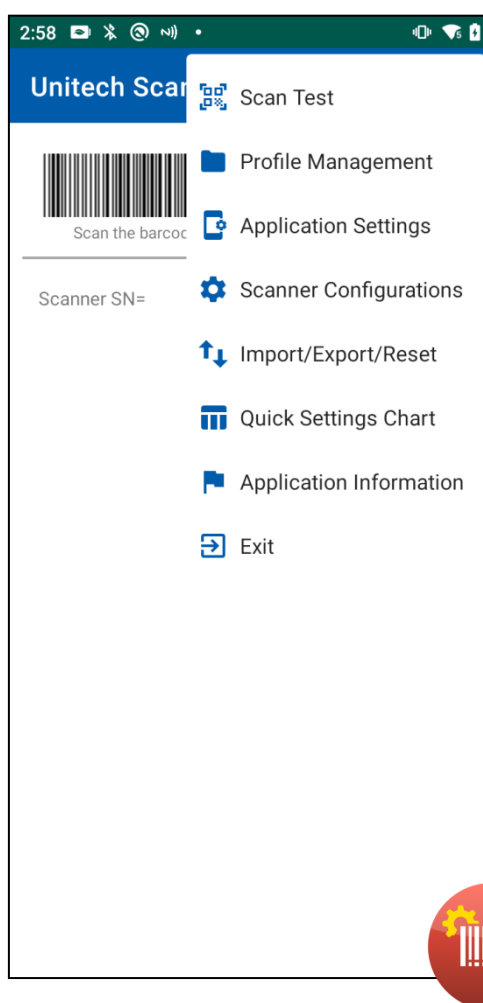


Unitech Scanner Utility

- V1.4.6 -



User's Manual

Version 1.4

Revision History

Date	Revision	Change Description
2021/8/12	issue 0	First release (USU 1.0.0)
2022/5/31	Issue 1	Add supported Devices (USU 1.3.23)
2023/03/24	Issue 2	Add multi-profile feature (USU 1.4.6)

Preface

About This Manual

This manual is intended for users of the Unitech Scanner Utility (hereafter may also be referred to as the abbreviation USU) Version 1.4.

Unitech Scanner Utility V1.4 consists of three main features:

- Main GUI (Graphical User Interface) for scanner connection and configuration.
- Multi-profile function, which helps user to automatically apply different label formatting rule when foreground application is changed.
- APIs for system integrators to integrate connection function, configuration function and data retrieval function from the scanner.

In this manual, the GUI part of the scanner utility will be discussed, while the APIs provided by the Scanner Utility will be discussed in a separate Programming Guide titled “Unitech_Bluetooth_Service_API_Programming_Guide”.

Worldwide Support

Unitech's professional support team is available to quickly answer questions or assist with technical-related issues. Should an equipment problem occur, please contact the nearest Unitech regional service representative.

For complete contact information please visit the Web sites listed below:

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China	Japan
Tel: +86-59-2310-9966 E-mail: info@cn.ute.com Address: Room401C, 4F, RIHUA International Mansion, Xinfeng 3rd Road, Huoju Hi-tech District, Xiamen, Fujian, China Website: http://cn.ute.com	Tel: +81-3-35232766 E-mail: info@jp.ute.com Address: Kayabacho Nagaoka Building 8F., 1-5-19 Shinkawa, Chuo-Ku, Tokyo, 104-0033, Japan Website: http://jp.ute.com
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Chapter 1 - Introduction

Unitech Scanner Utility (hereafter may also be referred to as “USU”) is an Android application which helps users connect, configure, and use a supported Unitech Bluetooth scanners. The scanned data will be wirelessly transmitted and reported as keyboard data to user’s applications. USU can be installed and run on Unitech devices or Non-Unitech devices with Android 9 or above.

1.1 Feature Highlights

The key features of the Unitech Scanner Utility are:

- **Scanner Quick Pairing**
 - To pair a supported Unitech Bluetooth scanner with an Android device, simply scan the Quick Pairing Barcode on the USU home screen, confirm the pairing, and then the pairing process will automatically complete. The paired scanner will be associated with the Android device until if you pair another scanner with it.
- **Scanner Information**
 - Information includes serial number, firmware version, battery status, and the Bluetooth information such as name and MAC address.
- **Scanner Configuration**
 - Configure the scanner symbology and firmware settings. The settings can also be exported to a file and then imported to another Android device running USU.
- **Multiple Data Output Options for scanned barcodes**
 - When a barcode is scanned by the connected scanner, USU supports a number of output options on the Android device to meet the

different requirements of business applications. USU can output the scanned data as Keystrokes (Key Emulation), or as Clipboard Paste (Copy & Paste), and optionally output as Android Intent Data.

- **Advanced Label Formatting with Regular Expressions**
 - USU supports both basic and advanced label formatting options. Label formatting is a powerful tool to format scanned data by series of setting before outputting to the user applications. Basic formatting allows users to specify prefix, suffix and terminator to append to the scanned barcode data; Advanced formatting allows user to specify post-processing rules via Regular Expressions and Actions for each barcode type.
- **Unitech SU Keyboard, an enterprise keyboard with double byte character support**
 - Unitech SU Keyboard is an enterprise keyboard that powers a variety keyboard functions in USU. It offers a more comfortable typing experience with Letters, Numbers, Symbols, Emoji, and the on-screen Scan Button. SUKeyboard also supports outputting double-byte characters encoded as UTF-8, BIG5, GBK, and Shift_JIS.
- **Automatic enforce setting function**
 - When a scanner is paired with the Android Device, the Automatic Enforce Setting function gives the ability to synchronize its settings with a specified setting file. This feature ensures that every connected scanner has the proper settings approved by the corporate IT admin.
- **Auto Lanuch App**
 - USU can be configured to automatically launch an application on the Android device every time when a scanner is quick paired. It gives the ability for the scanner users to immediately start working on their work app right after their scanner is paired and connected to their Android device.

- **APIs for application integration**
 - Developers can make use of the APIs to integrate USU functions into their own business apps. The sample application (named BTScanner) is provided for free with source code and the programming guide, supporting the developers in learning about the API integration.

- **Profile Management**
 - After USU 1.4.0, it supports “Multi-Profile” function, which is able to apply different data editing rule when the foreground application is changed.

1.2 Supported Devices

In version 1.4, USU supports the following Unitech Bluetooth scanner models:

- MS652Plus with engine SE2707 with firmware version 1.47 or above.
- MS652Plus with engine SE4107 with firmware version 3.03 or above.

And USU can be installed and run on these Android Devices:

- Non-Unitech branded Android devices running Android 9 or later
- Unitech branded Android devices running Android 9 or later

USU is a built-in application in the following Unitech device model:

- WD200 Android 10

Chapter 2 – Initial Setup

When Unitech Scanner Utility is launched at the first time, user needs to set up initial settings for USU, including permissions, Bluetooth address, and the SUKeyboard functions.

2.1 Allow Permissions

USU needs to get permissions from users in order to access files on the Android Devices. Press “ALLOW” to give the permission to allows USU to import or export setting files.

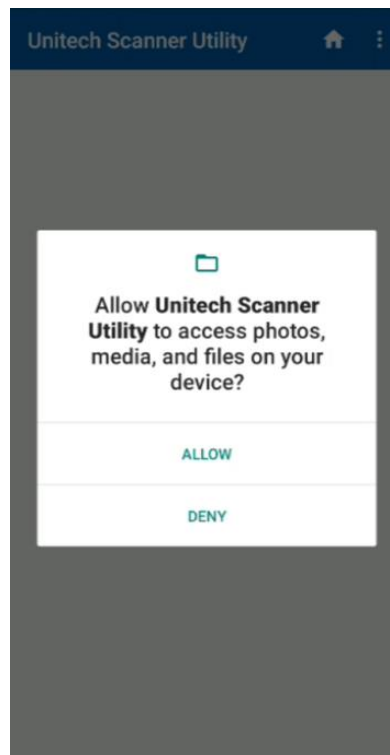


Figure 2.1.1

2.2 Set Bluetooth MAC Address

The Bluetooth MAC address of the Android device must be configured in USU first. Due to Android security restrictions, Android Devices running Android 9 or later requires the user to manually input the BT MAC Address.

If USU prompts for Bluetooth Address, please follow these steps to fill in the information.



Figure 2.2.1

Step1: Find out the Bluetooth Address of the Android Device

Depending on the Android Version running on the device, the Bluetooth MAC Address information can be obtained by visiting these pages in the Settings app:

Android Version	Where to find the Bluetooth MAC Address
Android 9	Android Settings → About Phone → Bluetooth address
Android 10	Android Settings → About Phone → Bluetooth address
Android 11	Android Settings → About Phone → Bluetooth address
Android 12	Android Settings → About Phone → Bluetooth address

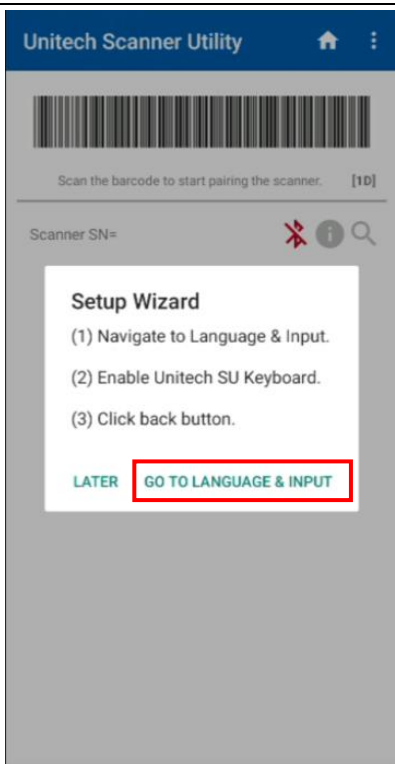
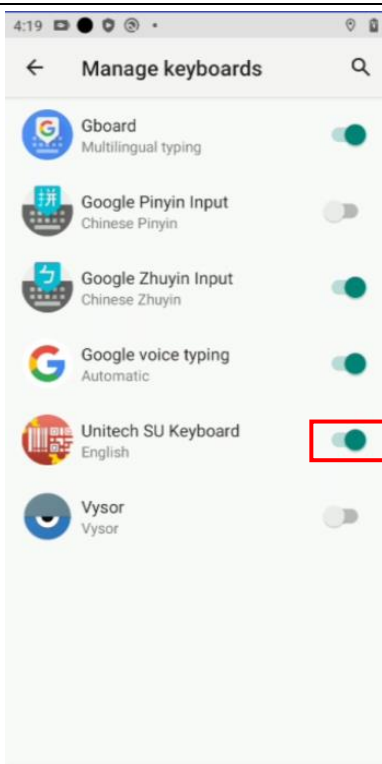
Table 2.2.1

