




ATID Co.,Ltd

ATID Reader SE Demo Guide for Android

Android Demo Guide Manual

ENG Team

2023-10-16


		ATID Reader SE Demo Guide for Android					
All That Identification		Android Demo Guide Manual				Company	ATID Co.,Ltd
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

Revised History

Version	Date of revision	Reason for Revision ¹	Revised Content ²	Writer
v1.0	2019-08-06	First Draft		ENG Team
v1.1	2022-11-11	Revised	6B and Rail tag Inventory support	ENG Team
v1.2	2023-10-16	Revised	Bug fix and target API update to 33	ENG Team

¹Reason for revision : This section explains whether the new content is the addition, revision, or removal of the original document


²Revised content : Description on revised contents and the revised pages

		ATID Reader SE Demo Guide for Android					
All That Identification		Android Demo Guide Manual				Company	ATID Co.,Ltd
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

Content

Content	3
1. Overview	5
2. Device Management	6
2.1. About	7
2.2. Register a New Device	8
2.2.1. How to register a new device for Bluetooth	9
2.2.1. How to register a new device for USB	11
2.2.2. How to register a new device for BLE	13
2.3. Remove a Registered Device	15
2.4. Connect Device	16
2.4.1. How to connect devices for Bluetooth	16
2.4.2. How to connect devices for USB	18
2.4.3. How to connect devices for BLE	21
2.4.4. How to connect your device and go to the demo screen	23
2.5. Disconnect Device	25
2.6. How to charging the phone for USB	27
3. Demo	28
3.1. Demo Menu	29
3.2. Inventory	31
3.2.1. Screen Composition	31
3.2.2. How to change RFID options	33
3.2.3. How to RFID inventories and reading barcode	71
3.2.4. How to reading Key Event	74
3.2.5. How to read barcode and write them to tags	76
3.2.6. How to change barcode options	82
3.2.7. How to save data to file	94
3.3. Selection Mask	98
3.3.1. Tag Memory	98
3.3.2. Tag Query	99
3.3.3. Screen Composition	101
3.3.4. Selection Mask Detail Screen Composition	102
3.3.5. How to set a selection mask	109
3.3.6. How to disable selection mask	113
3.4. Stored Data	114

3.4.1.	Screen Composition	114
3.4.2.	How to load stored data	116
3.4.3.	How to remove all stored data	118
3.5.	Access Memory.....	120
3.5.1.	Read Memory	120
3.5.2.	Write Memory.....	127
3.5.3.	Lock Memory	134
3.6.	Search RFID Tag	145
3.6.1.	Screen Composition	145
3.6.2.	How to search RFID tag	146
3.7.	Device Options	149
3.7.1.	Screen Composition	149
3.7.2.	How to change device options	150

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

1. Overview

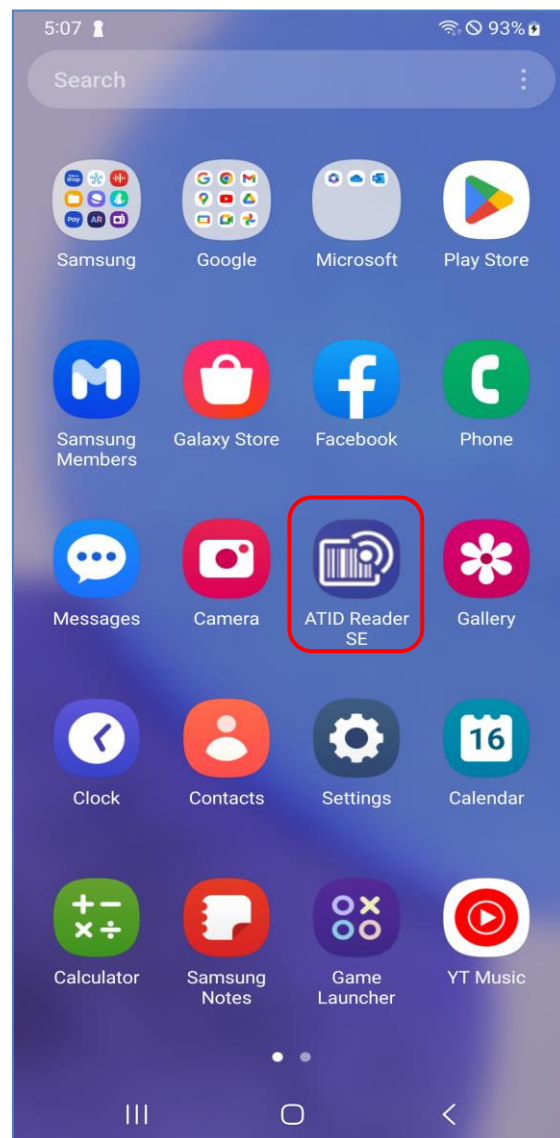
The purpose of this document is to describe how to use ATID Reader SE Demo.


ATID Reader SE Demo is made to test all the functions of ATID's external accessory device.

Recommended Android OS version is above Android-6.

Currently, ATID Reader SE Demo is supported by AT188N, AT188NP, AT388, ATS100, ATS200 and ATD100.

* **Note:** ATD100 has no Barcode function.



		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

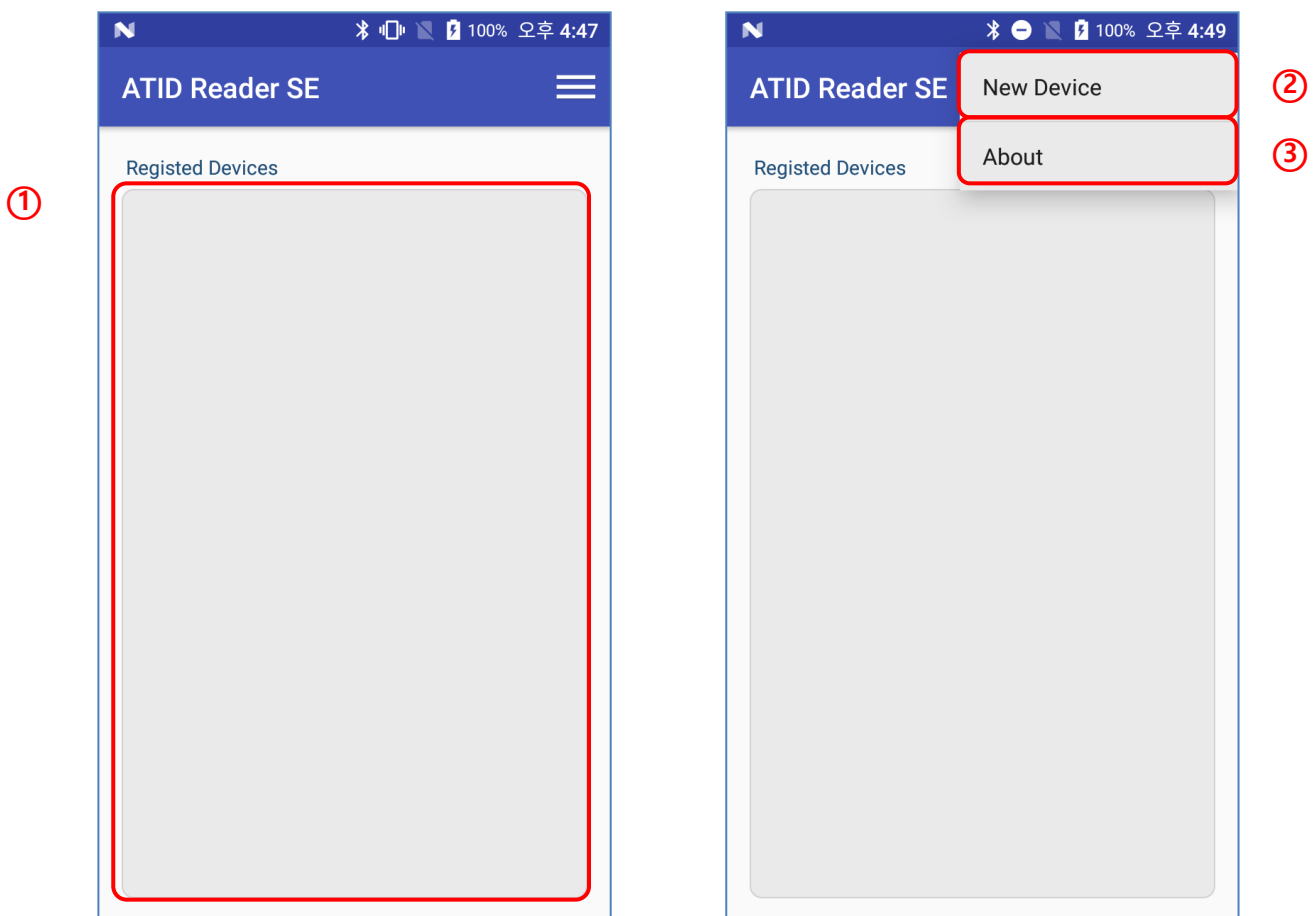
2. Device Management

Upon turning on ATID Reader SE Demo, the device setting screen is first to pop up. You are able to manage various devices with ATID Reader SE Demo.


With ATID Reader SE Demo screen, you are able to link and remove devices for Demo trial.

In other words, this function works to manage connections of various devices.

The figure below shows the ATID Reader SE Demo running and a description of each part.



- ① **Device List:** List of all the devices that are being managed.
- ② **New Device :** Add new equipment.
Touch to move to the device registration screen.
- ③ **About :** Displays the version of ATID Reader SE Demo App.


		ATID Reader SE Demo Guide for Android					
All That Identification		Android Demo Guide Manual				Company	ATID Co.,Ltd
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

2.1. About

Displays the version of ATID Reader SE Demo App.

