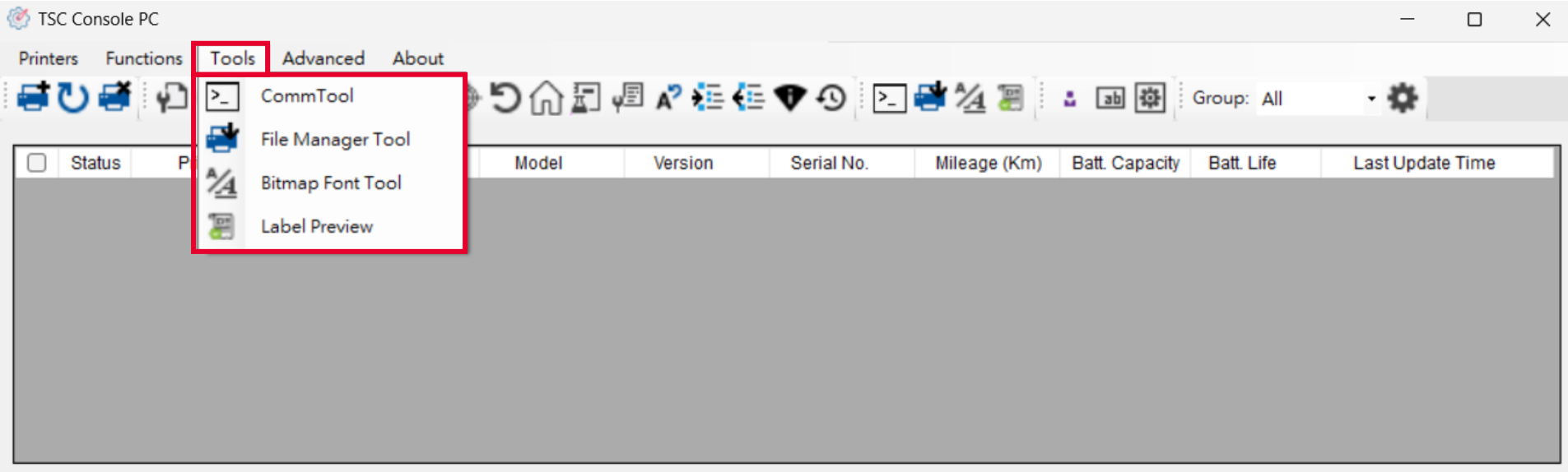
If you want to use **Strict Mode** to connect to the network, please refer to the **TSC Network Security Manual** for more details. Click the document link or scan the QR code below to access the manual.



Item	Description	Default
PRTSecure	Set up the Printer Secure. • **Strict:** Enable this security setting - Network setup via network is blocked • **Standard:** Disable this security setting - Normal network setup allowed	Europe Unit: Strict (Network Block enabled)