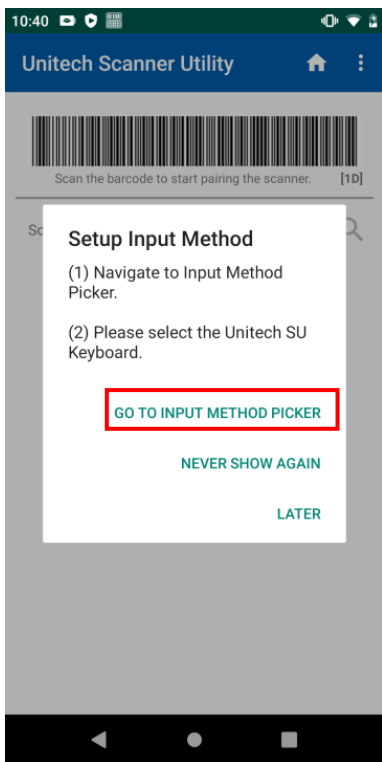
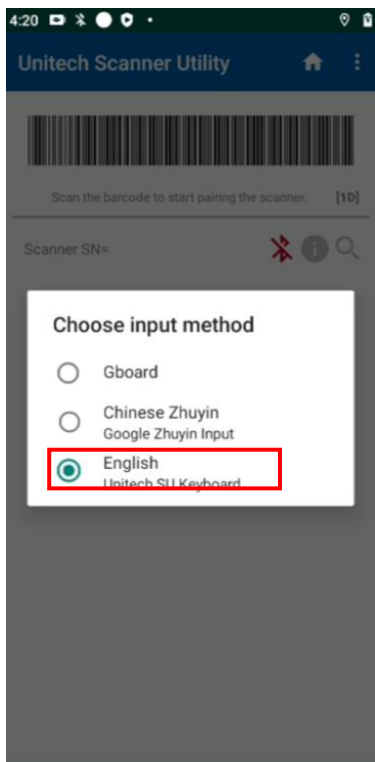
Step2: Enter the Bluetooth Address into USU

When entering the BT MAC address in Figure 2.2.1, please enter all the 17 characters including the colon characters. The letters can be in either capital or small forms. For example: 00:16:09:4D:63:5C

2.3 Setup Unitech SU Keyboard

USU uses Unitech SUKeyboard for the majority of its Scan to Key related functions. User needs to manually set the Unitech SUKeyboard as the system default virtual keyboard. Please check the following steps to complete the setup.

 Step1: press on "GO TO LANGUAGE & INPUT"	 Step2: Turn on Unitech SU Keyboard
--	---

 Step3: Please choose “GO TO INPUT METHOD PICKER”	 Step4: Select the option “English – Unitech SU Keyboard”
---	--

2.4 Allow device to be Bluetooth Discoverable:

To make sure the scanner can connect to the Android device, USU needs to turn Bluetooth on and set it to be discoverable. Please tap “ALLOW” when dialog being prompted in Figure 2.4.1.

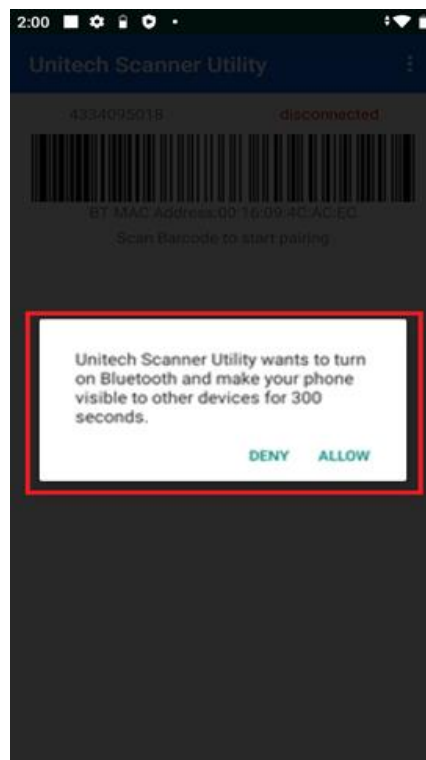


Figure 2.4.1

2.5 Quick Pair with Scanner

By now, USU is ready to pair with a supported Unitech Bluetooth Scanner. The main screen shows the Quick Pairing Barcode that allows user to pair working scanner with the device quickly.

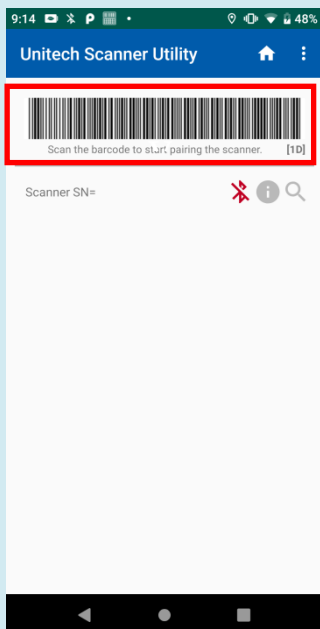
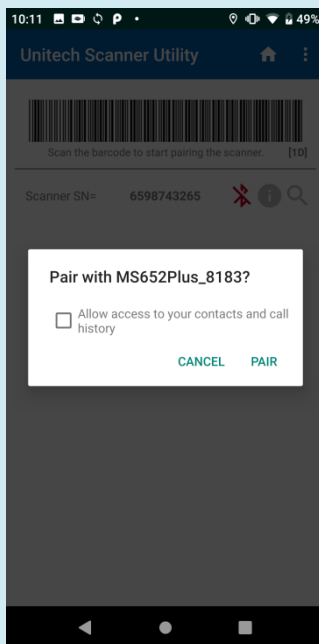
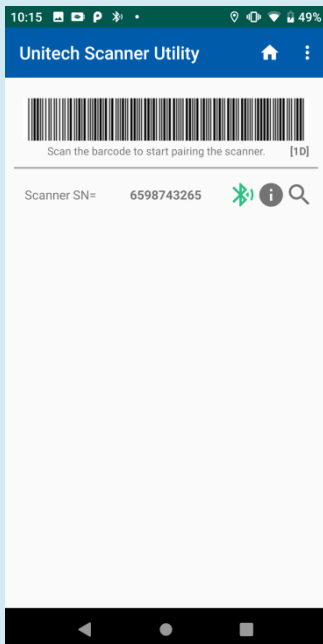
1. Scan Pairing Barcode	2. Confirm Pairing	3. Connection Built
Scan the pairing barcode on the main screen.	Tap the "PAIR" button when prompted.	Wait until the scanner is shown as connected.
		

Table 2.5.1

Use Unitech Bluetooth Scanner to scan the Pairing Barcode shown on the main screen, when the scanner is ready to pair with Android device, a Bluetooth Pairing confirmation dialog pops up and asks for the permission.

Grant the pairing and the scanner then tries to connect with Android device. Once connected, the Scanner Serial Number would be shown on the Android Device screen, and the Bluetooth icon turns green.

Note: USU is designed to work with one scanner at a time. When pairing a scanner with Android Device, all previously paired scanners would be replaced.

Chapter 3 – Home Page & Scanner Information

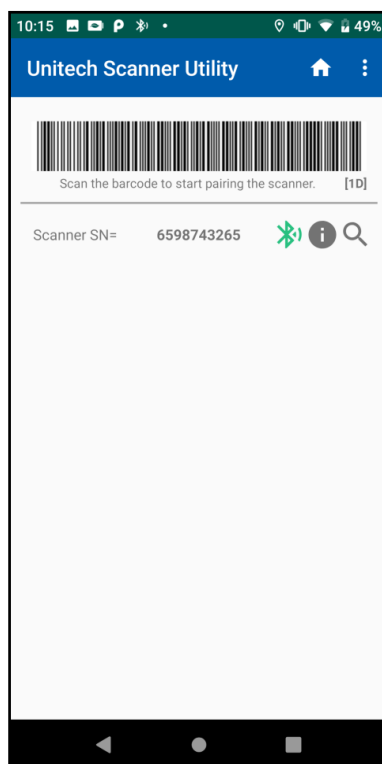


Figure 3.1

 : Lead users back homepage on any page.

 : Users can browse information of connected scanner through pressing this icon.

Scanner Info	
Name	MS652Plus_8183
Serial Number	6598743265
Bluetooth	34:15:13:7F:81:83
Battery Status	ok
Firmware Version	MS652Plus V1.47

Figure 3.2

The information includes name, serial number, Bluetooth information, battery and firmware version of connected scanner.



: Users can let connected s scanner send out beep sound three times and vibrate itself by press this icon. Its function is to remind which scanner is connected with Unitech Scanner Utility.

Chapter 4 – Application Menu

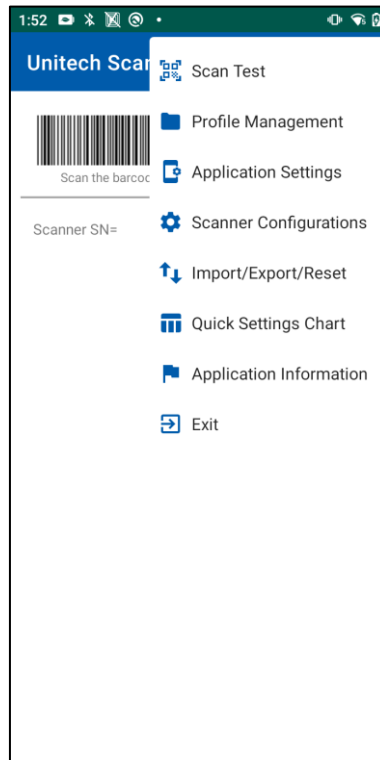


Figure 4.1

4.1 Scan Test

User can use connected Unitech Scanner to scan barcode. The information of scanned barcode shows in the test area.

4.2 Profile Management

Profile is a series of setting includes App Associations, Data Wedge Settings and Label Formatting. It helps to apply the different Data Wedge Settings and Label Formatting rule when the foreground application is changed.

4.3 Application Settings

Users can alter some settings about USU. More details about application settings are introduced in chapter 6.

4.4 Scanner Configurations

As a Unitech Scanner has paired with Android Device, user is able to access the settings and configure. The setting options depend on different Unitech Scanner supported functions.

4.5 Import/Export/Reset

The settings of “Scanner Configuration” and “Application Settings” can be exported as a setting file. This file can be saved to administrator PCs or other Android devices to be imported back again in the utility. The setting file can also be used with the Automatic Enforce Setting function.

4.8 Quick Settings Chart

Provide “Scanner Type”, “Un-Pair” and “Factory Default” barcode for user to modify status of their connection and actions of connected Unitech Scanner. More details about three barcodes are introduced in chapter 10.

4.9 Application Information

User can obtain the version of USU and preliminary description. Besides, the copyright information is shown at this part.

4.10 Exit

After version 1.4, USU is designed as a service. It stands that USU still works even it has been swiped off by user. To completely close USU, user needs to click “Exit Scanner Utility” in USU as shown in Figure 4.10.1.