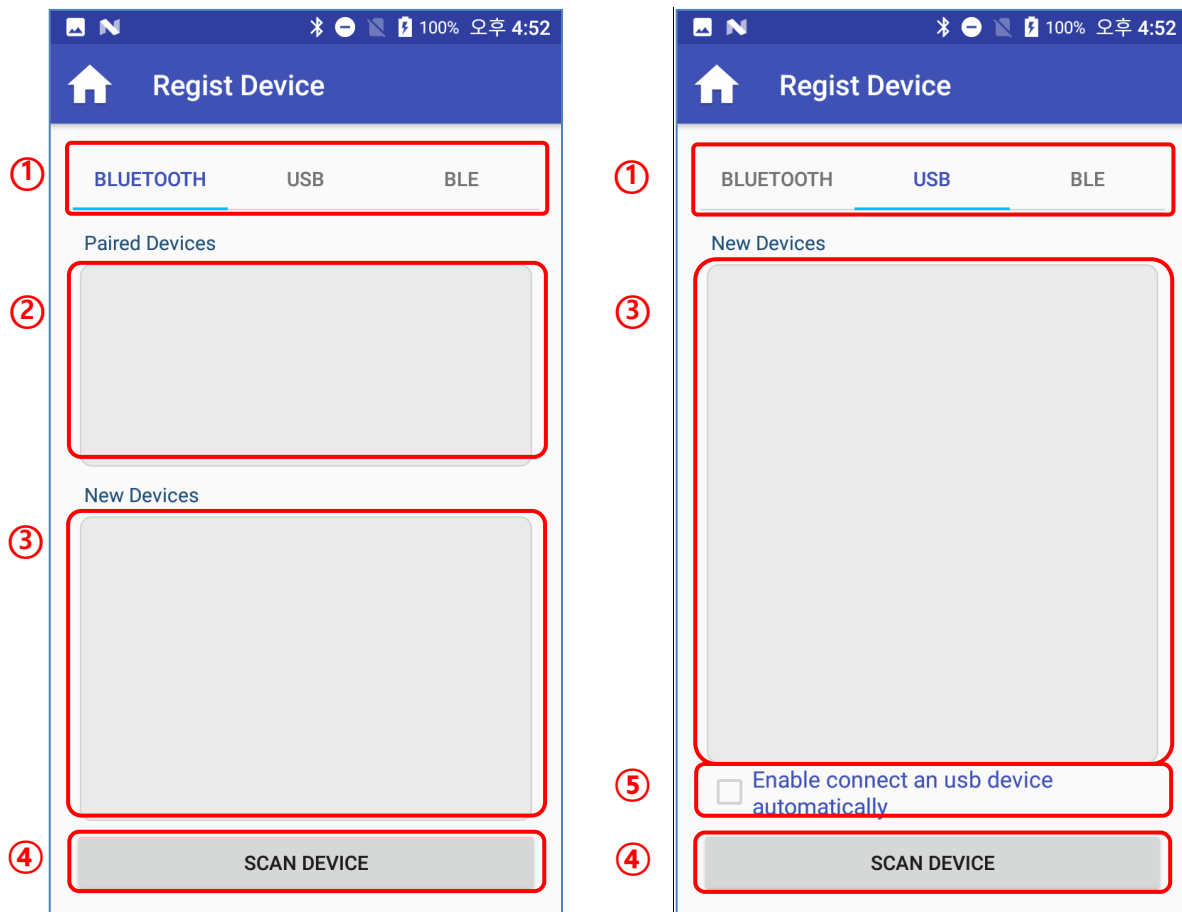


- ① **App Version** : Version of ATID Reader SE Demo App


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual		Company		ATID Co.,Ltd			
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

2.2. Register a New Device

The following figure shows the device registration screen.



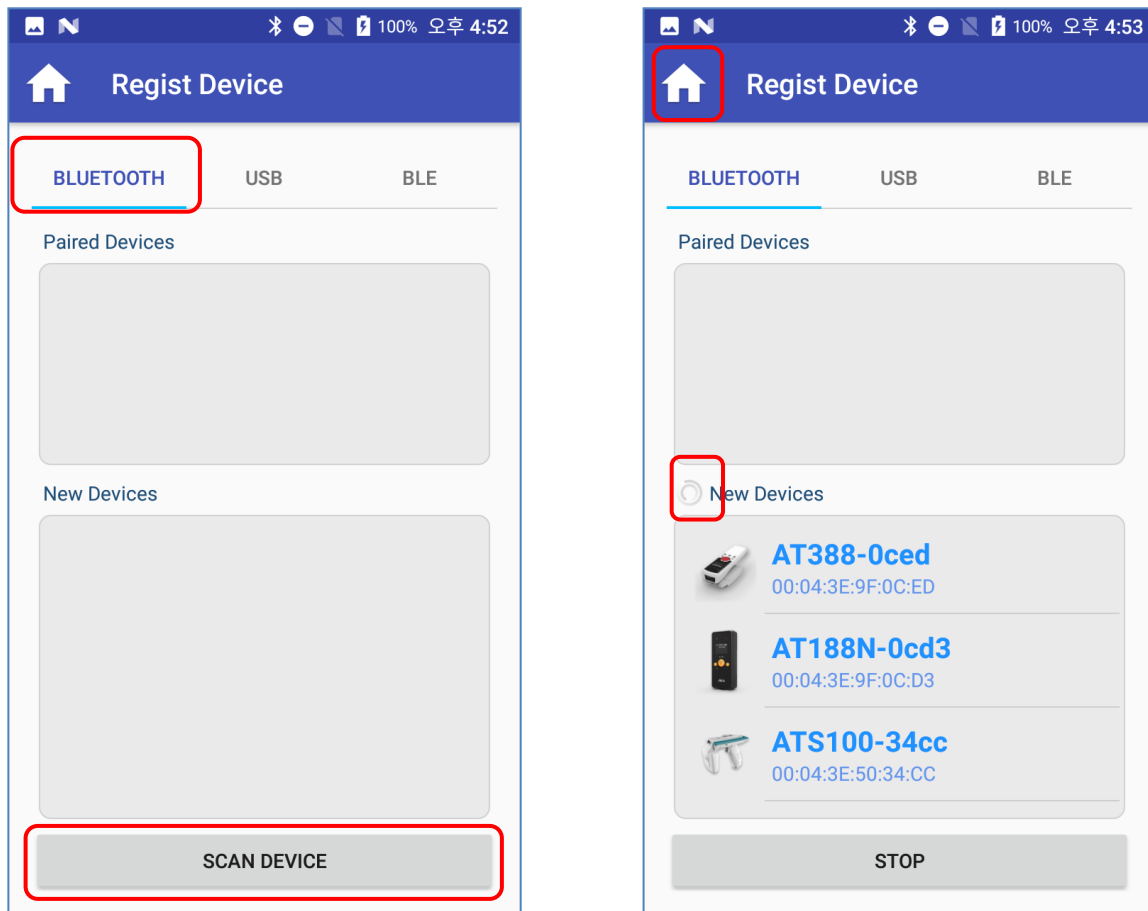
- ① **Interface Type** : Select the device Interface (Bluetooth or USB) for registration.
- ② **Paired Devices(Registered Devices)** : Displays the paired Bluetooth device.
- ③ **New Devices** : Touch the "Scan Device" button to display newly registered Bluetooth, USB, or BLE devices.
- ④ **Scan Device** : Start searching new Bluetooth/USB devices.
When the searching begins, it changes to "Stop" button; You can press "Stop" button to stop the search.
- ⑤ **USB Connect Mode** : You can choose to automatically connect to the device once USB cable is connected.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

2.2.1. How to register a new device for Bluetooth

Select Interface Type as Bluetooth.


Touch the "Scan Device" button to start the device search.

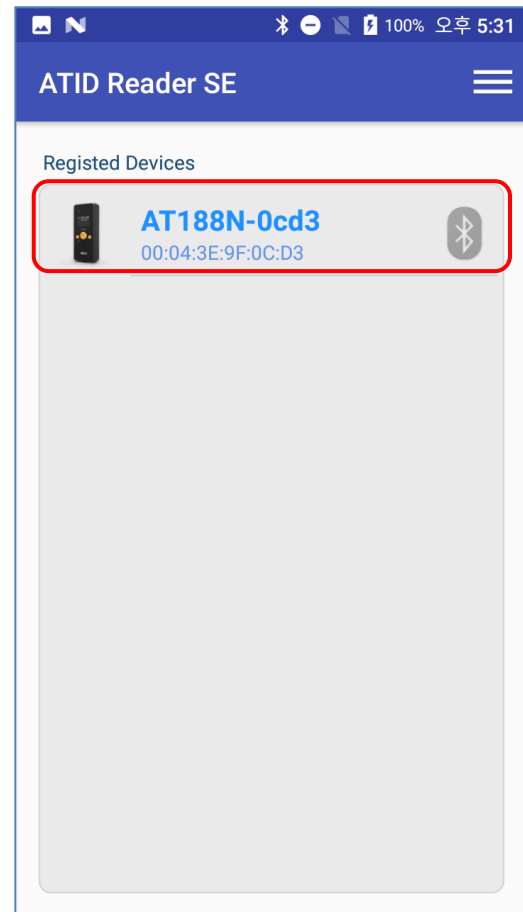
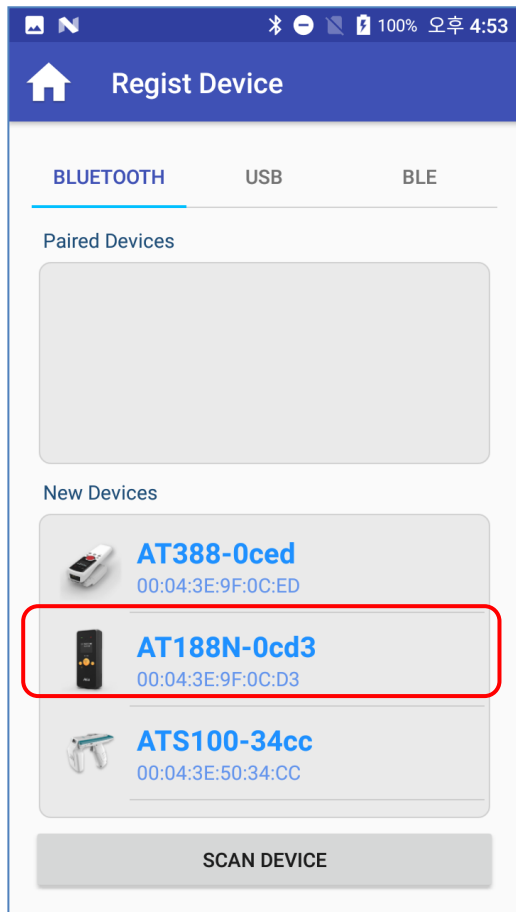


If the device search is under operation, "Progress" sign pops on the left of "New Devices" list.