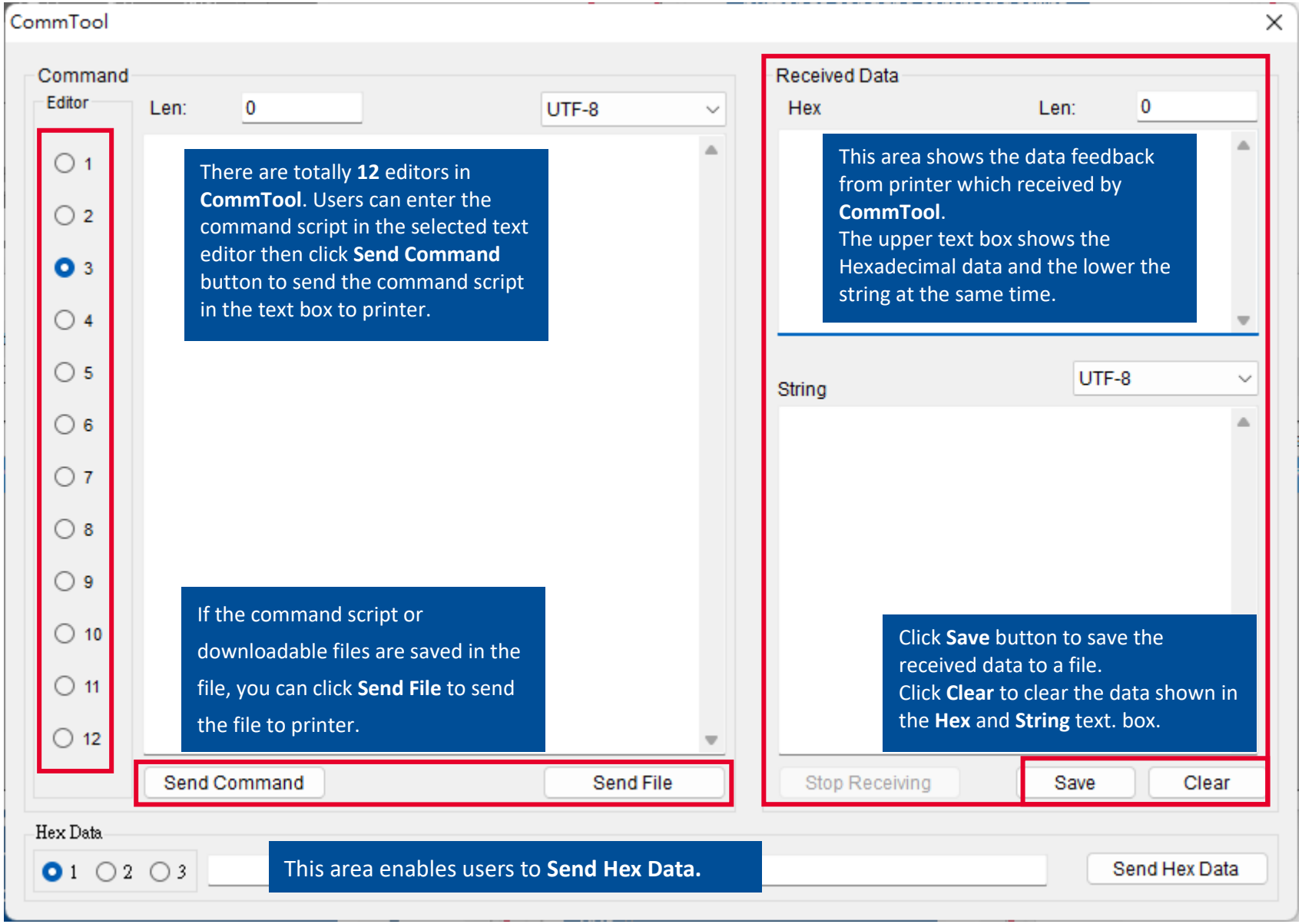
5. Tools

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 Comm Tool

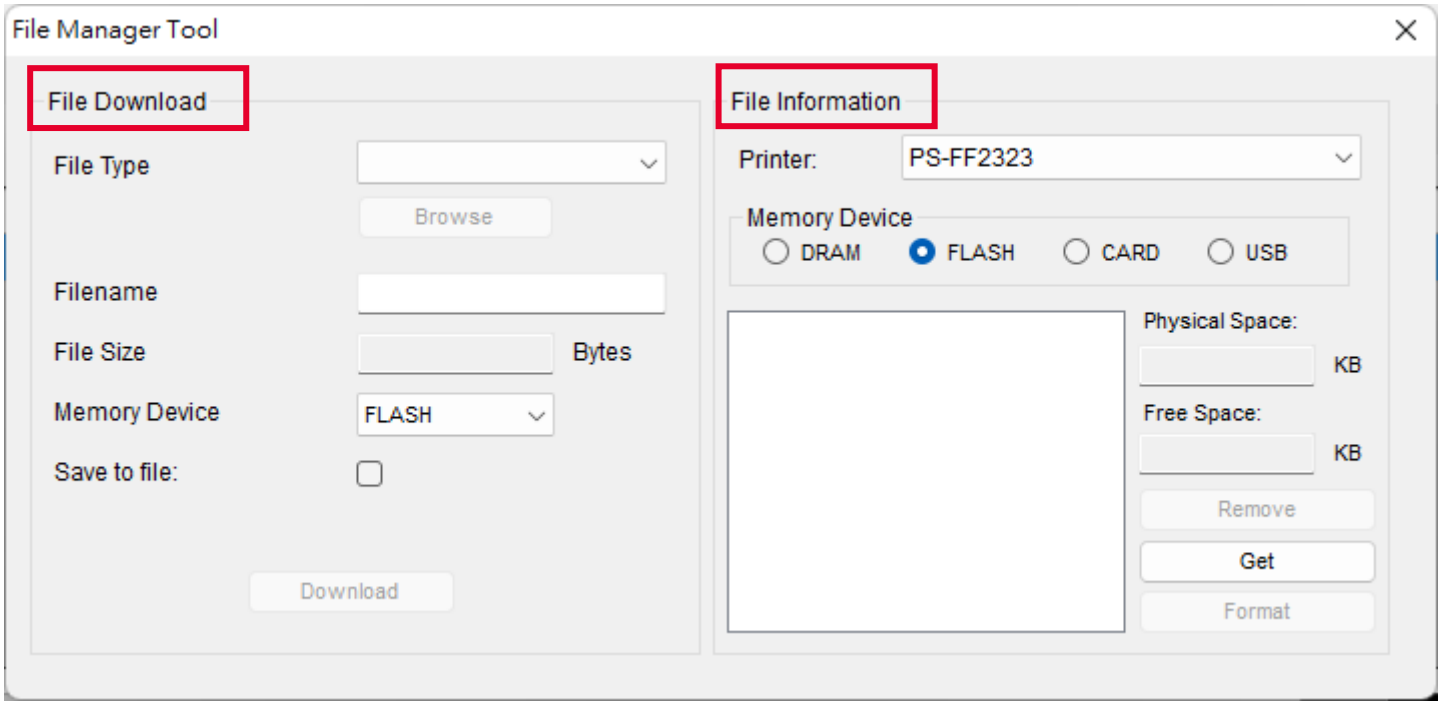
CommTool supports programming languages and the hex data commands.



5.2 File Manager Tool

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

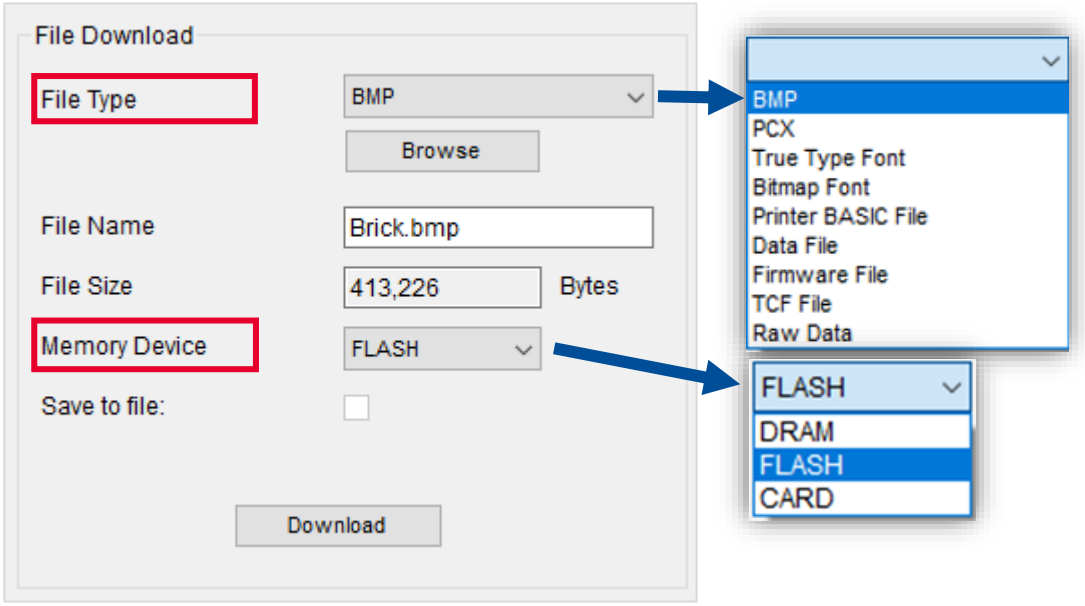
- **File Download** shows the interface for selecting file types, filename and download destination.
- **File Information** indicates downloaded files and available memory, deleting files in the selected memory device.