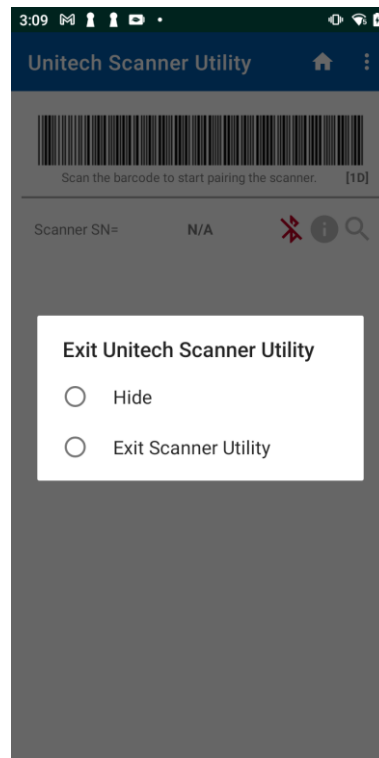


Figure 4.10.1

Chapter 5 – Scan Test

USU converts scanned data as keyboard inputs to apps running on your Android devices. In other words, Scan to Key service is enabled by default. Therefore, users can open any application, focus in a text field, and then trigger the scanner to get the scanned data. USU also provides a testing area to show scanned data by tapping menu → Scan Test. In the page, when users use Unitech Scanner to scan barcode, the information of scanned barcode would display in the test area.

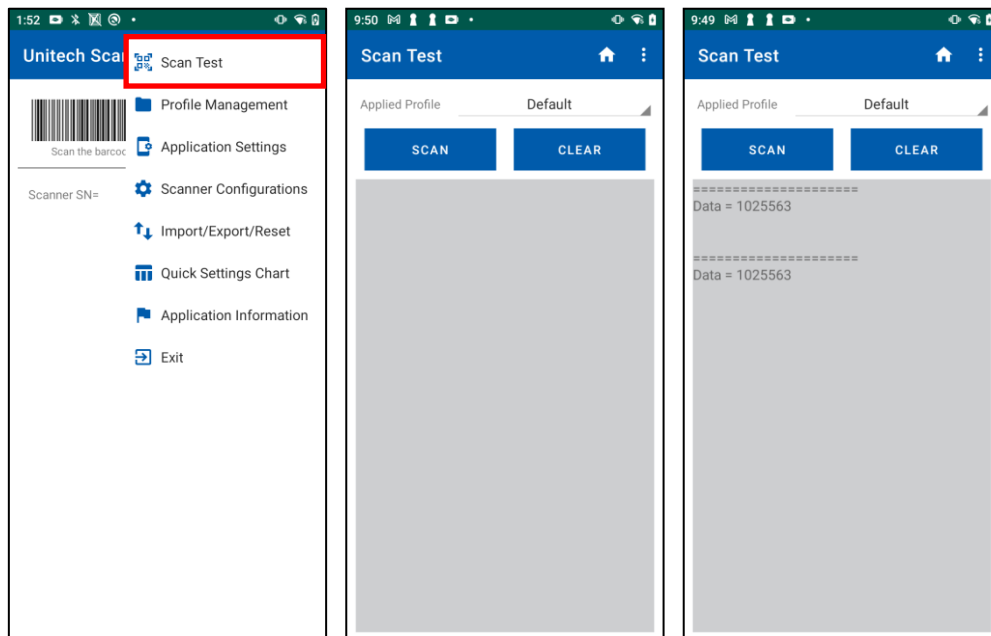


Figure 5.1

Chapter 6 – Profile Management

User can go to Profile Management by tapping Menu → Profile Management.

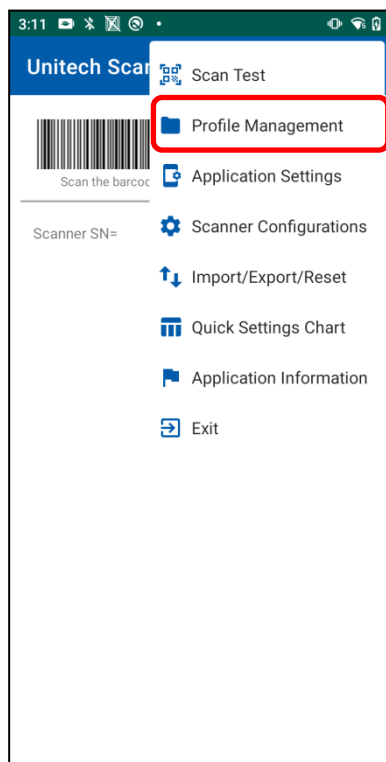


Figure 6.0.1



Figure 6.0.2

Profile Management helps “Data Wedge Settings” and “Label Formatting” only works when foreground is switched to the associated application.

Note: In USU, there is a default profile. This profile aims to set up Data Wedge Setting and Label Formatting for the application with no profile associates. In other words, priority of settings in customize profile is higher than default profile.

6.1 Create Profile

User can add customized profile by click “Add Icon” in the right-top corner and

give the specific name as shown in Figure 6.1.1.

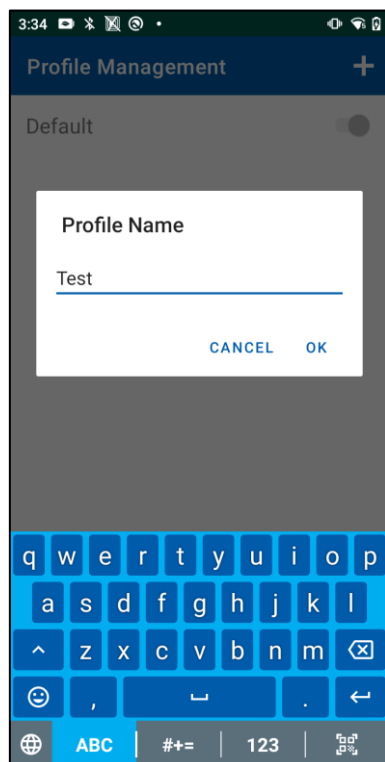


Figure 6.1.1

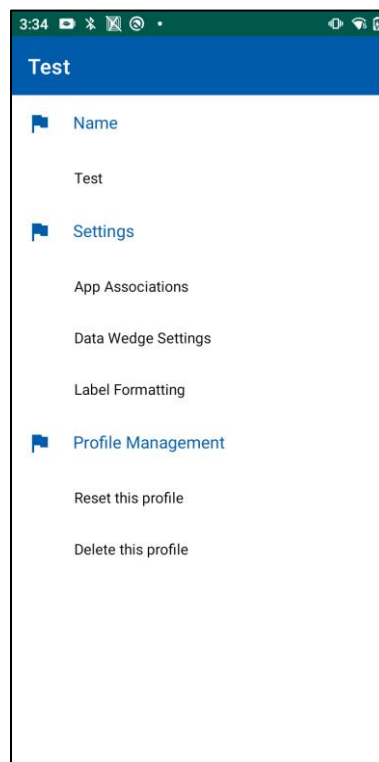


Figure 6.1.2

Table 6.1.1 shows the instruction of each setting in Figure 6.1.2.

Setting Item	Description
Name	Name of profile
App Associations	To apply Data Wedge Settings and Label Formatting when the selected app in foreground
Data Wedge Settings	To configure Receive Data Settings, Ack Settings and Intent Settings
Label Formatting	To configure data editing rule
Reset this Profile	To reset the profile to factory settings
Delete this Profile	To delete the profile

Table 6.1.1

6.2 App Associations

In “Default” profile, user cannot edit “App Associations” because it is for the application which hasn’t been associated.

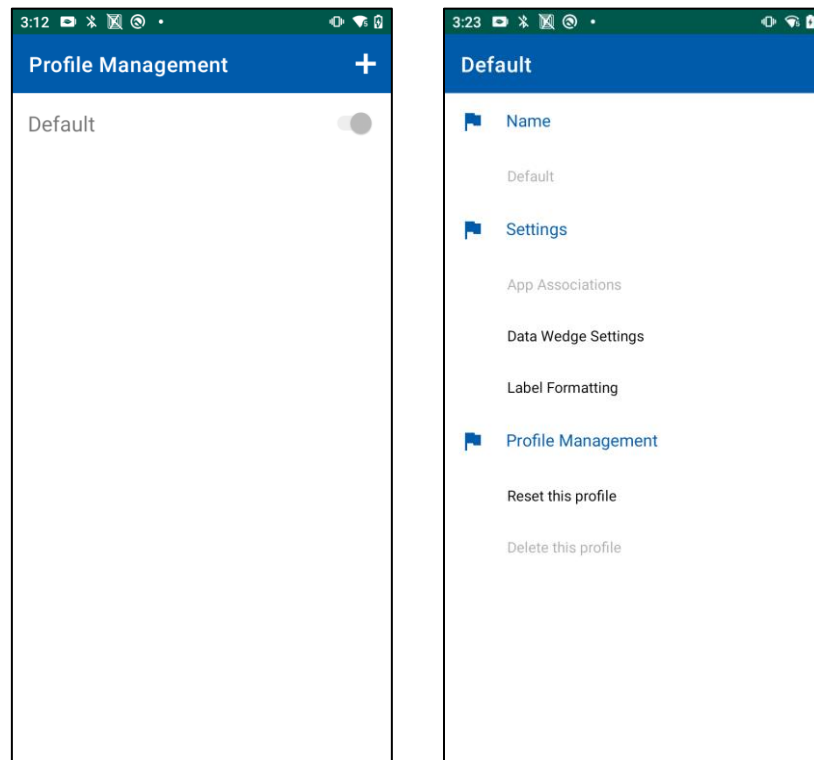


Figure 6.2.1

Under the customized profile, user can select the applications which need to associate with the profile as shown in Figure 6.2.2.

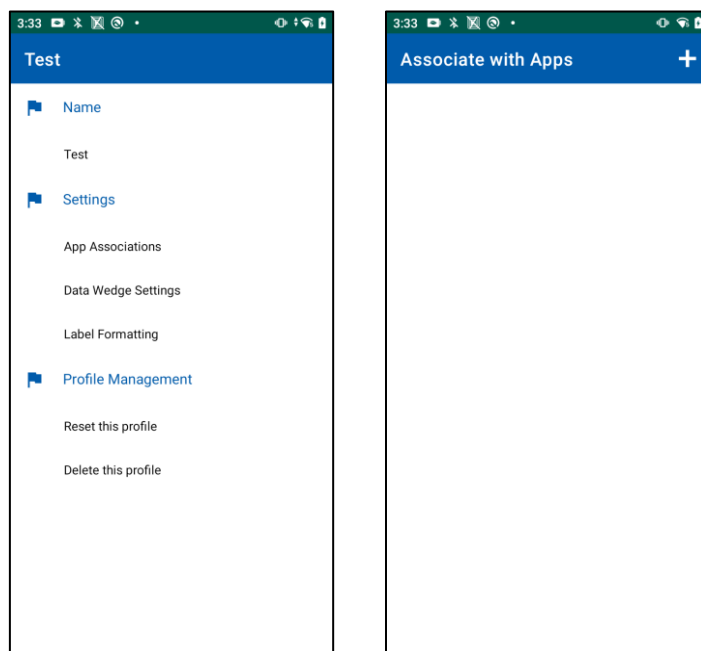


Figure 6.2.2

Next, as shown in Figure 6.2.3, user can add the installed applications to app associations list.