If the device desired for registration is searched out, press "Stop" to finish searching.

If you want to cancel registration, press "Back" button of your smart phone, or touch the icon on the upper-left of the screen. If done so, device registration is canceled, and original device setting screen comes up


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2



If the device you want to connect to is searched, touch on the searched device and it moves to the device setting screen from the device registration screen.

There, the selected device is registered and becomes manageable.

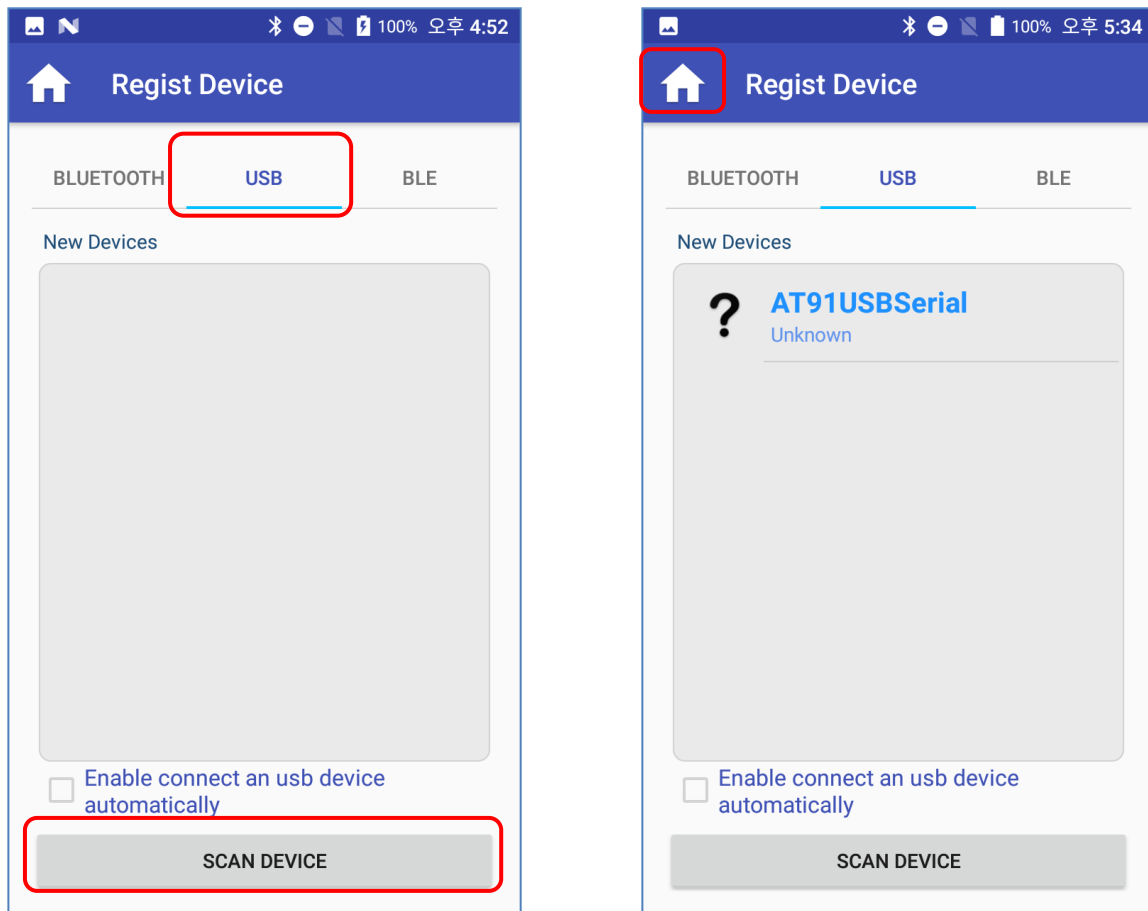
With registration, it will be possible to connect the device and execute various function demonstrations for each device.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

2.2.1. How to register a new device for USB

Select Interface Type as USB.

Touch the "Scan Device" button to start the device search.




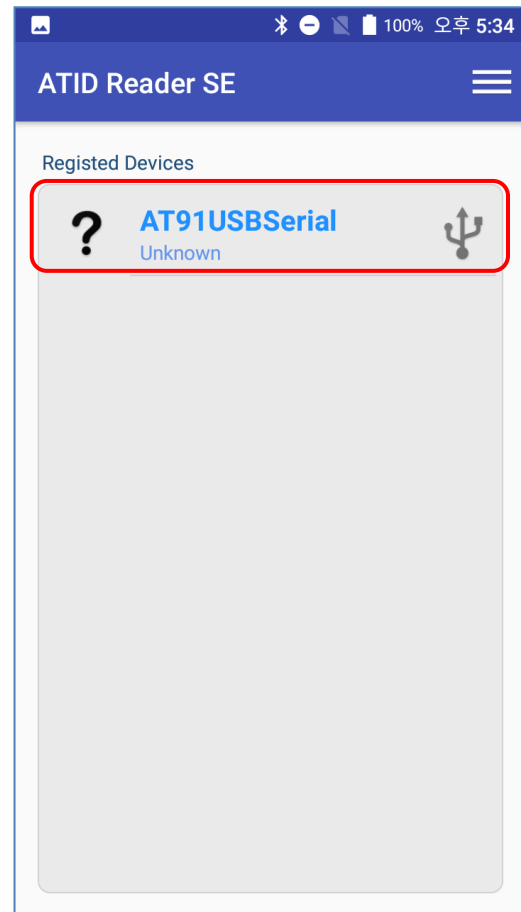
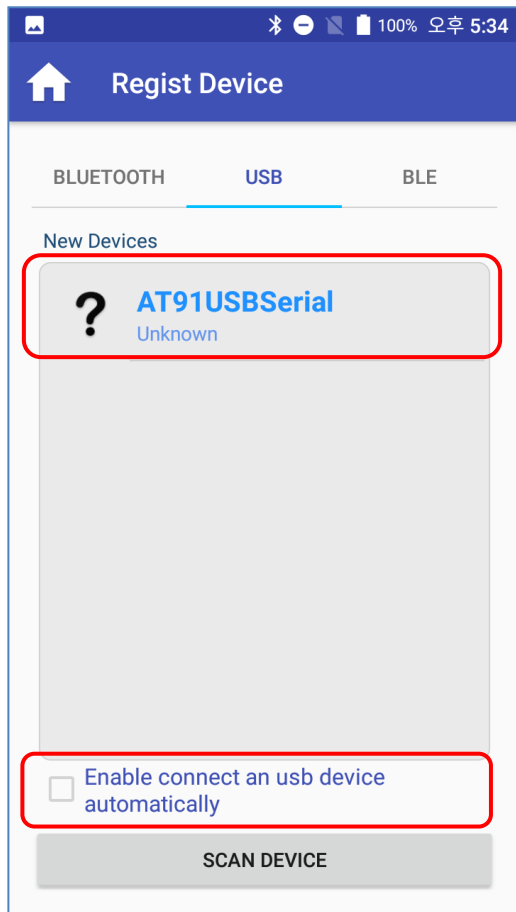
You have to connect the device and the smart phone with USB Cable in order to start the device search.

When the device search starts, a progress message is displayed to the left of the "New Devices" list title, and the "Scan Device" button is changed to the "Stop" button.

If the device you want to register already appeared, press "Stop" to finish the search operation.

If you want to cancel the registration, press the "Back" button on the smart phone or touch the icon on the left of the title at the top of the screen to cancel the device registration and go back to the device setting screen.


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2



If the device you want to connect to is searched, touch the searched device and it moves to the device setting screen from the device registration screen where the selected device is registered and becomes manageable.

Select "Enable connect USB device automatically" if you want to automatically connect USB device by connecting USB device to your smart phone without touching the searched device.