5.2.1 Download Files

Below steps will demonstrate how to download the files to the printer:

1. Choose the **File Type.**
2. Select **Browse** to find the file.
3. Specify the **Momory Device** to be stored with.
4. Import file to printer by clicking **Download.**



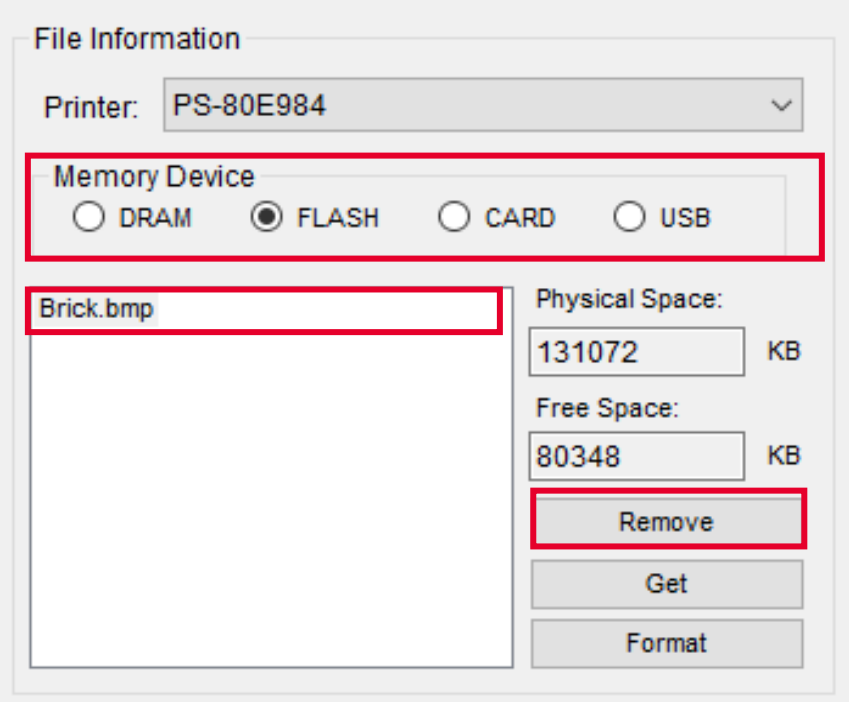
Note:

- **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.**

5.2.2 Manage the Storage

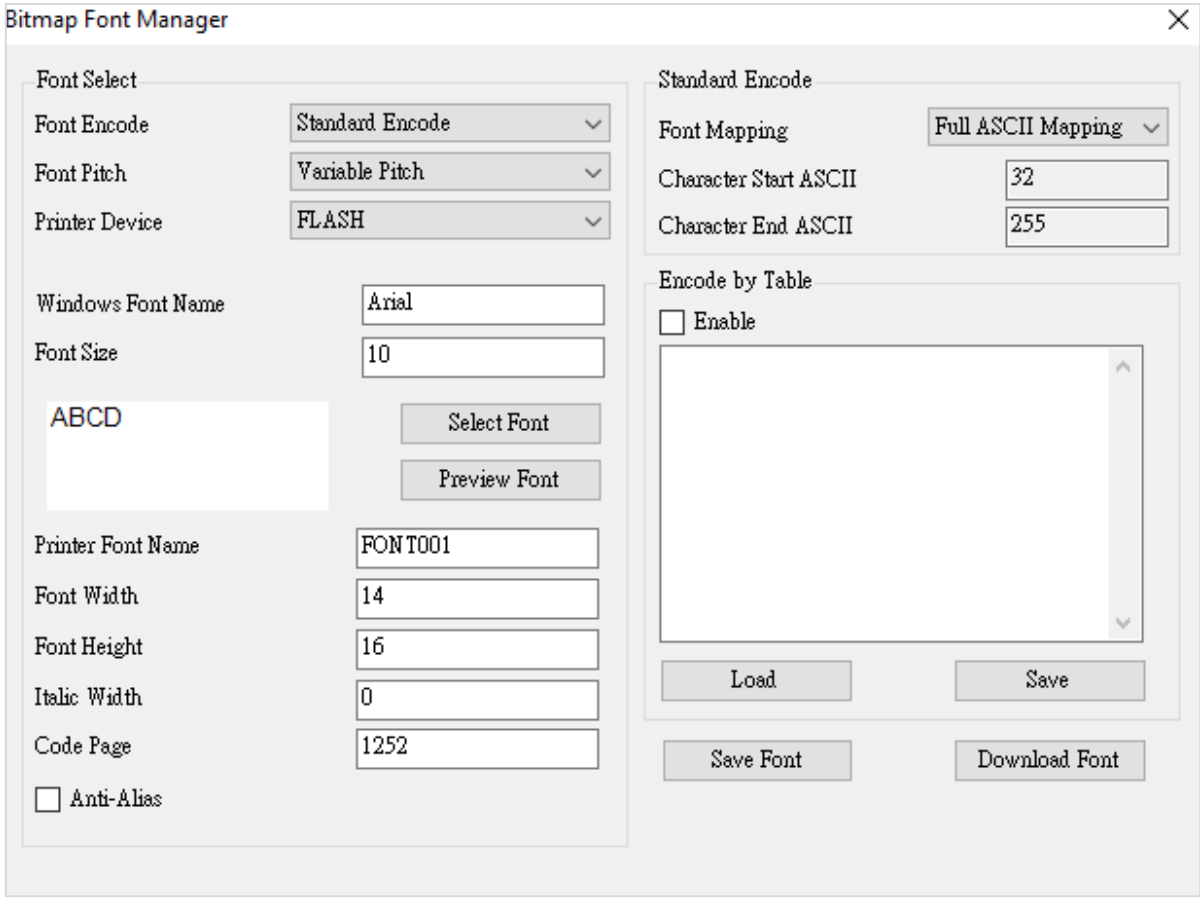
Below steps will demonstrate how to manage the storage from the printer:

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



5.3 Bitmap Font Manager

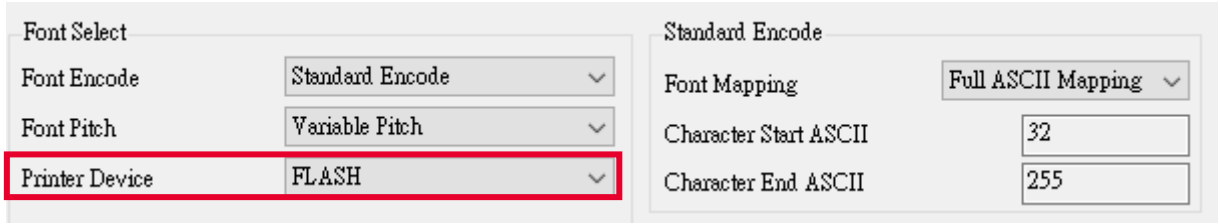
Bitmap Font Manager could convert the selected TTF font into printer format bitmap font. Both fixed pitch and variable pitch bitmap font are supported.



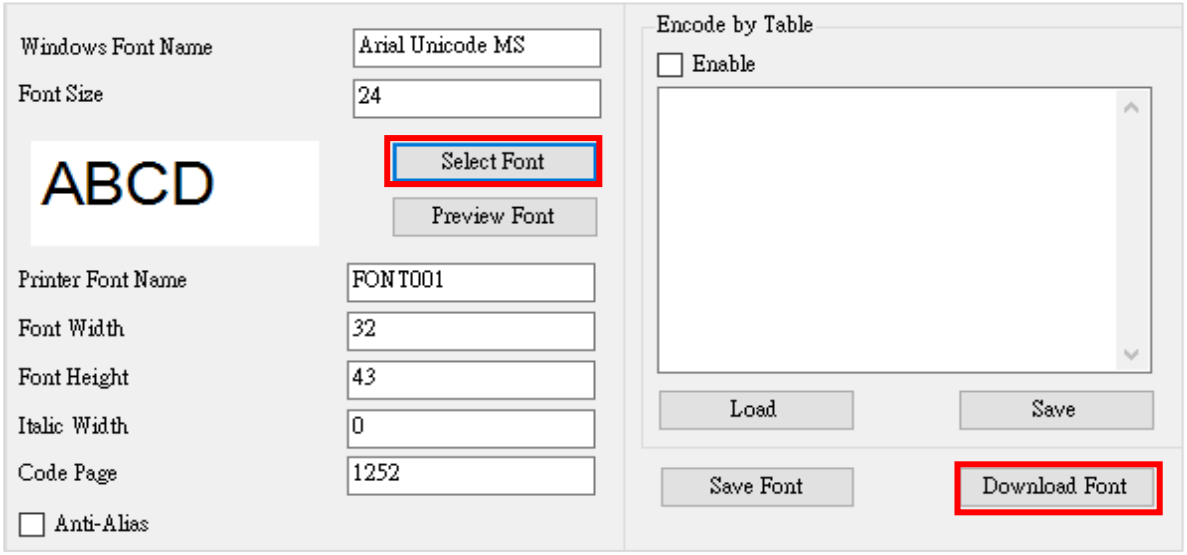
5.3.1 Download Fonts to Printer

Below steps will demonstrate how to download fonts to the printer:

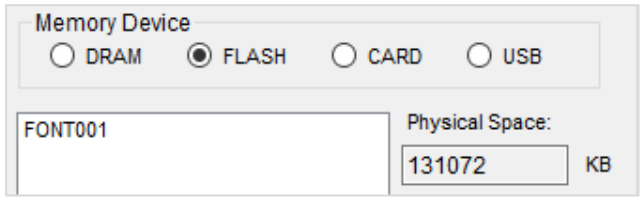
1. Set up font setting and **Printer Device**.