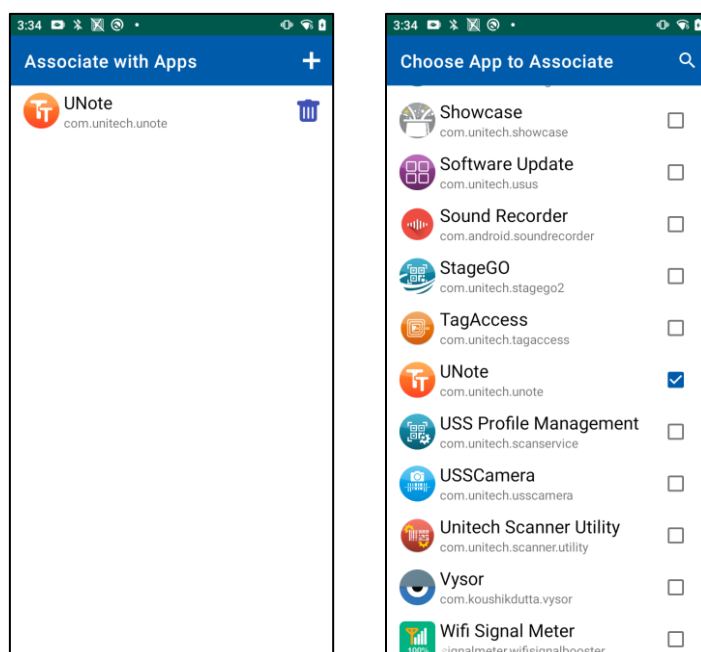


Figure 6.2.3

Finally, the result is that the scanned data in Unote application and Google Browser are different.

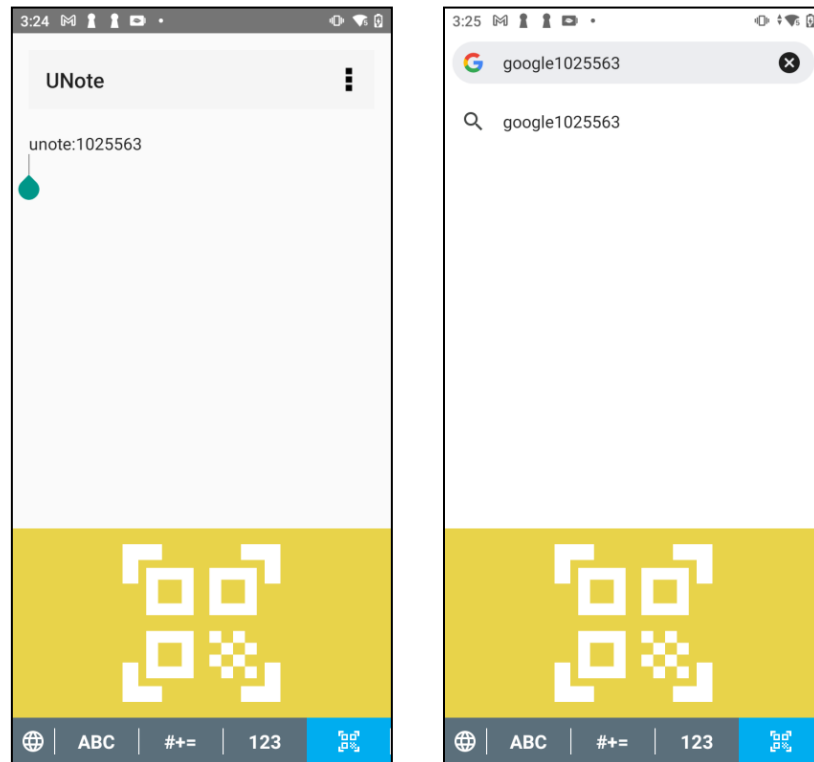


Figure 6.2.4

Note: In this example, it sets “unitech:” as prefix for Unote and “google” as prefix for Google Browser so that the scanned data transforms from “1025563” to “unitech:1025563” and “google1025563”.

6.3 Data Wedge Settings

Data Wedge Settings involves functions when data output as keystrokes. It includes Data Ack indicator, sound, sound frequency, vibration, intents and so on.

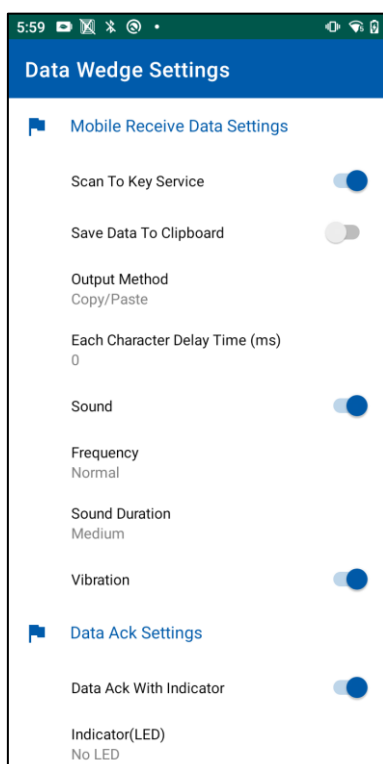


Figure 6.3.1

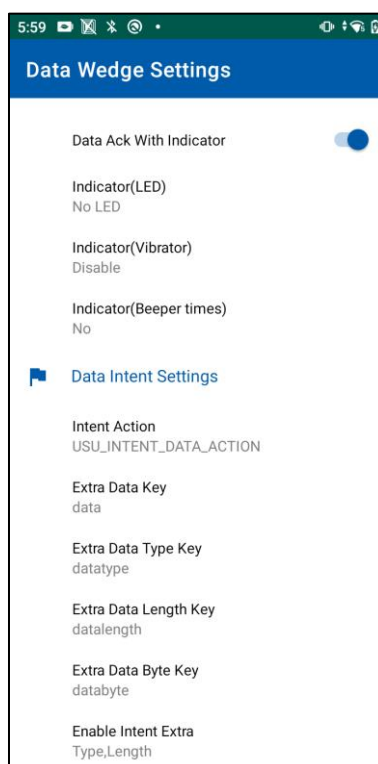


Figure 6.3.2

Setting Item	Description
Scan To Key Service	User can output scanned data as keystrokes
Save Data To Clipboard	User can store scanned data to clipboard for further using.
Output Method	“Copy/Paste” or “Key Emulation” to output scanned data.
Each Character Delay Time	Only works when “Key Emulation” is selected. To set time interval among each character
Sound	To turn on/off mobile sound when receiving

	data
Frequency	Change frequency of sound. Options include “Base”, “Normal” and “Sharp”.
Sound Duration	Change duration of sound. Options include “Shor”, “Medium” and “Long”.
Vibration	To turn on/off vibration when receiving data

Table 6.3.1 Mobile Receive Data Settings

Setting Item	Description
Data Ack with Indicator	To turn on/off scanner indicator when receiving data
Indicator (LED)	Change LED color of scanner. Options include “No LED”, “Red LED”, “Green LED” and “Blue LED”.
Indicator (Vibrator)	To turn on/off vibration indicator
Indicator (Beeper times)	Change times of beep sound. Options include “No”, “1 time”, “2 times” and “3 times”

Table 6.3.2 Data Ack Settings

Setting Item	Description
Intent Action	Action name of intent
Extra Data Key	Intent key for scanned data
Extra Data Type Key	Intent key for scanner data type
Extra Data Length Key	Intent key for scanned data length
Extra Data Byte Key	Intent key for scanned data byte
Enable Intent Extra	To enable/disable data type, length and byte

Table 6.3.3 Data Intent Settings

6.4 Label Formatting

User can customize the barcode output form at this part.

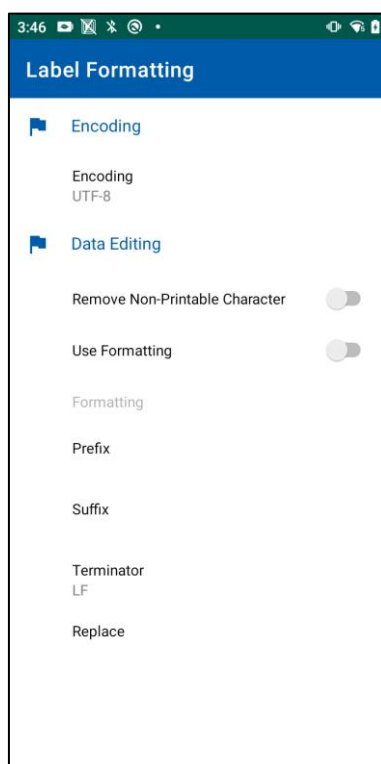


Figure 6.4.1

Setting Item	Description
Encoding	Four options include UTF-8, GBK, BIG5 and Shift_JIS.
Remove Non-Printable Character	User can eliminate non-printable character in outputted barcode data.
Use Formatting	To select label formatting rule by “Formatting” or “Prefix, Suffix, Terminator and Replace”.
Formatting	To configure label formatting rule in advanced method.
Prefix	To add string in the head of scanned data.
Suffix	To add string in the end of scanned data.
Terminator	To add special character in the end of scanned

	data. E.g., CR/LF or Tab
Replace	To replace the specified string in scanned data.

Table 6.4.1

6.4.1 Formatting (Advanced Data Editing)

By “Formatting”, user can configure as regular expressions and works on specific barcode type. It supports “replace Regex”, “Input”, “Switch”, and “Replace”. User can set one specific rule applied at each code type.