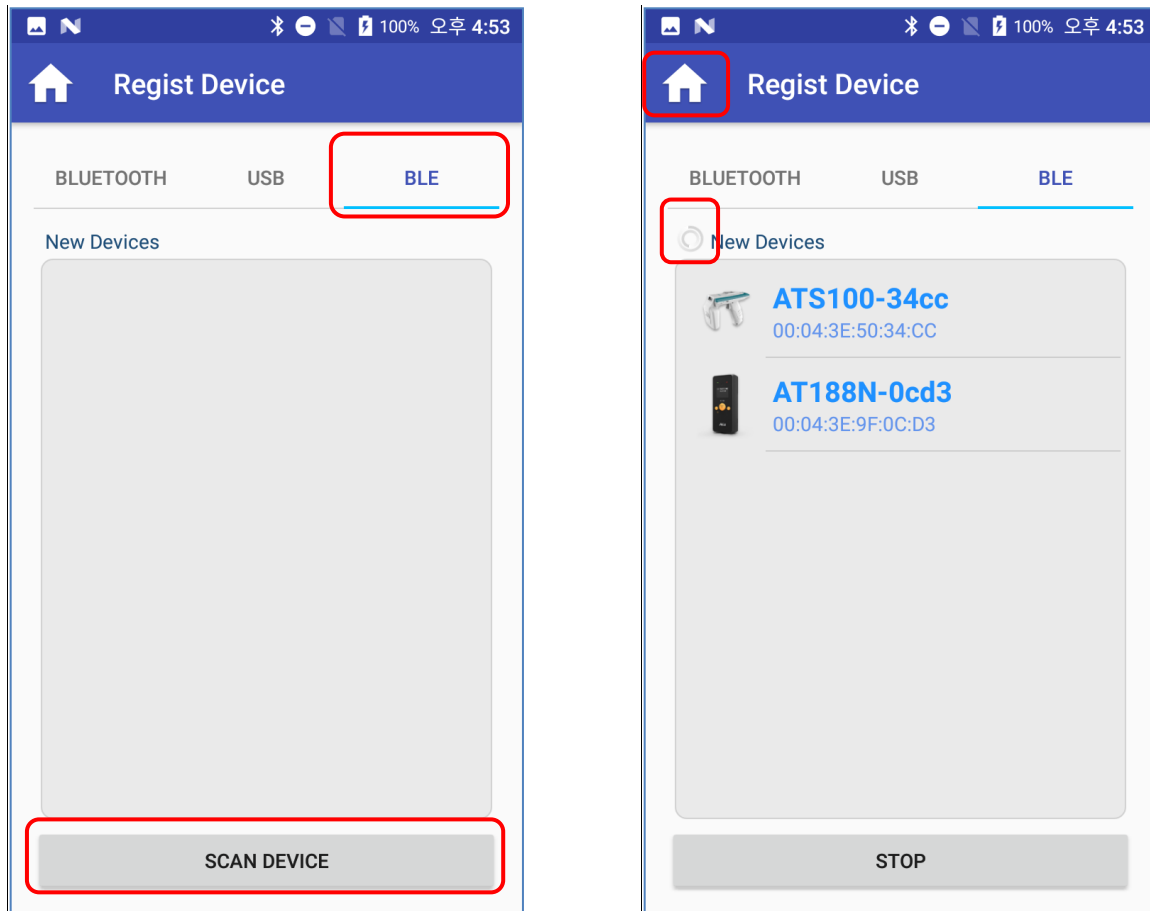
When the device is registered, you can connect the registered device and execute various function demonstrations for each device.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

2.2.2. How to register a new device for BLE

Select Interface Type as BLE.


Touch the "Scan Device" button to start the device search.

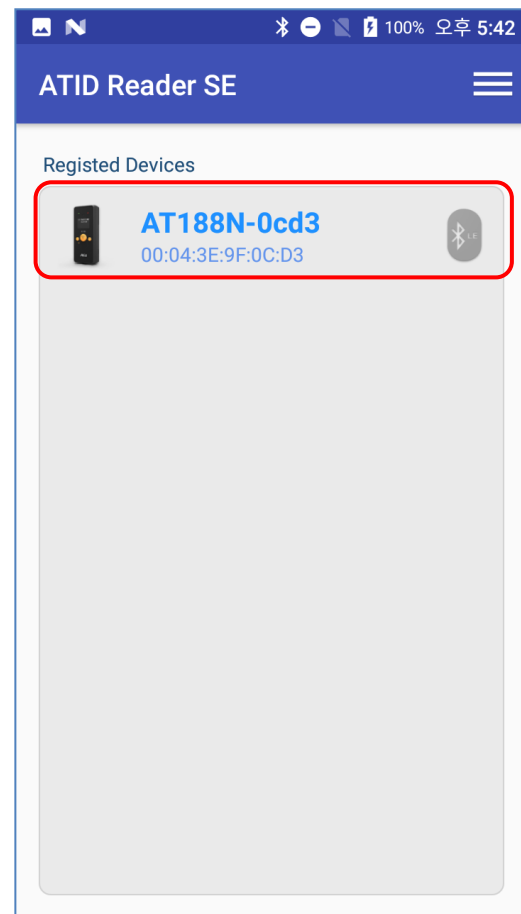
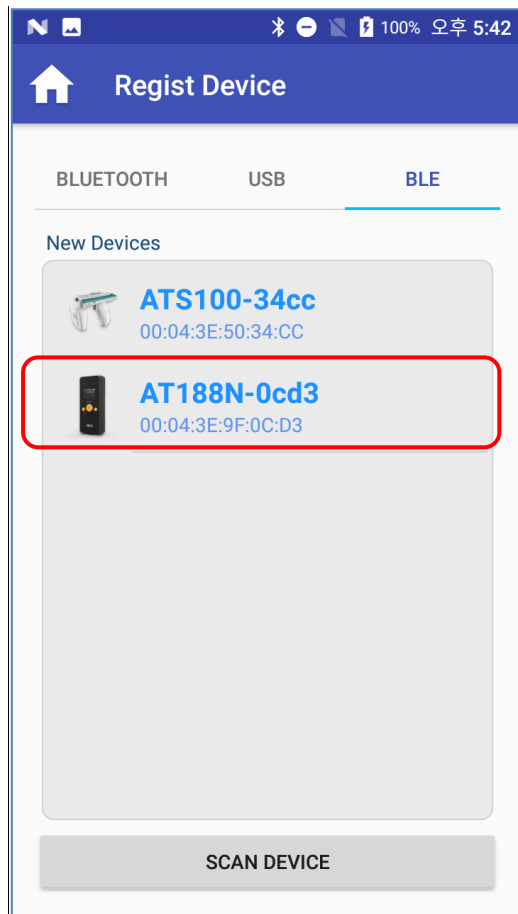


If the device search is under operation, "Progress" sign pops on the left of "New Devices" list.

If the device desired for registration is searched out, press "Stop" to finish searching.

If you want to cancel registration, press "Back" button of your smart phone, or touch the icon on the upper-left of the screen. If done so, device registration is canceled, and original device setting screen comes up.


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2



If the device you want to connect to is searched, touch on the searched device and it moves to the device setting screen from the device registration screen.

There, the selected device is registered and becomes manageable.

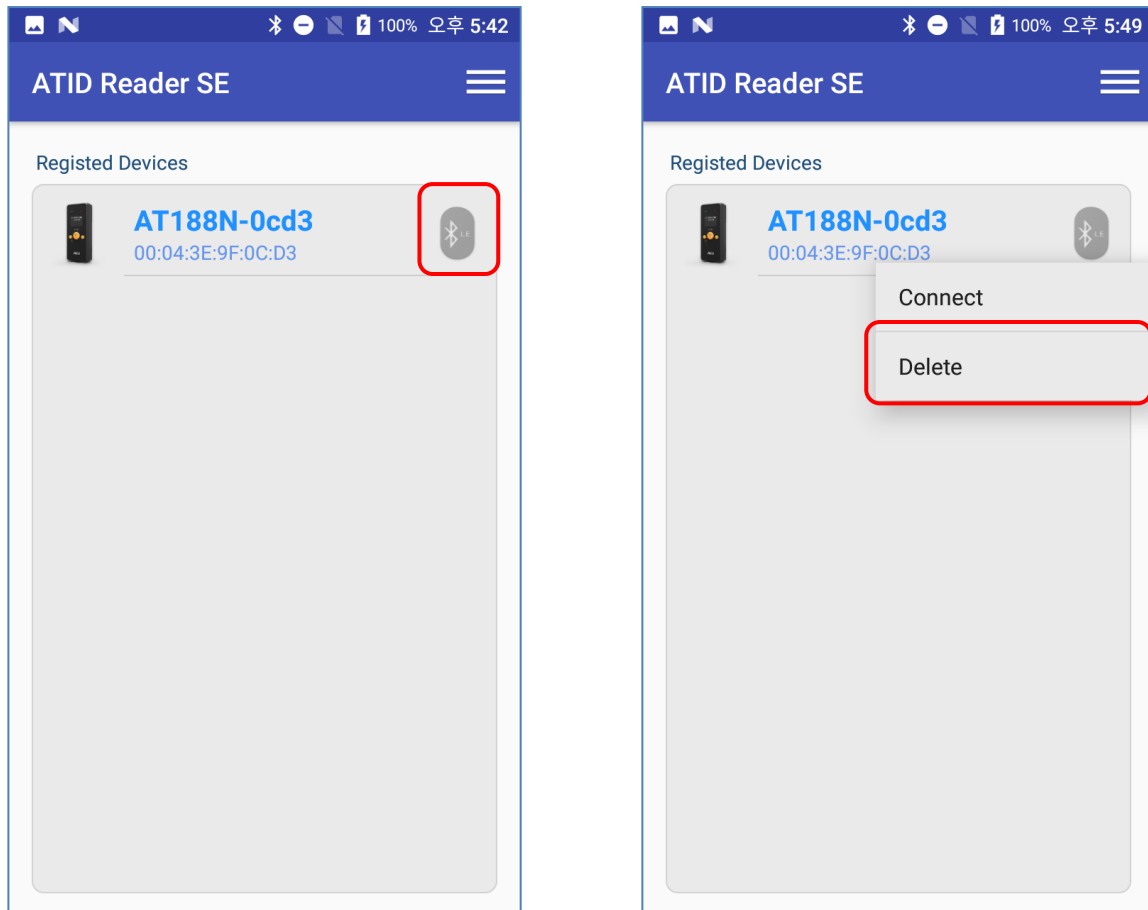
With registration, it will be possible to connect the device and execute various function demonstrations for each device.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


2.3. Remove a Registered Device

When a linked device is no longer in need, you can remove it.

Like the picture below, press the right button of the device you want to remove. Then, a menu pops up.



If you press "Delete" from pop up menu, you can remove the selected device from the list.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

2.4. Connect Device

There are two ways to connect a device.