2. Select Font and click **Download Font** to finith settings.



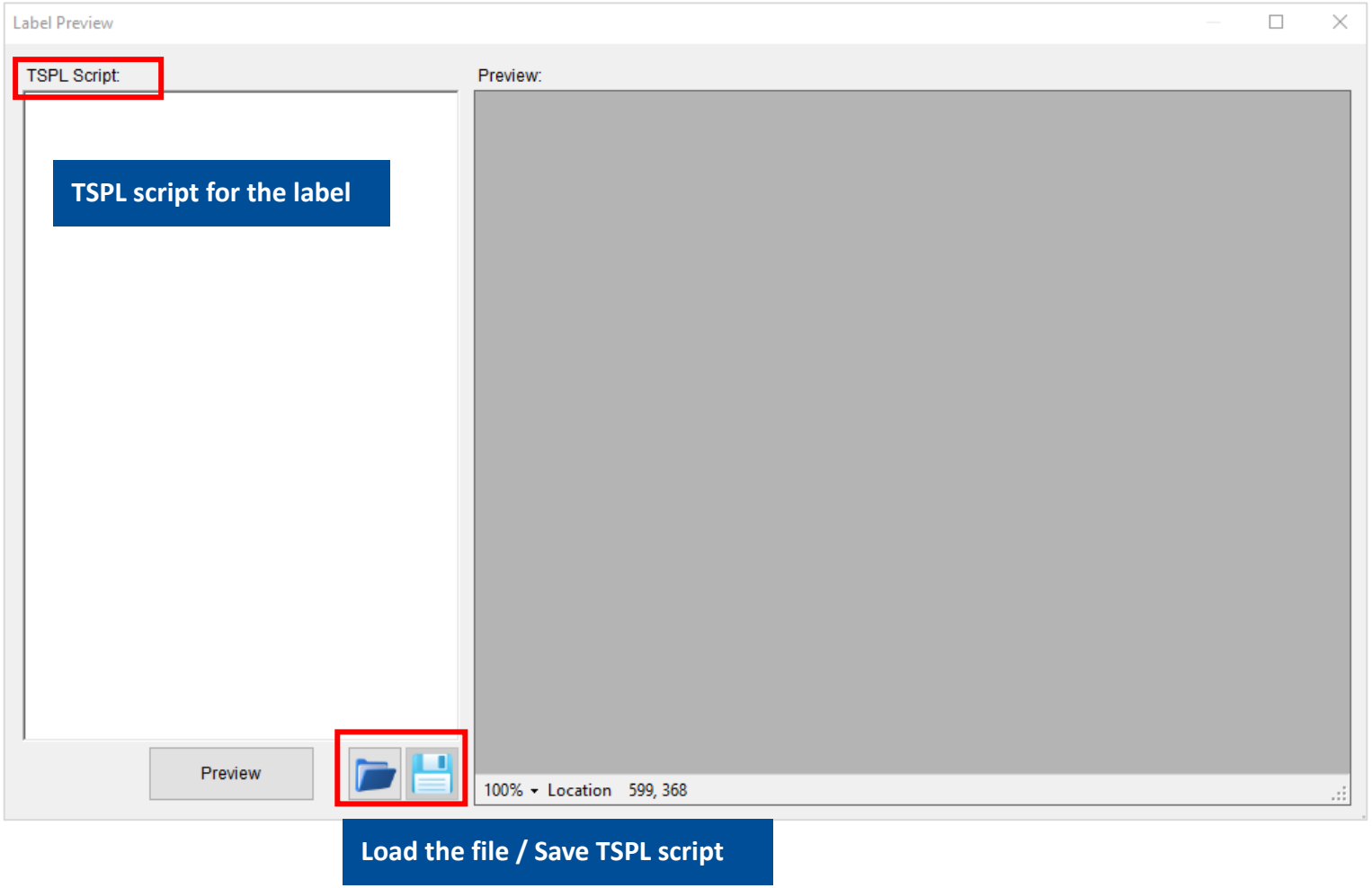
3. Check **File Manager.**



5.4 Label Preview

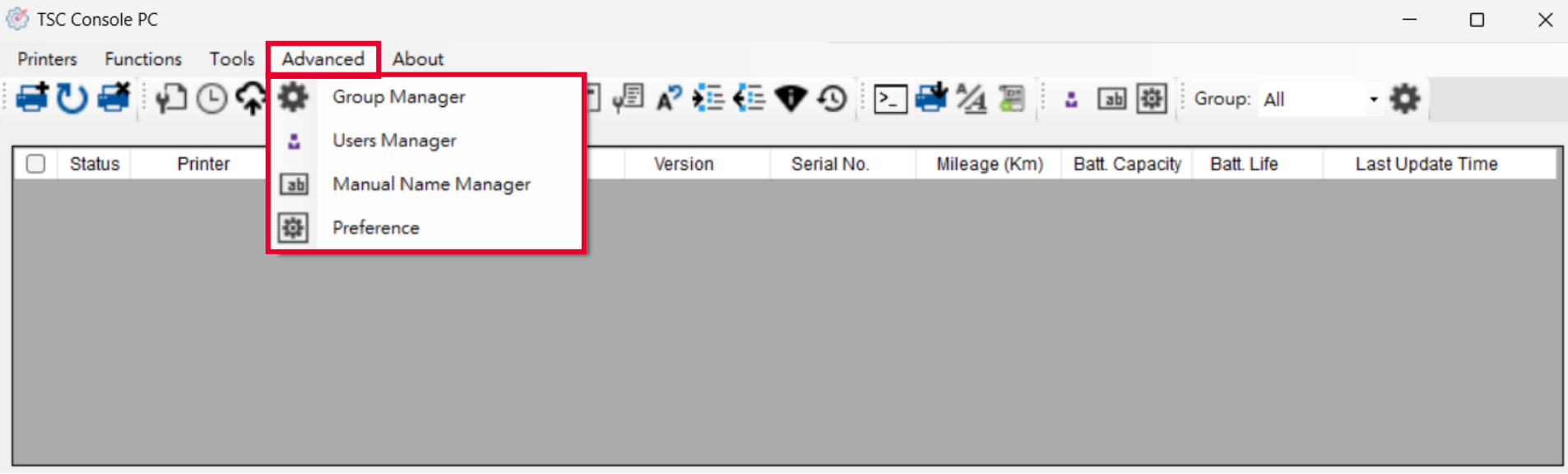
Label Preview enables user to preview the label by TSPL command or loading the file.