(1) How to create Formatting rule :

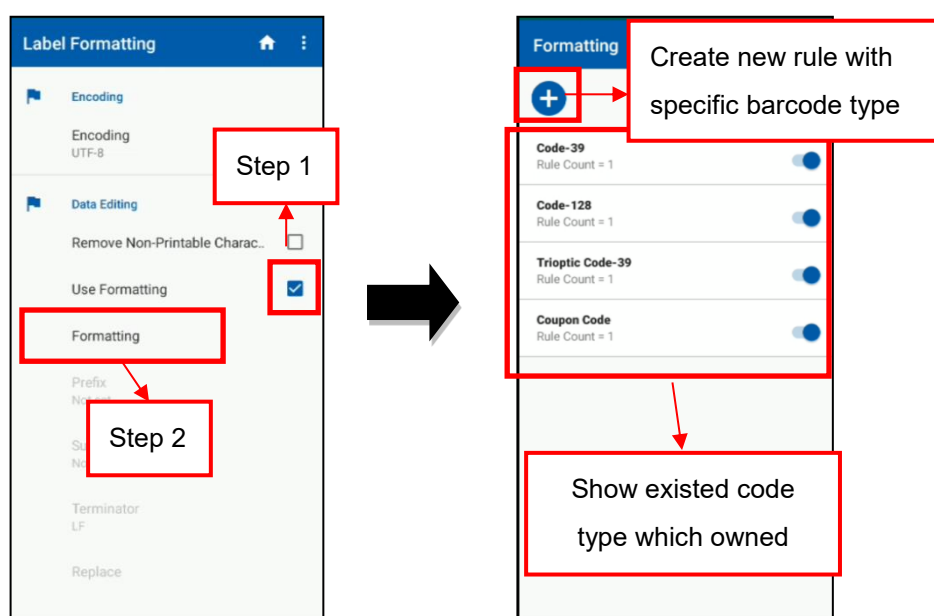


Figure 6.4.1.1

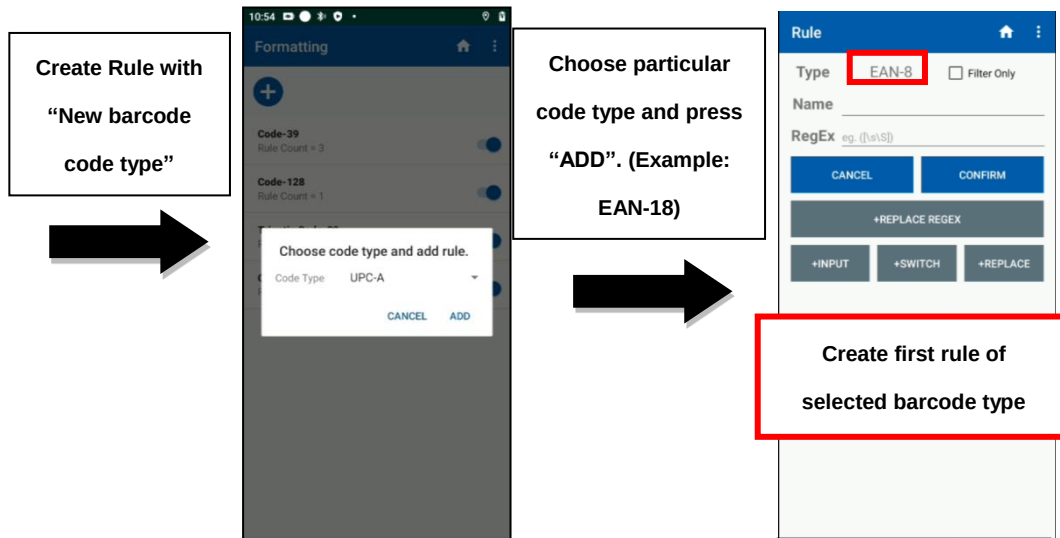


Figure 6.4.1.2

(2) How to edit Formatting rule:

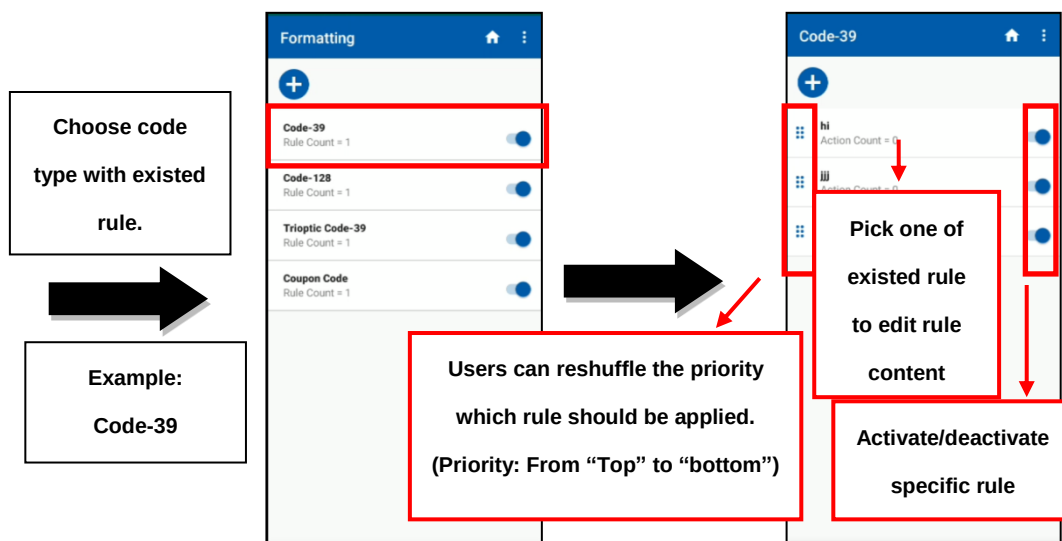


Figure 6.4.1.3

(3) How to delete Formatting rule

i. Delete Exist Barcode Type:

Note: If the chosen barcode type is deleted, the rules under chosen barcode type would all be deleted too.

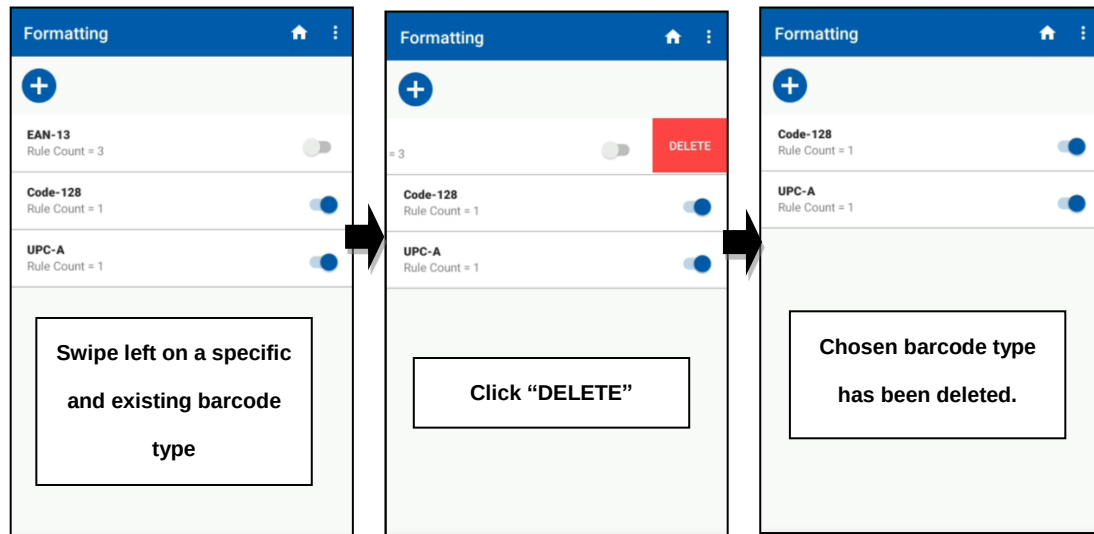


Figure 6.4.1.4

- ii. Delete Exist Rule under Barcode Type
(Example: Rules under EAN-13 barcode type)

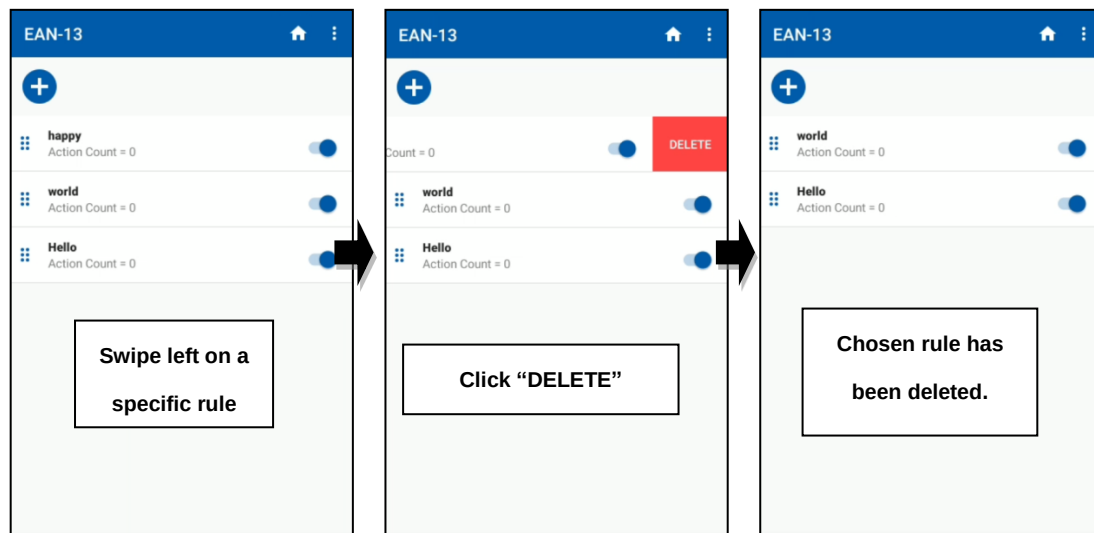


Figure 6.4.1.5

Note: If user switched on “Use formatting”, “Prefix”, “Suffix”, “Terminator” and “Replace” would not be applied. These four functions are introduced in session 6.4.2.

After choose one specific barcode type, USU jumps to “Rule page” which supports user to set detail action for the barcode. In “Rule page” as shown in Figure 6.4.1.6, user needs to type in the “Name” and “RegEx” text input.

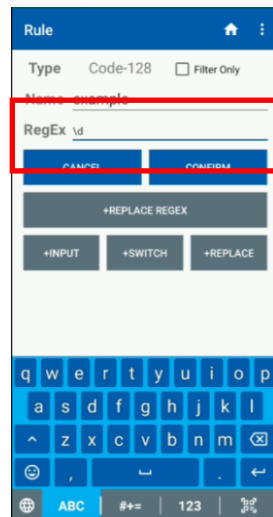


Figure 6.4.1.6

If “Filter only” is not checked, user can obtain the result that manipulated through Regex as show in Figure 6.4.1.7.