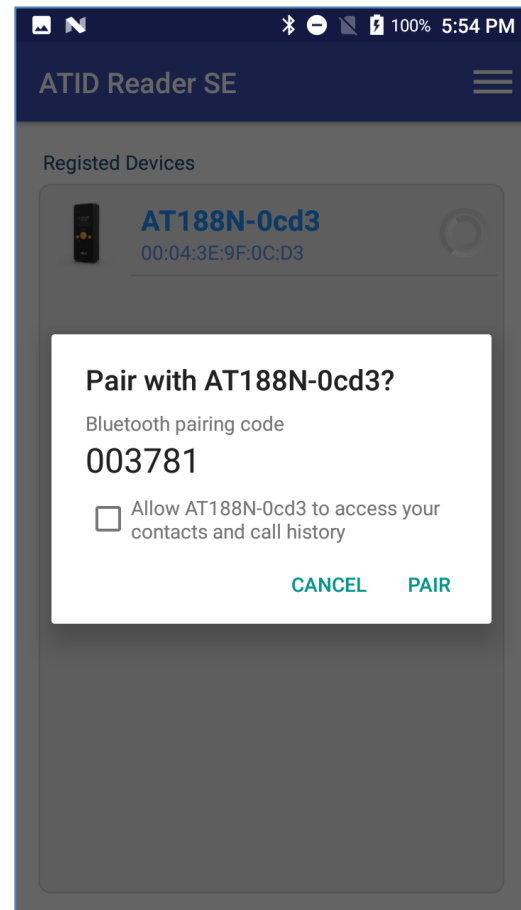
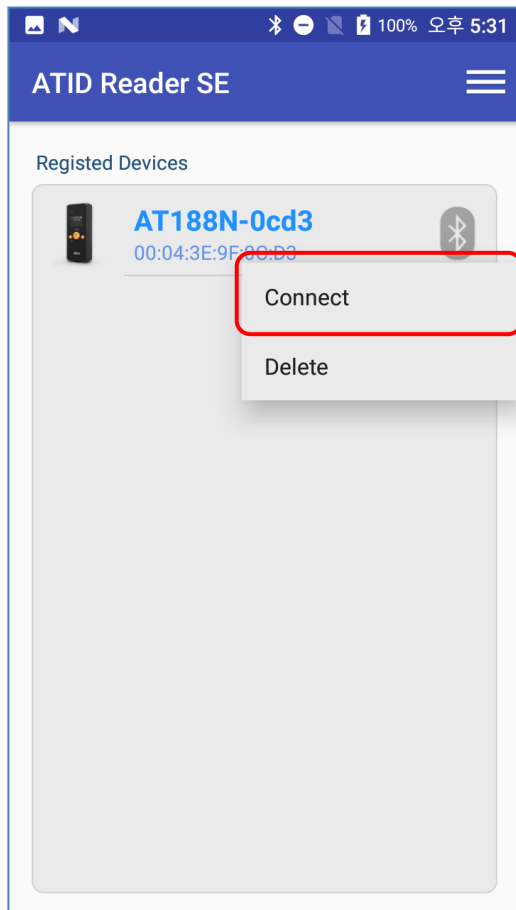
Literally just connecting the device, and moving on to the demo screen immediately after the device is connected.

If the device is already connected, demo screen will automatically appear; If it is not connected, demo screen will show upon completion of connection.

2.4.1. How to connect devices for Bluetooth

Connecting the device is similar to removing the device.


On the device list, press the right button of the device that you are trying to connect, and then touch on the appearing "Connect" menu. Refer to the following picture.

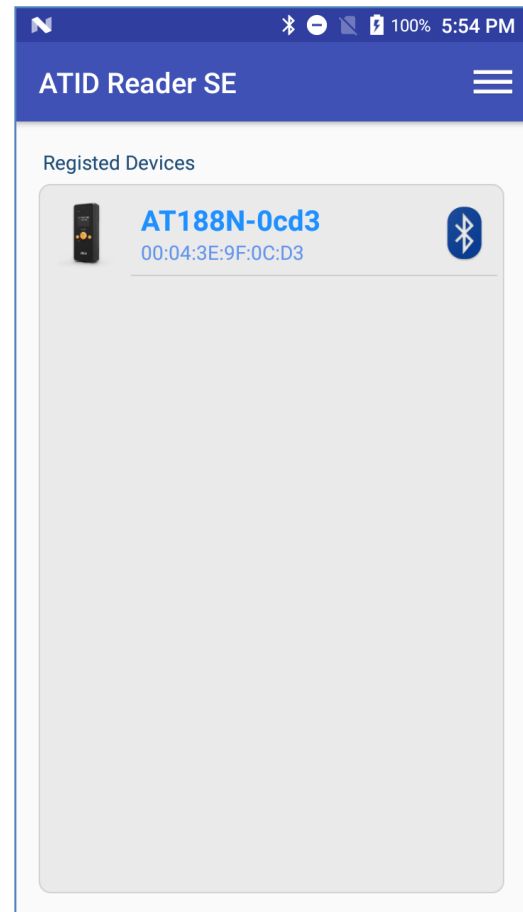
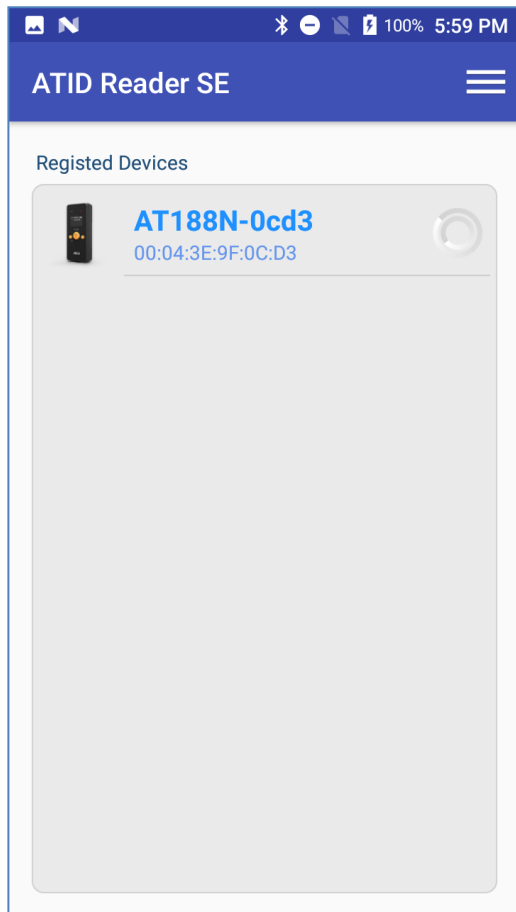


If the device is being connected for with Bluetooth for the first time, the dialog box requesting for pairing pops up.


Press "OK" to proceed. While the device is being connected, the right button of the device under connection progress will change to "Progress" on the equipment list.

When the connection with the device is completed, the color of the right button of the connected device is changed in the device list.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2



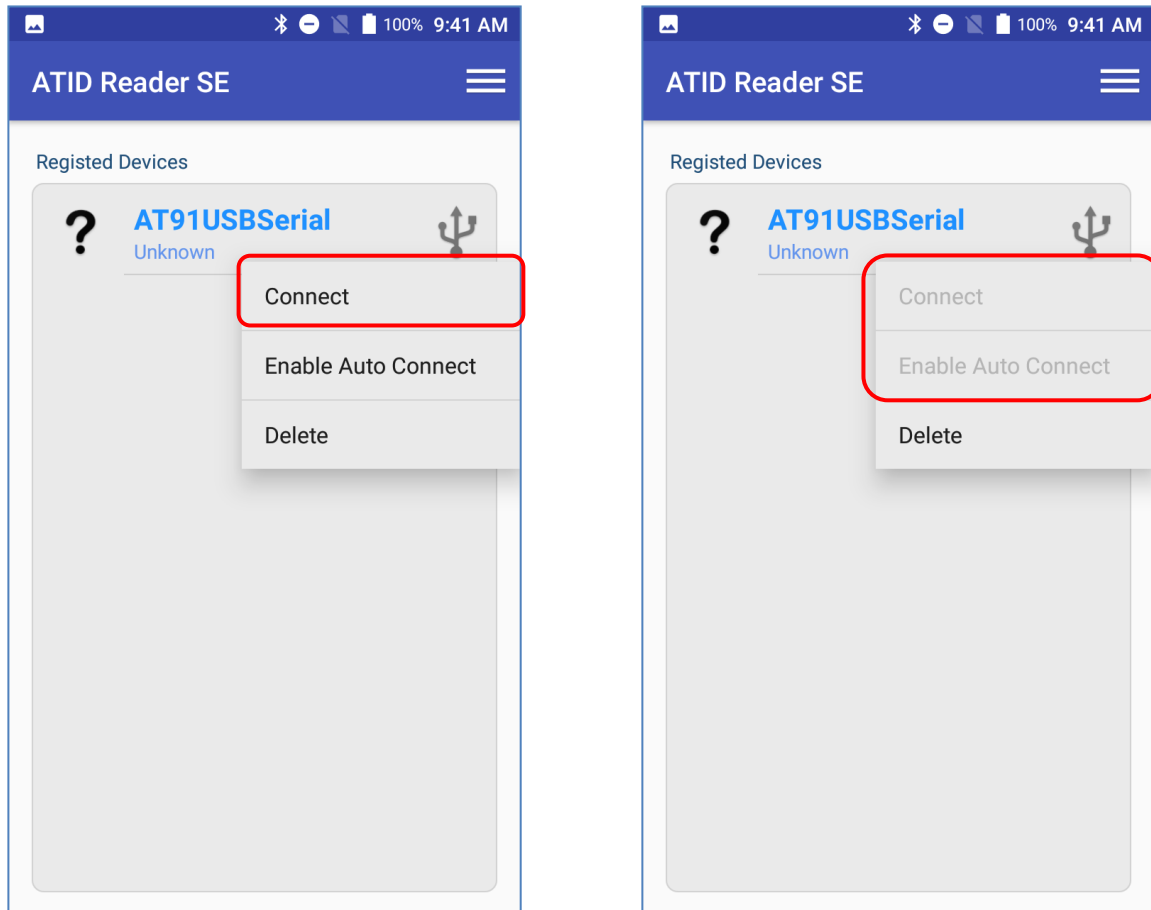
The connection state can be notified with the color of the right button on the device list.
When the connection fails, the button becomes grey, which means the connection is incomplete.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

2.4.2. How to connect devices for USB

Just plugging the USB device does not connect it.