Note: This function is only supported after firmware version 2.13



6. Advanced

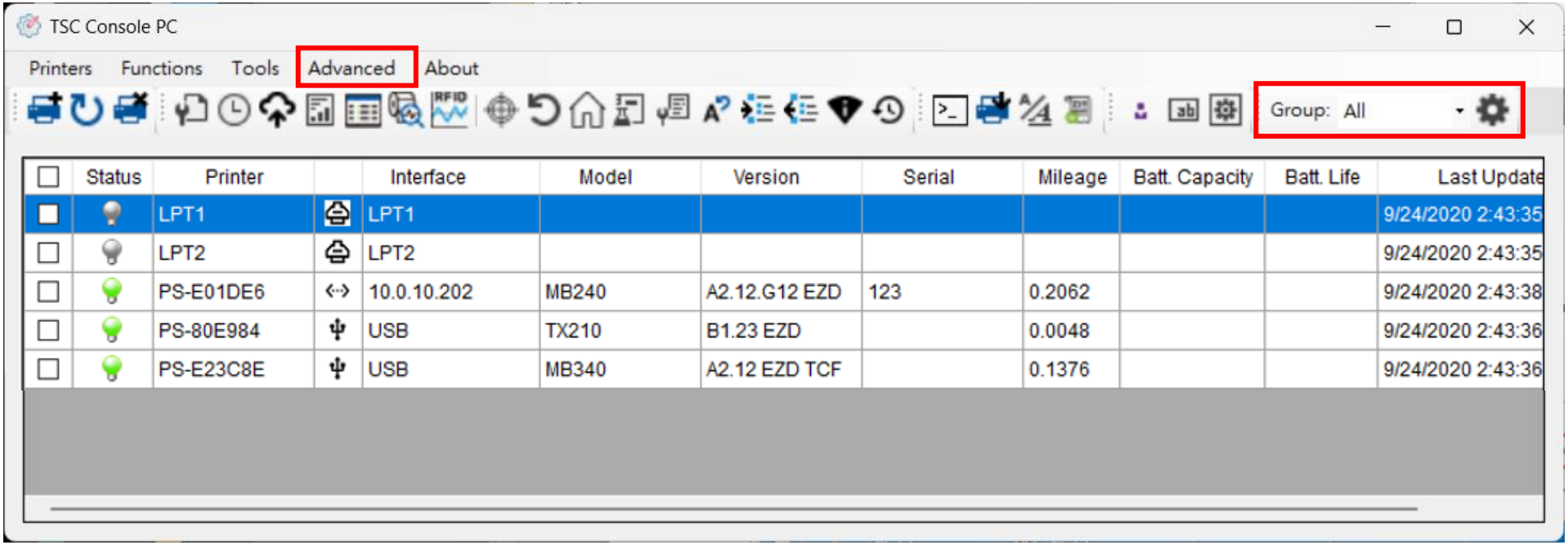
In **Advanced** section, users are able to set the group setting, set the password and alert, and adjust preference through TSC console to the printer.



6.1 Group Manager

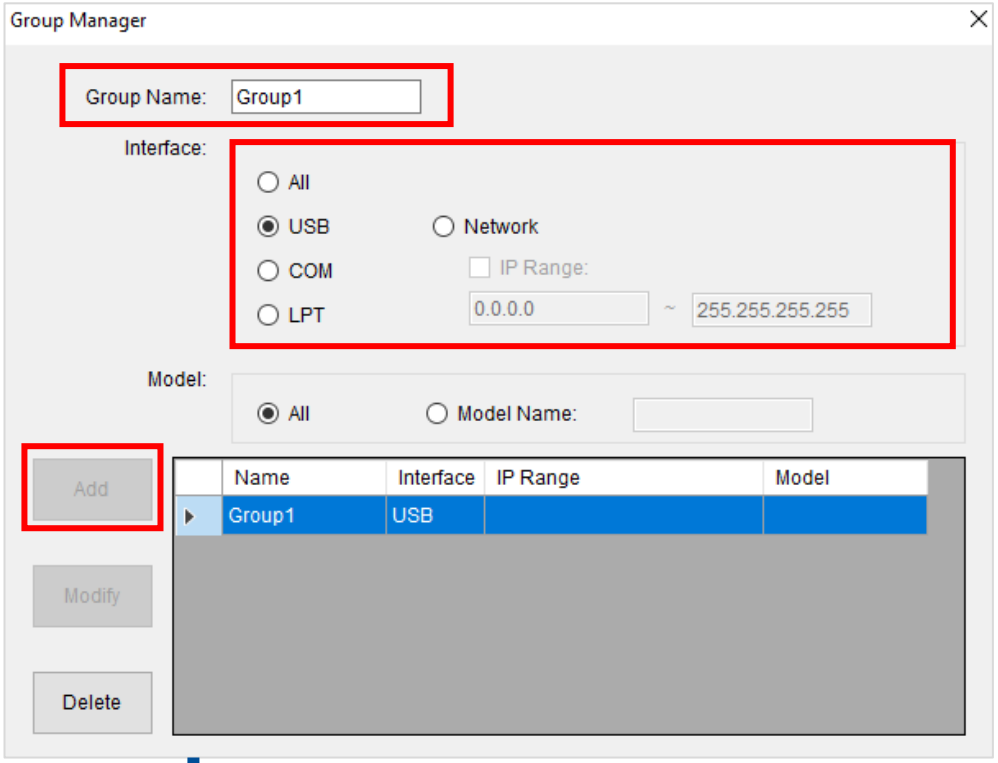
Use **Group Manager** to select and filter the certain interface to make it easier to setup printers.

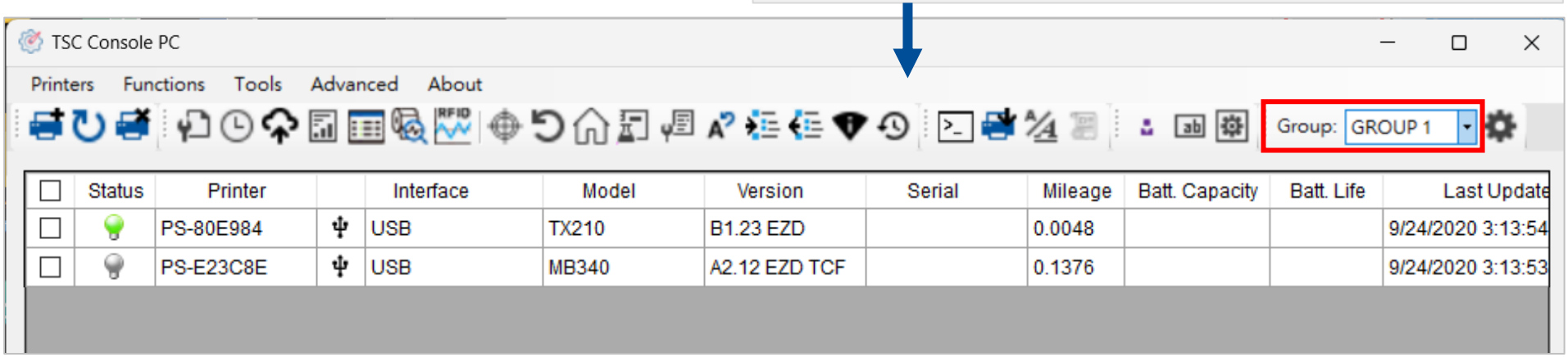
Click **Advanced** to access **Group Manager** or click on the **Quick Access Icon** as below.