Input Data: Unitech128

Regex: \d

Result with label formatting: 128

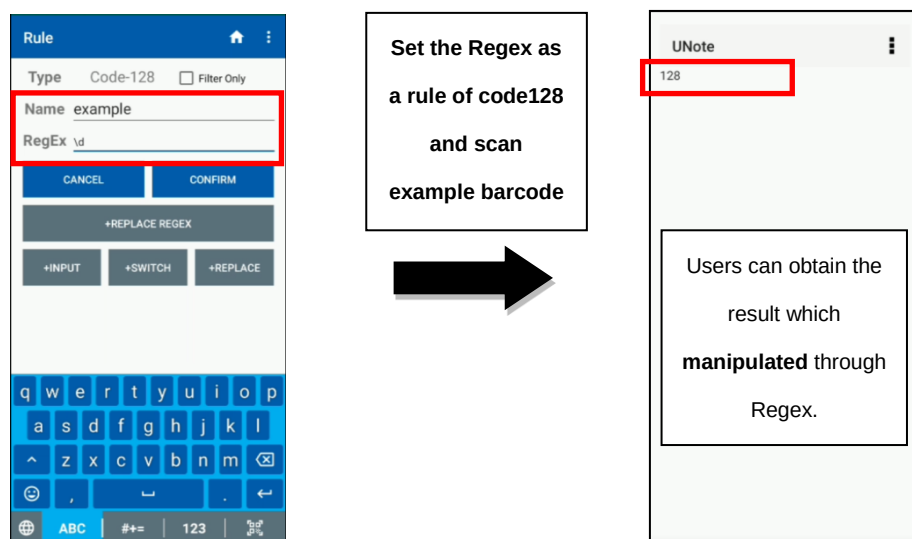


Figure 6.4.1.7

If user **checks** the “Filter only” function, user can add “Replace RegEx”, “Input”, “Switch” and “Replace”.

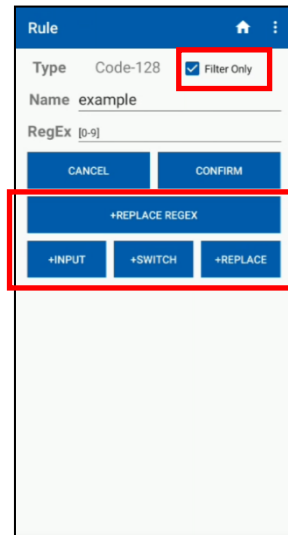


Figure 6.4.1.8

(1) Replace Regex:

User can fill in the desired content to replace the data in the area that meets the normal equation in the scanned barcode.

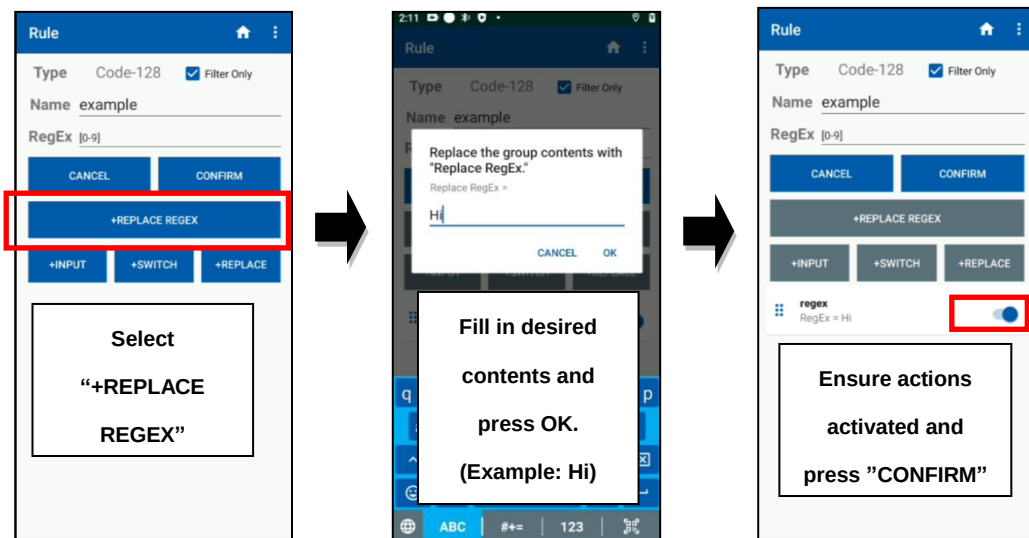


Figure 6.4.1.9

At this example, because "128" in "Unitech128" (as our example barcode) matches RegEx rule "[0-9]" so that the result be changed according to the content of "+REPLACE REGEX" we set as shown in Figure 6.3.1.11. (At this example: "128" should be changed into 3 times of "Hi because three characters "1", "2" and "8")

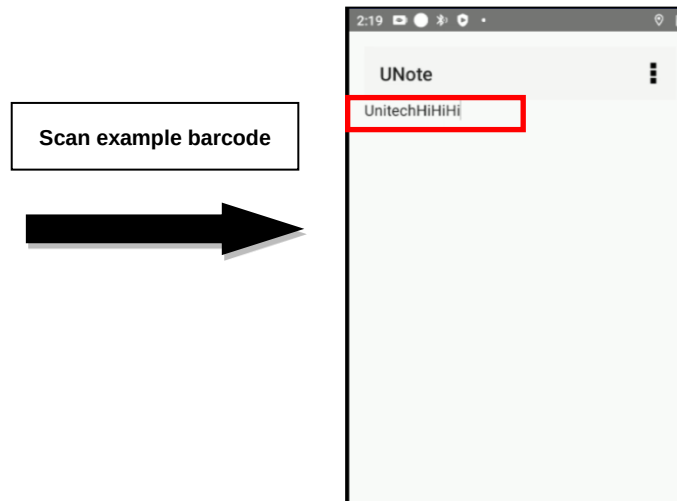


Figure 6.4.1.10

Note: If user uses the function of "+REPLACE REGEX", users will not allow doing "+INPUT", "+SWITCH", or "REPLACE"

(2) Input:

User can set specific Index and desired input data content as a rule which would be applied when data format of scanned barcode matches with original Regex.

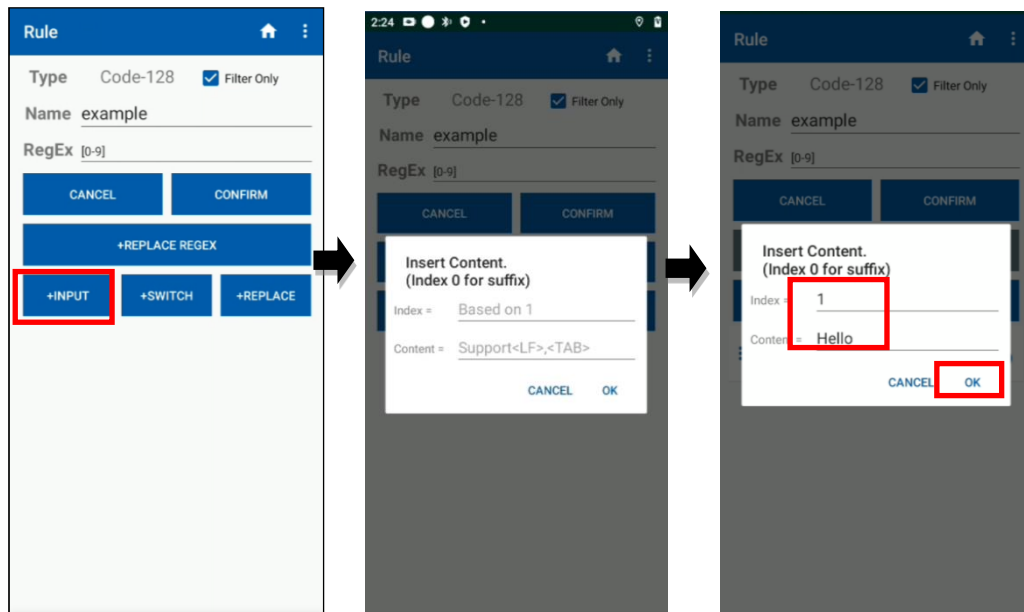


Figure 6.4.1.11

At this example, because Unitech Scanner Utility define first position of data is “1”, we can set Index as 1 and desired content is “Hello ” to achieve result which should be “Hello Unitech128”. (**Note:** We set a space after “Hello”)

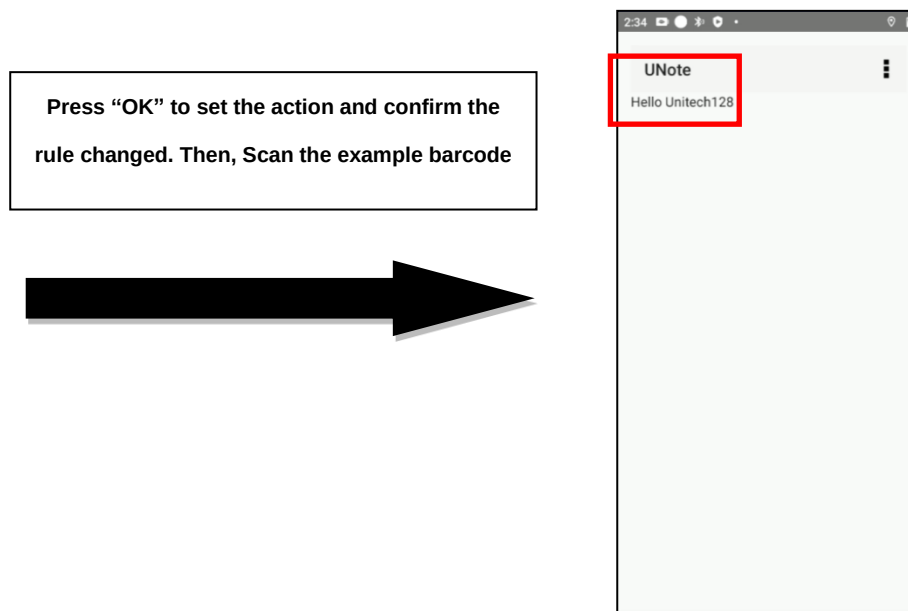


Figure 6.4.1.12

(3) Switch:

User can set specific Index and data length, and actions as “Lowercase” or “Uppercase”. The rule would be applied when data format of scanned barcode match with original Regex. At “Switch” part, “Lowercase” means the all data of scanned barcode located at users’ designed Index and length would transform into lowercase, and vice versa

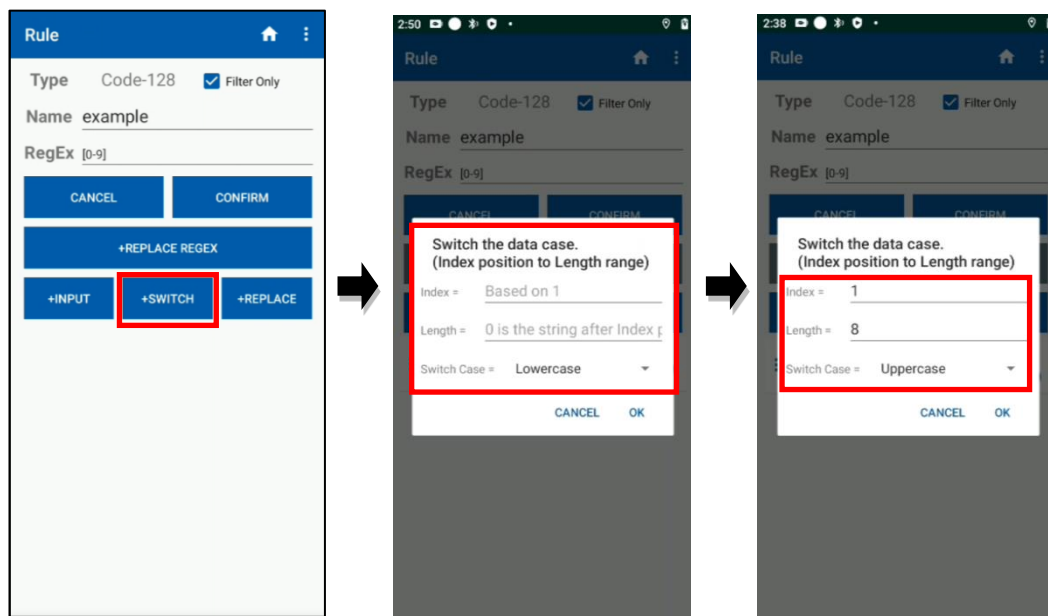


Figure 6.4.1.13

At this example, if user wants to transform “Unitech128” into “UNITECH128”, we can set Index as “1”, Length as “8”, and choose Switch case to “Uppercase”. Finally, click “OK” and confirmed the changed rule. The scanned result of example barcode should turn into “UNITECH128”.