Touch the right button of the device you want to connect from the device management list, and touch the "Connect" menu from the pop-up menu that appears, just like the picture below.




When USB is not connected to the smart phone, the "Connect" button and the "Enable Auto Connect" button get inactivated.

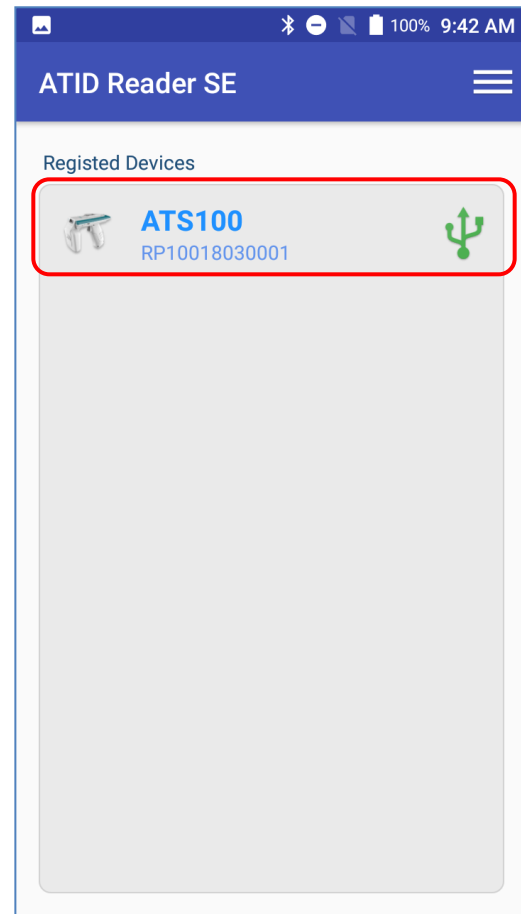
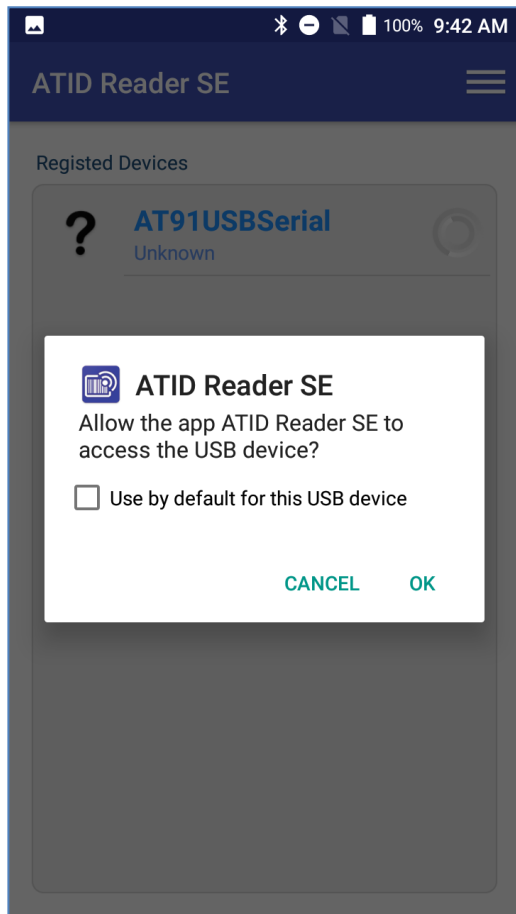
If you are connecting with USB cable for the first time, a dialog box requesting USB Access will show up.

Touch onto "OK" to proceed.

While the device is being connected, the right button of the device under connection progress will change to "Progress" on the equipment list.

When the connection with the device is completed, the color of the right button of the connected device is changed in the device list.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2




When the equipment is first connected, a dialog box pops up to ask whether you would approve of USB connection.

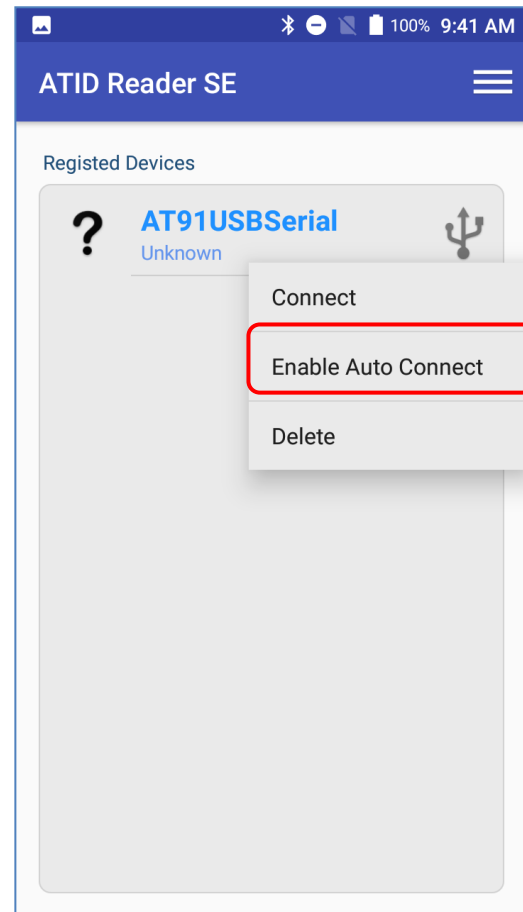
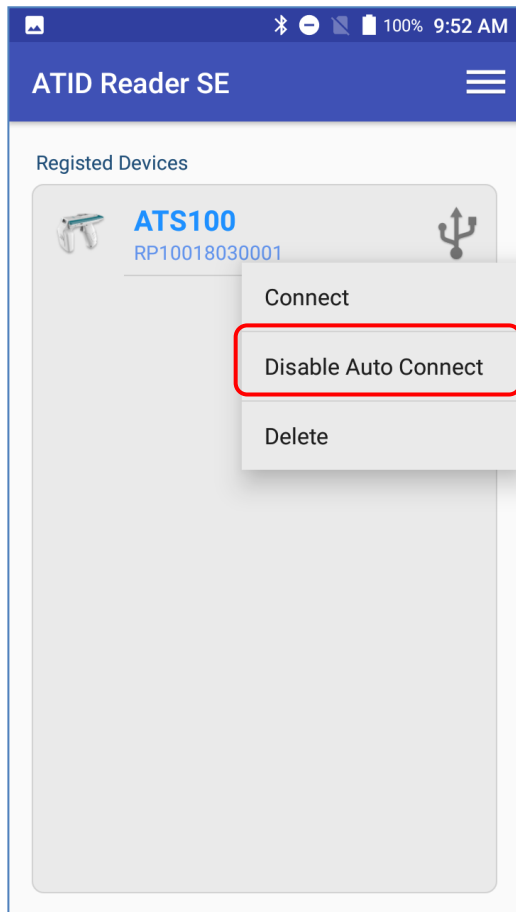
Touch "OK" to proceed.

When the USB connection is completed, the equipment name and the Serial Number are shown.

You can identify the connection state with the color of the right button on the equipment list.

When the connection fails, the button is shown grey, which means it is not connected.


 All That Identification		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2



Select if you want to enable automatic device connection upon USB connection.

If "Disable auto Connect" is selected, USB cable connection does not automatically trigger the connection of the device.

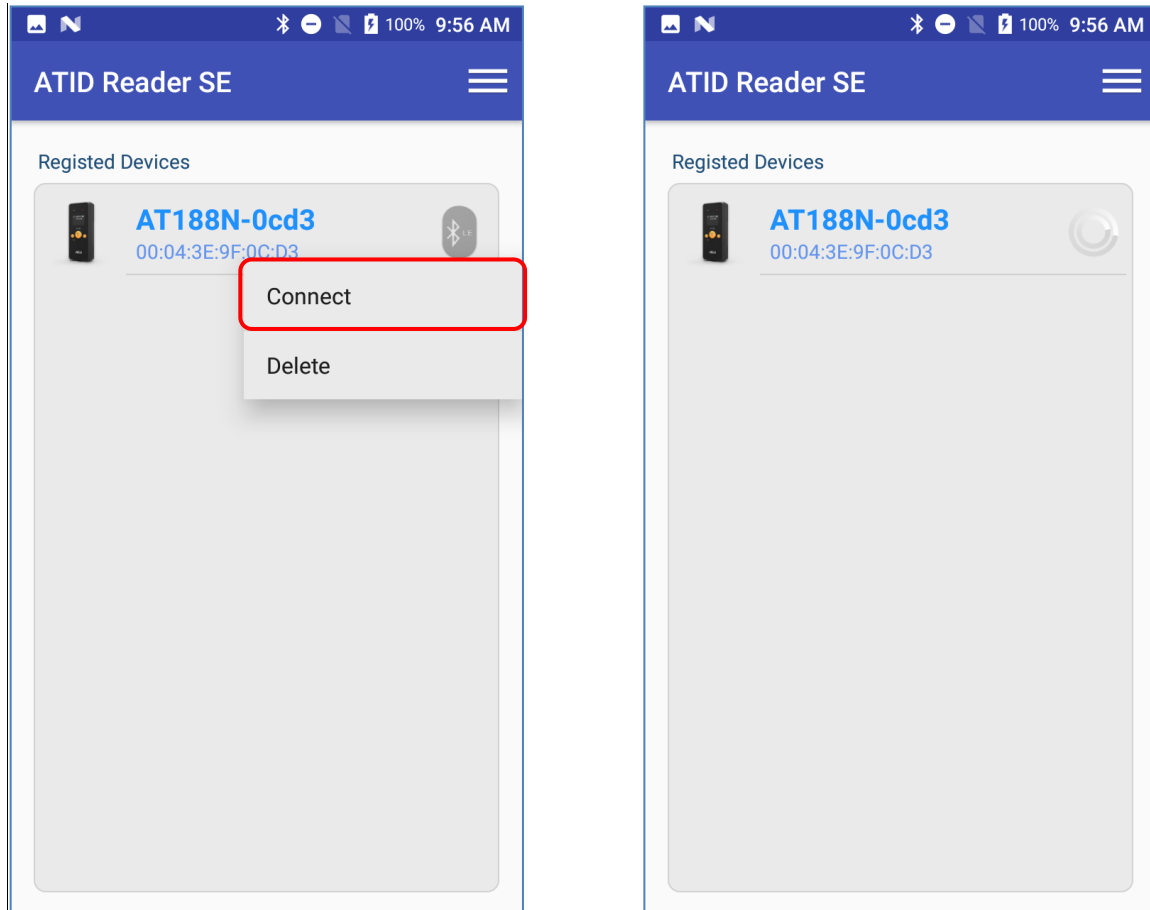
If "Enable auto Connect" is selected, USB cable connection automatically triggers the connection of the device.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

2.4.3. How to connect devices for BLE


Connecting the device is similar to removing the device.