6.1.1 Group the Certain Interface

1. Enter the Group Manager.
2. Type the Group Name.
3. Select the Interface.
4. Click Add to complete setting.
5. Back to interface and select Group.

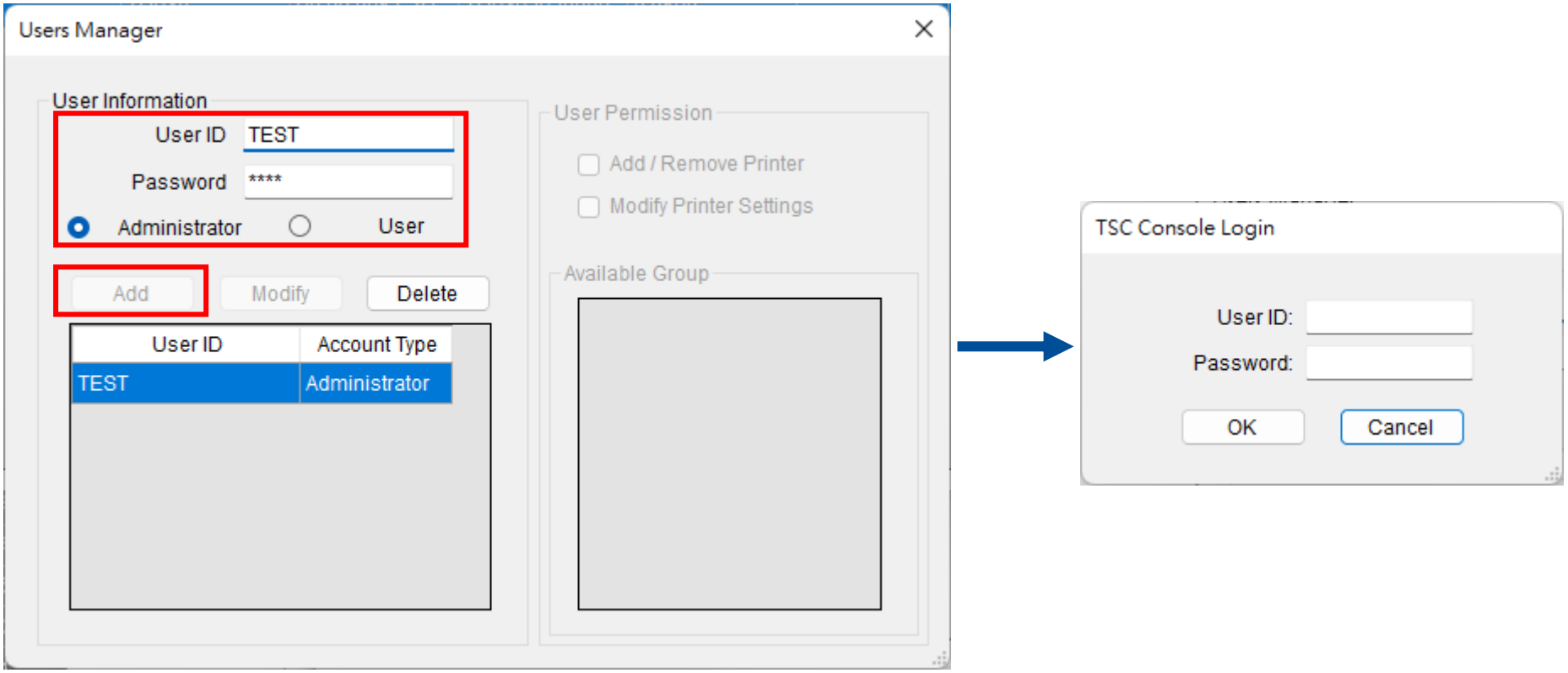




6.2 Users Manager

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

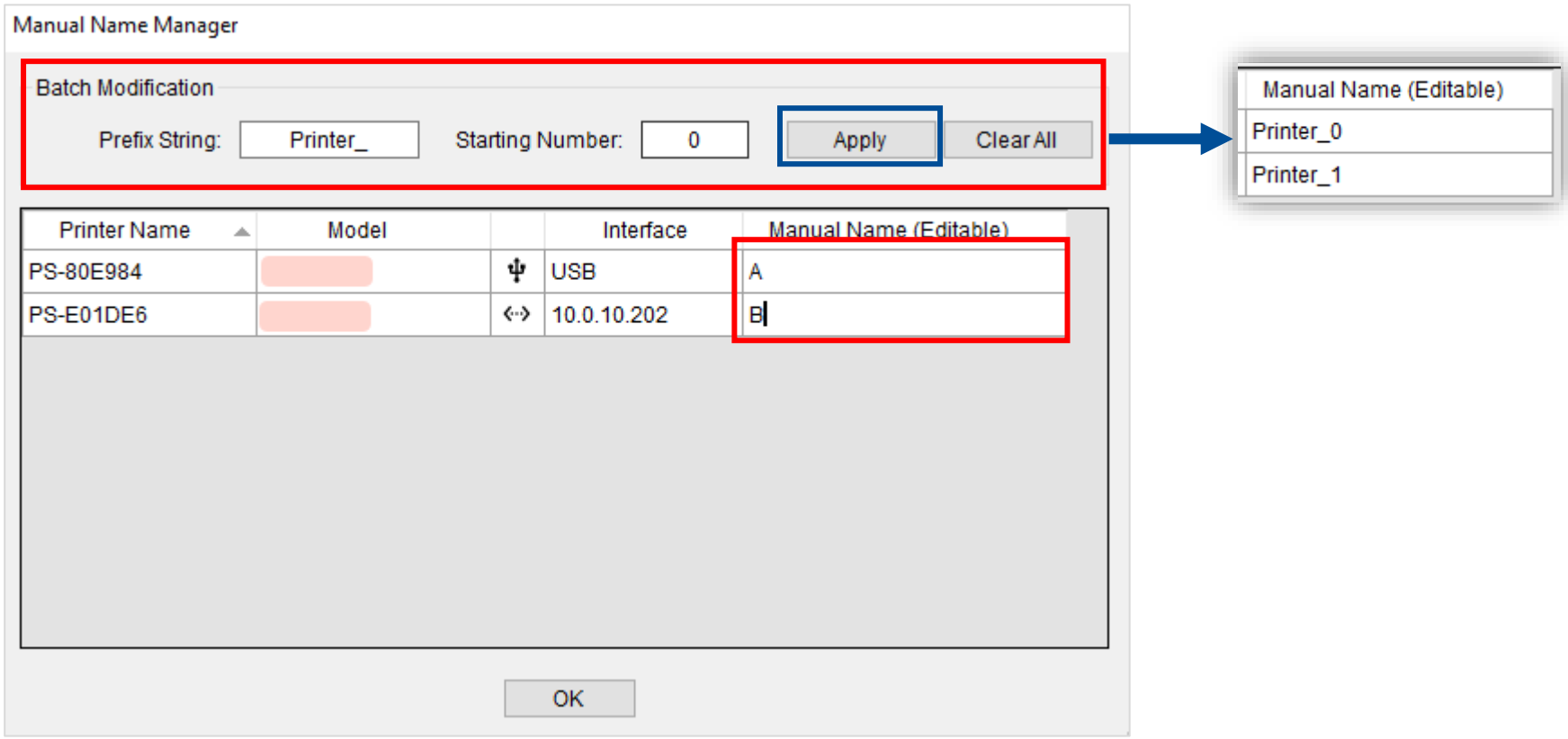
1. Enter the **User ID** and **Password.**
2. Click **Add** to complete setup and **TSC Console PC** will restart.