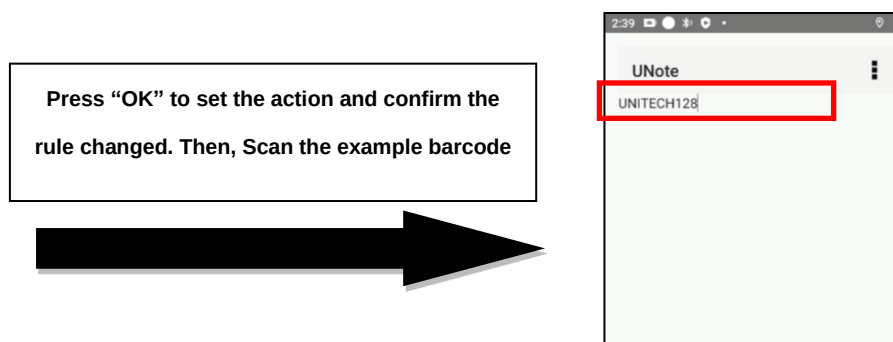


Figure 6.4.1.14

(4) Replace:

Through setting index, length of data, and content, users can replace particular field in scanned barcode data with the desired content.

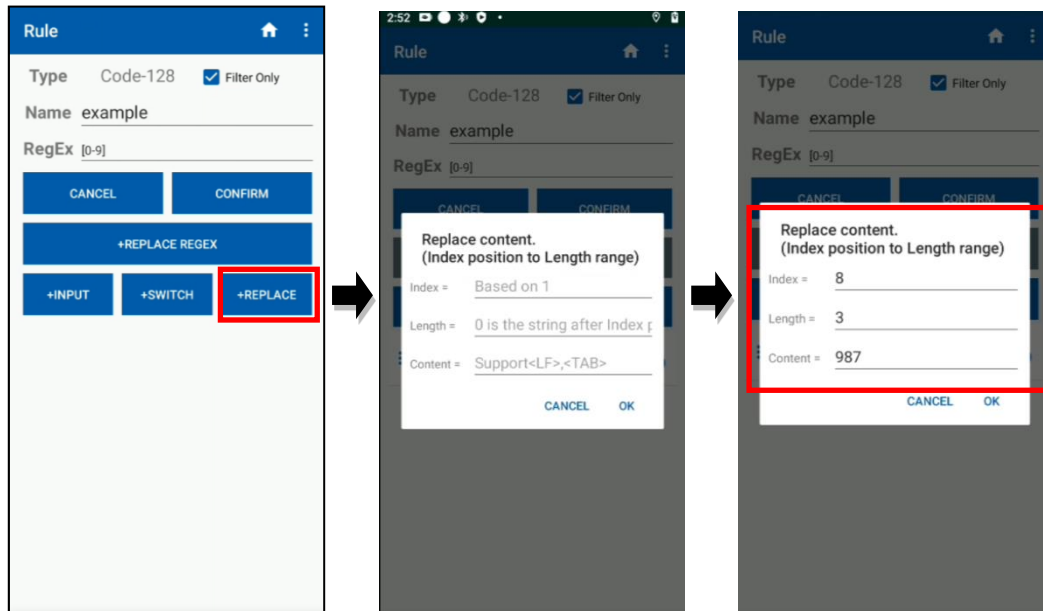


Figure 6.4.1.15

At this example, If user wants to change “123” in “Unitech128” into “987”, user can set index as “8”, length as “3”, and the content as ”987”. After pressing “OK” and “CONFIRM”, users can obtain their designed result when they scan the example barcode.

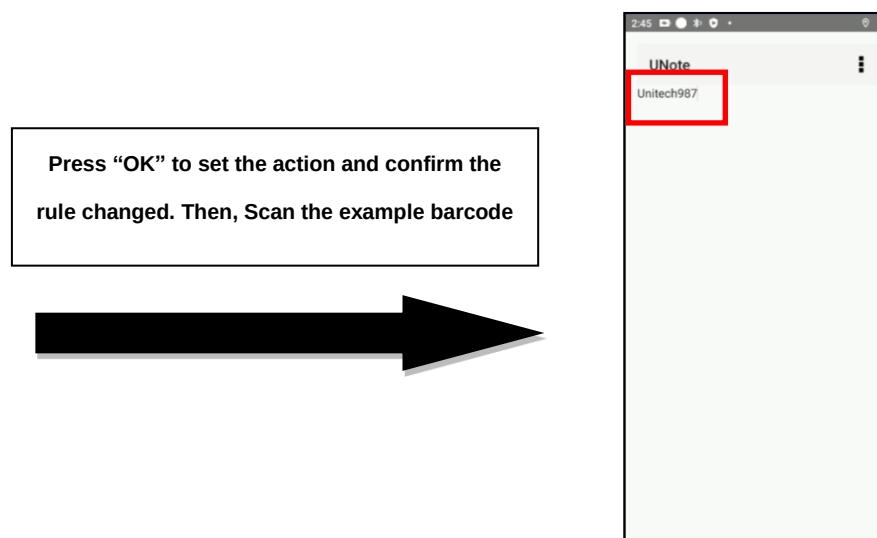


Figure 6.4.1.16

6.4.2 Formatting (Basic Data Editing)

Without activating “Use formatting” function which is introduced in session 6.4.1, user can easily set “Prefix”, “Suffix”, “Terminator” and “Replace” for data editing as shown in Figure 6.4.1.

1. Prefix & Suffix:

To add a specific string in the head or end of the scanned data.

2. Terminator:

It includes “None/Null”, “CR”, “LF”, “CRLF”, and “TAB” are provided for users to set their designed terminator of scanned data.

3. Replace:

User can achieve data replacement by enter specific data content in scanned barcode data and replacement content.

Chapter 7 – Application Settings

User can go to Application Settings by tapping Menu → Application Settings.

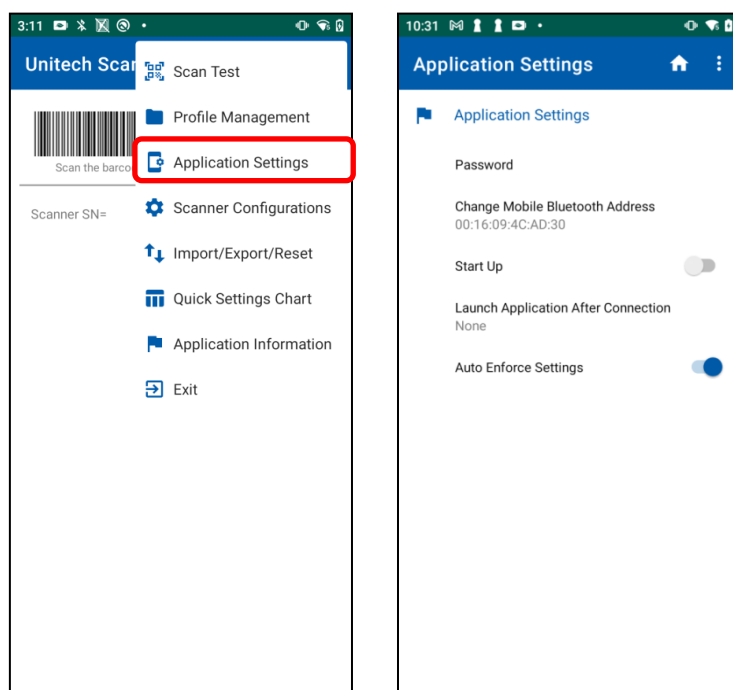


Figure 7.3.1

Setting Item	Description
Password	For admin to add password to prevent from user with no authority changing the settings
Change Mobile Bluetooth Address	It must configure as BT MAC address of the Android device. Otherwise, Unitech Scanner cannot pair successfully.
Start up	Enable to make USU automatically run after booting an Android device.
Launch Application After Connection	Launch the specific application after USU pairs a Unitech Scanner successfully.
Auto Enforce Settings	Enable to auto import configure file when pairing successfully.

Table 7.3.1

Chapter 8 – Scanner Configurations

USU allows users to configure the settings of scanner symbology by tapping menu → Scanner Configurations.