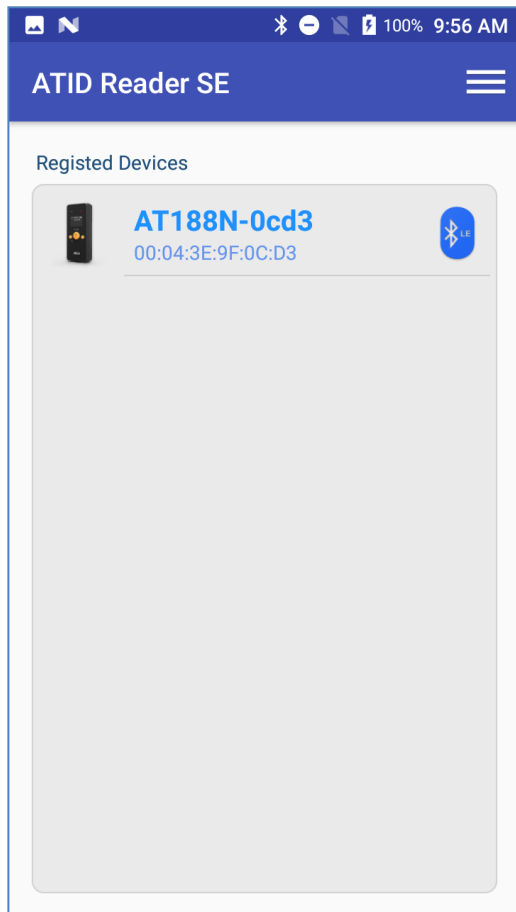
On the device list, press the right button of the device that you are trying to connect, and then touch on the appearing “Connect” button. Refer to the following picture.




While the device is being connected, the right button of the device under connection progress will change to “Progress” on the equipment list.

When the connection with the device is completed, the color of the right button of the connected device is changed in the device list.

 All That Identification		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2



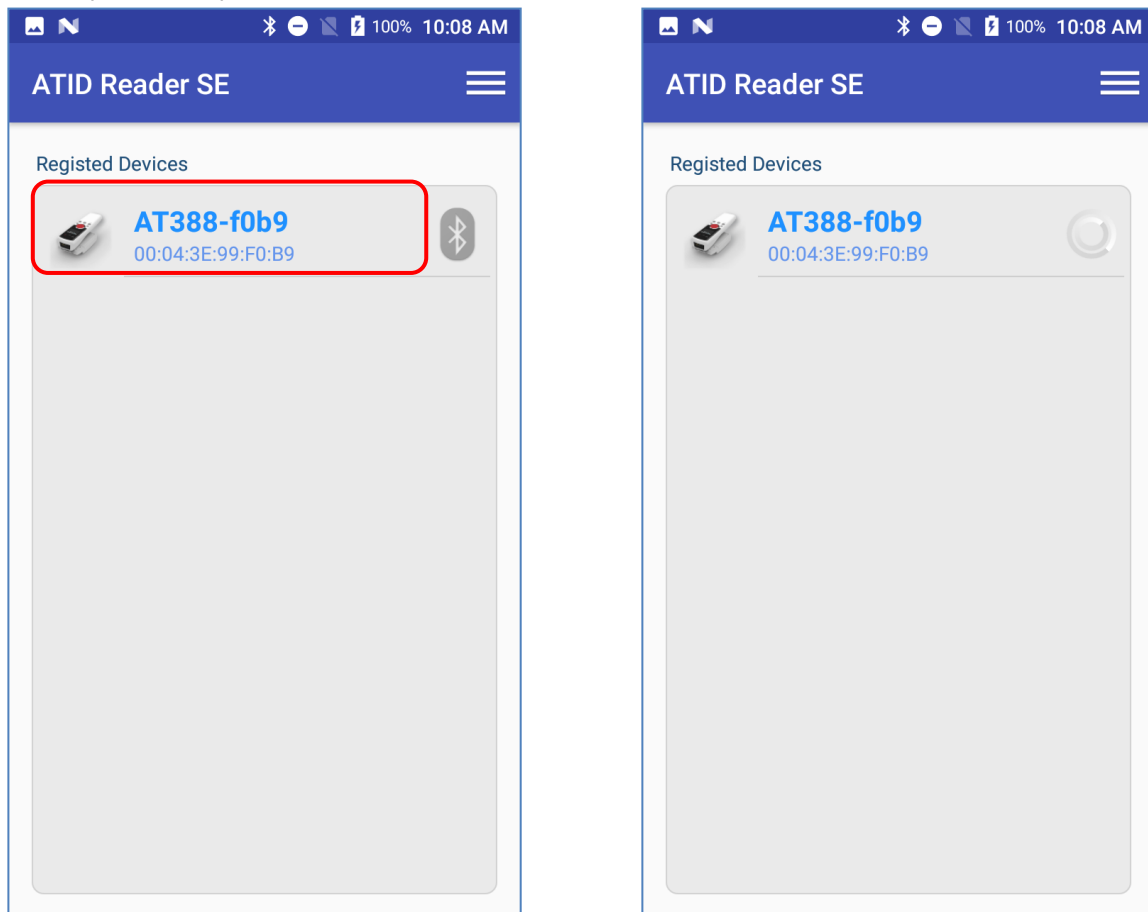
The connection state can be notified with the color of the right button on the device list.
When the connection fails, the button becomes grey, which means the connection is incomplete.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

2.4.4. How to connect your device and go to the demo screen


To move directly to the demo screen upon device connection, you have to press on the device you are about to connect, on the device list.

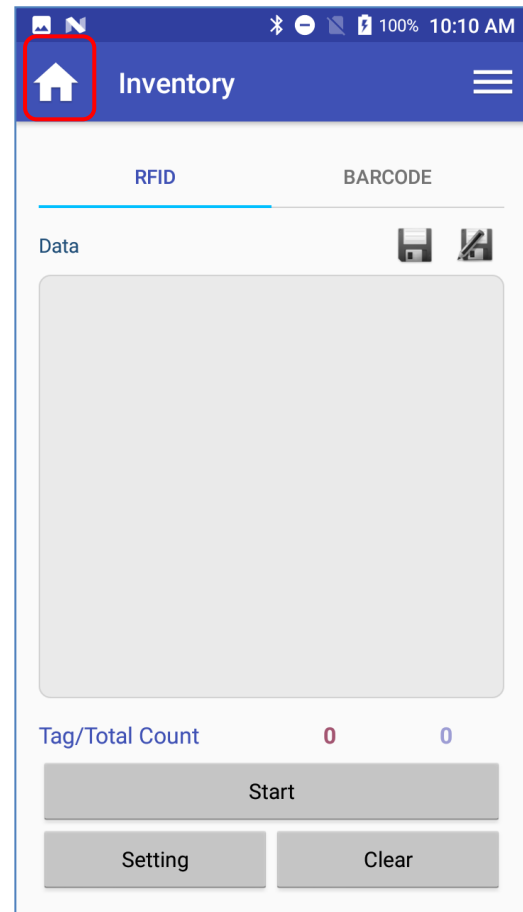
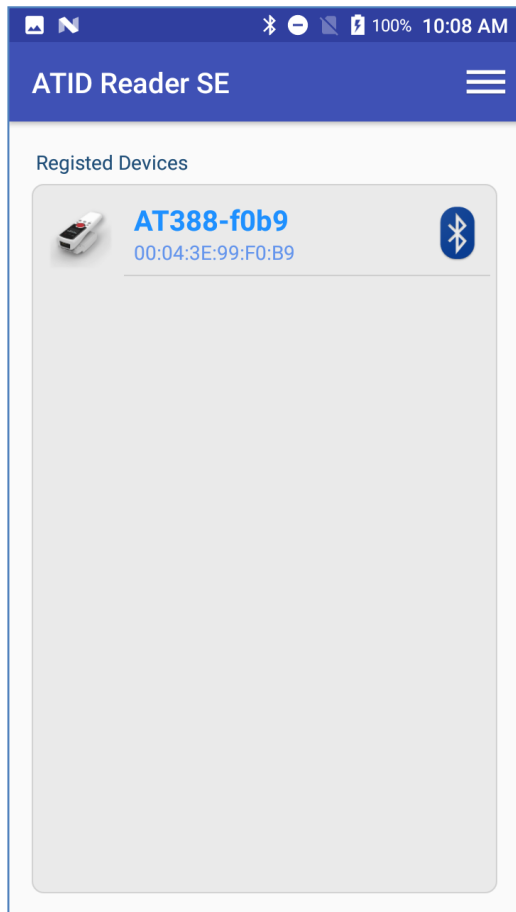
If it is unconnected, try connecting the device first to after which demo screen automatically comes up, like the picture below.