6.3 Manual Name Manager

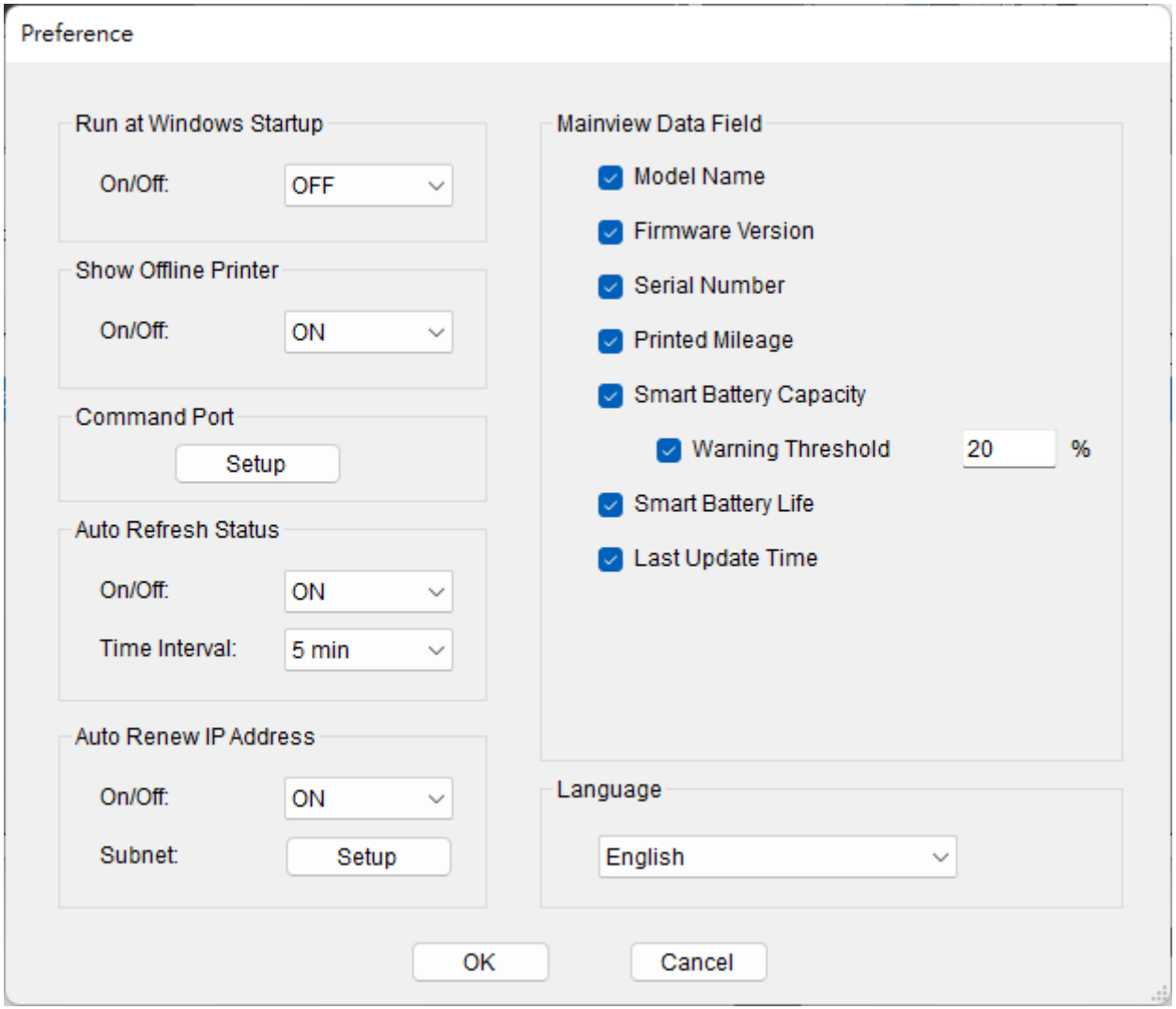
Manual Name Manager provides the function which could help users modify printers' name making it more recognizable.

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



6.4 Preference

Preference provide users functions to adjust system settings and languages.



7. Revision History

Date	Content	Editor
2024/7/2	• Update the document layout	Camille Pao
2025/9/3	• Update TSC Console to TSC Console PC • Update Liability Statement • Add RFID info. • Add AutoID Data Manager, Media Profiler and RFID Profiler sections	Camille Pao
2025/11/10	• Add PRTSecure section • Add the chapter "Before Connecting to the Network" to the Network section	Camille Pao

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