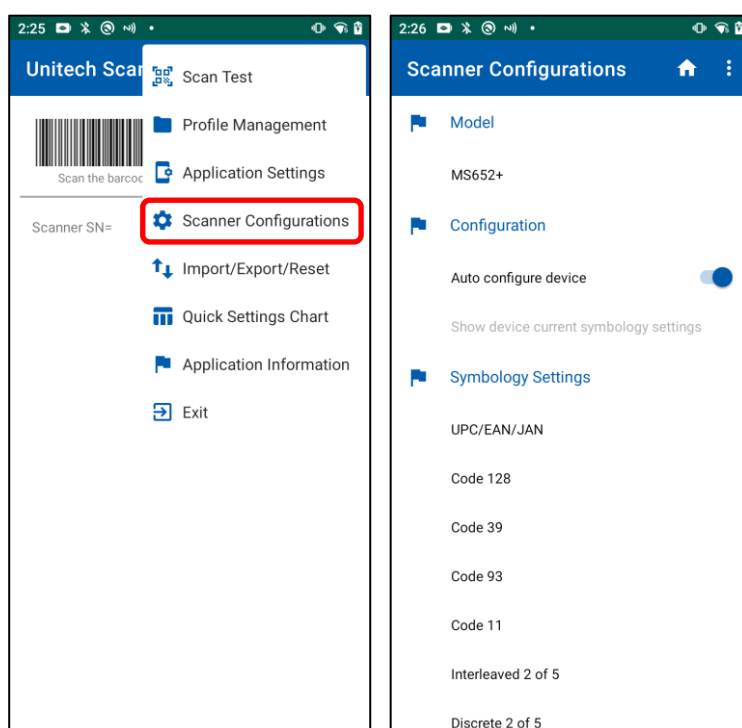
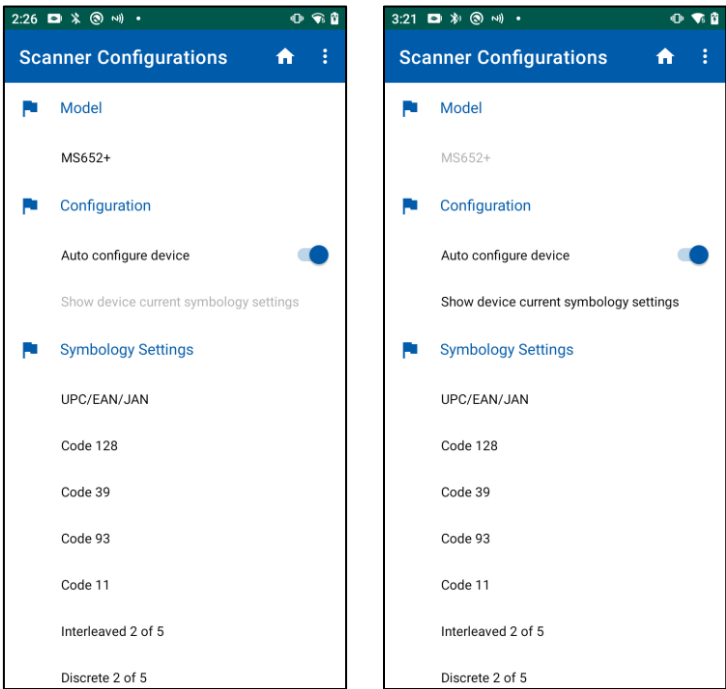


Figure 8.1

Setting Item	Description
Model	Model name of Unitech Scanner
Configuration	“Auto configure device” helps to configure when a scanner is connected.
Symbology Settings	To configure settings of supported symbology
Other Settings	Advanced scanner settings, trigger, exposure and so on.

Table 8.1



Figur 8.2

Note: “Show device current symbology settings” is unclickable when no scanner is paired with the Android Device.

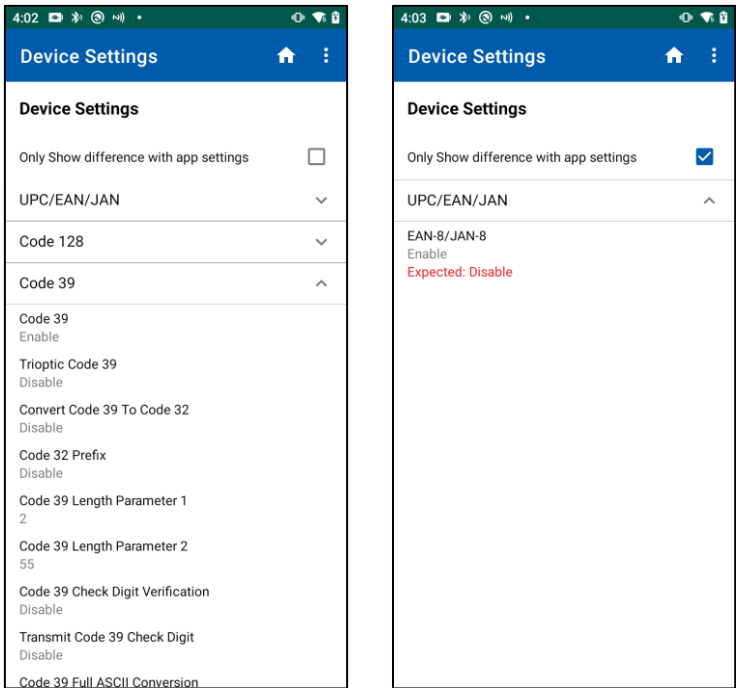


Figure 8.3

After a scanner is paired, user can check the current symbology settings of the scanner. Besides, there are two features in this function:

1. Extend all settings by clicking the arrow icon as shown in left screenshot in Figure 8.3.
2. Check “only show difference with app settings” to only list the different item as shown in right screenshot in Figure 8.3.

There are two kinds of settings (“Symbology Settings” and “Other Settings”) for user to adjust the scanner configuration.

At “**Symbology Settings**”, the following barcode parameters are supported:

1. UPC/EAN/JAN
2. Code 128
3. Code 39
4. Code 93
5. Code 11
6. Interleaved 2 of 5
7. Discrete 2 of 5
8. Codabar
9. MSI
10. Chinese 2 of 5
11. Matrix 2 of 5
12. Inverse 1D
13. GS1 Databar
14. Composite
15. 2D Symbologies
16. Postal Codes

At “**Other Settings**”, the following setting options are supported::

A. Trigger Settings

1. Pick List Mode
2. Trigger Modes
3. Decode Session Timeout
4. Security Level

B. Exposure Settings

1. Low Light Motion Detection Assist

C. Other Settings

1. Transmit Code ID Character
2. Transmit No Read Message
3. BT Signal Checking Level

Chapter 9 – Export / Import / Reset

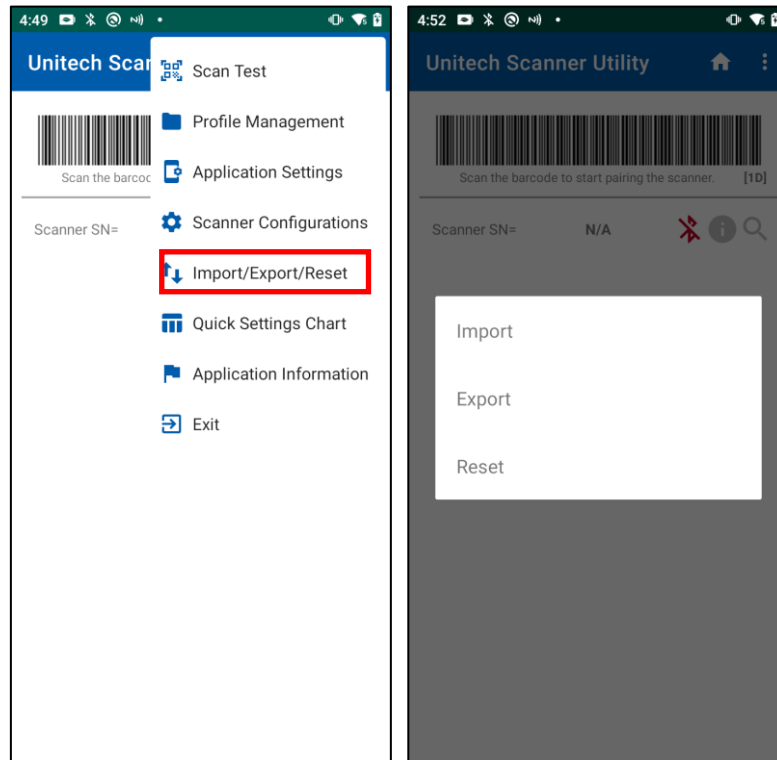


Figure 9.1

The settings of “Scanner Configuration” and “Application Settings” can be exported as configuration file. This file can be saved to administrator’s PC or other Android devices and can be imported back again in USU.

1. **Import:** To import the configuration file from Unitech folder. (/sdcard//Unitech/USU/USU.conf)
2. **Export:** To export the current configuration of USU to Unitech folder. (/sdcard//Unitech/USU/USU.conf)
3. **Reset:** To configure USU to default setting.

Chapter 10 – Quick Settings Chart

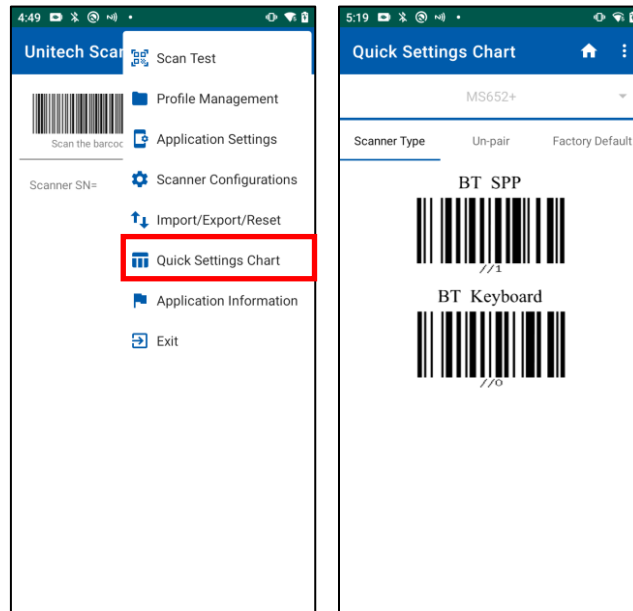


Figure 10.1

Quick Settings Chart helps user to configure the paired scanner by scanning barcode. There are three types of barcode: “Scanner Type”, “Un-pair” and “Factory Default”.

1. Scanner Type:

User can use the connected scanner to scan “BT SPP” barcode or “BT Keyboard (HID)” barcode to change the operation mode.

2. Un-Pair:

User can disconnect the connected scanner with USU by scanning “BT/BLE Un-Pair/Pair” barcode.

3. Factory Default:

User can reset all configuration stored in the connected scanner to factory default and it disconnects to USU in the same time.

Chapter 11 – Unitech SU Keyboard

Unitech SU Keyboard is an enterprise keyboard that provides a variety keyboard functions in USU. It offers a more comfortable typing experience with Letters, Numbers, Symbols, Emoji and the on-screen Scan button. SU Keyboard also supports outputting double-byte characters encoded as UTF-8, BIG5, GBK, and Shift_JIS.



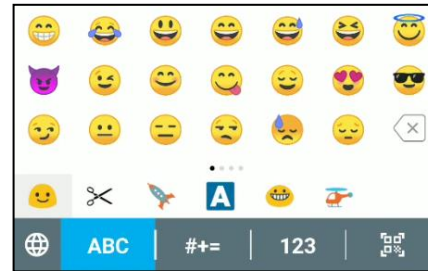
Letters



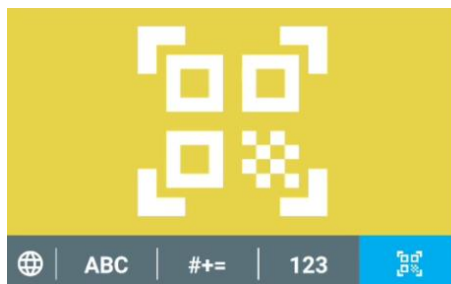
Symbols



Numbers



Emoji



On-screen Scan Button

Note: On some Android device models, SU Keyboard may not be set as the default virtual keyboard. User needs to configure the devices manually to set SU Keyboard as the default.