If the device is already connected, long press on the connected device to move on to the demo screen.

The following picture is how demo screen looks.

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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

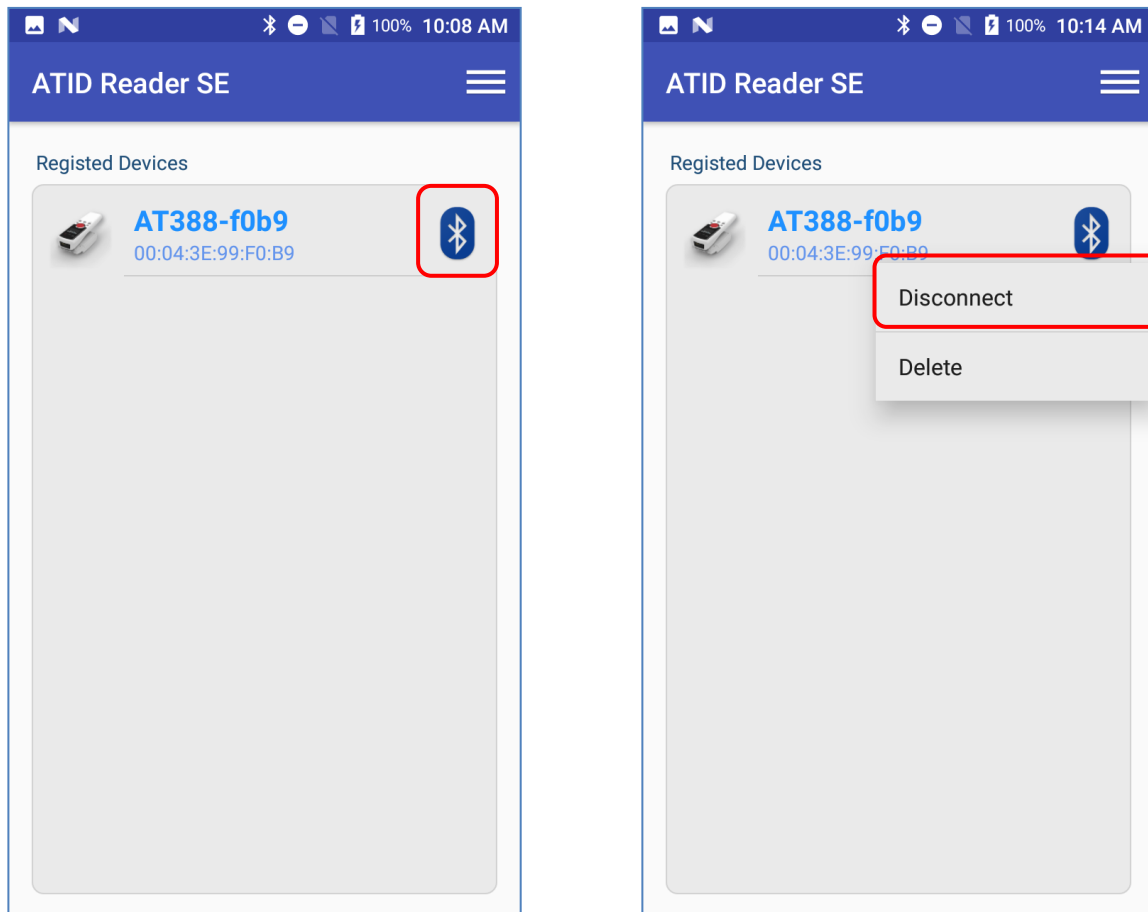


On the demo screen, you can press the "Back" button, or the icon shown at the upper screen to go back to the device list.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


2.5. Disconnect Device

When you are to disconnect the device, press the right button of the connected device like the picture below.

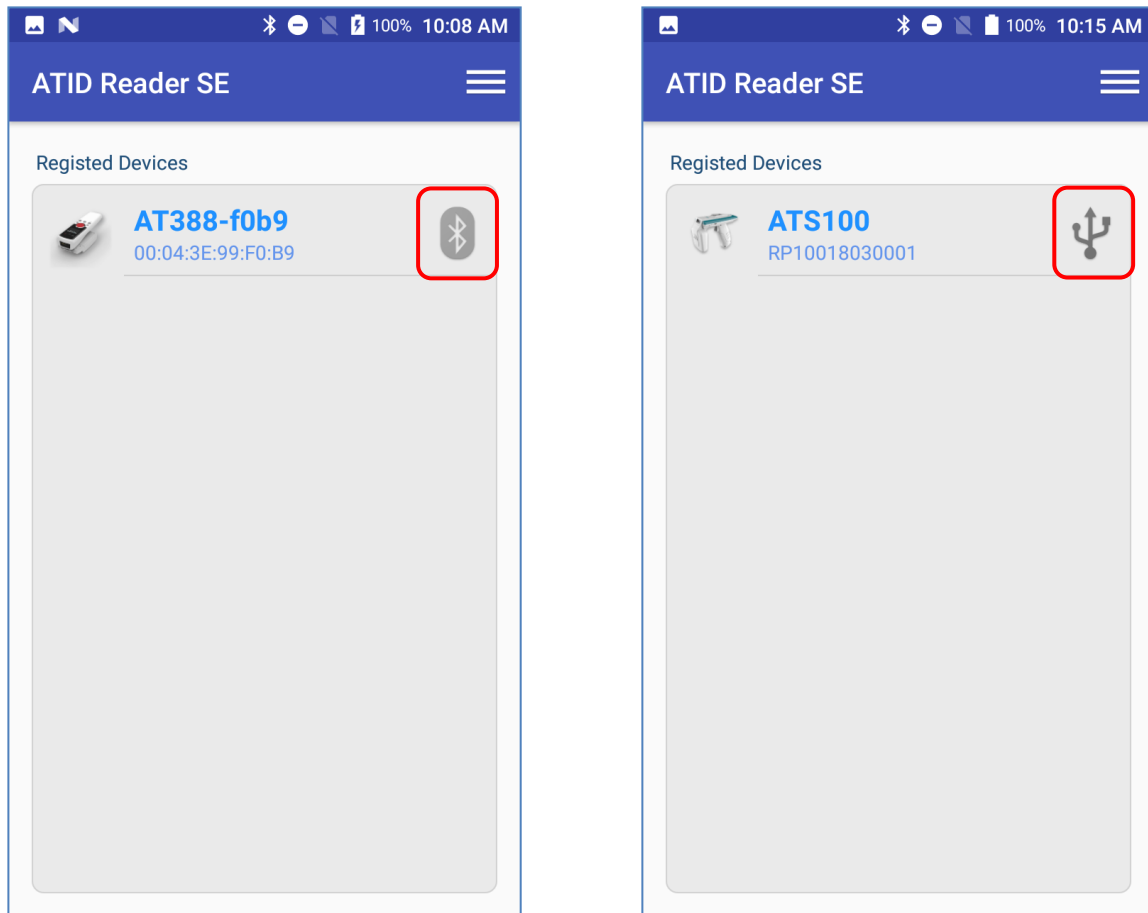


There is a "Disconnect" menu popped up for connected devices.


If you touch on the "Disconnect" button the device disconnected, the button will turn grey.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

The picture below shows the connection between the app and the device.



There appears a "Disconnect" menu in the connected device.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

2.6. How to charging the phone for USB

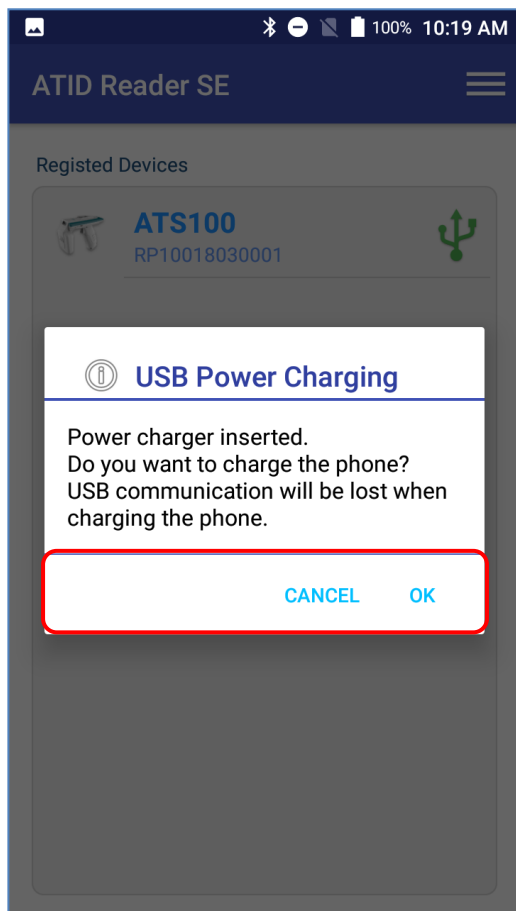
This is the function to set whether to charge the smart phone when the power cable is connected to the device.


※ This function is supported only on ATS100 and ATS200.

If you connect the charge cable to the device while the smart phone and the device are connected via USB, a screen for asking whether to charge or not will appear.

Smart phone begins to charge if you press "OK". Yet, when charging begins, USB connection to the smart phone is terminated.

If you press "Cancel", smart phone will not be charged, and USB connection will be maintained.



		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3. Demo

Select the connected device from the device list screen to go to the demo screen.


If the AT188N, AT188NP, AT388, or ATS100, ATS200 device is not connected to the host program (stand-alone mode), the RFID tag and barcode read by the device are stored in the device's internal memory.

When it is connected with the host program, it operates in align with the host program and processes the read RFID tag/barcode data according to the setting of the host program.

When connected to the device, the ATID READER SE Demo consists of 5 demo screens.

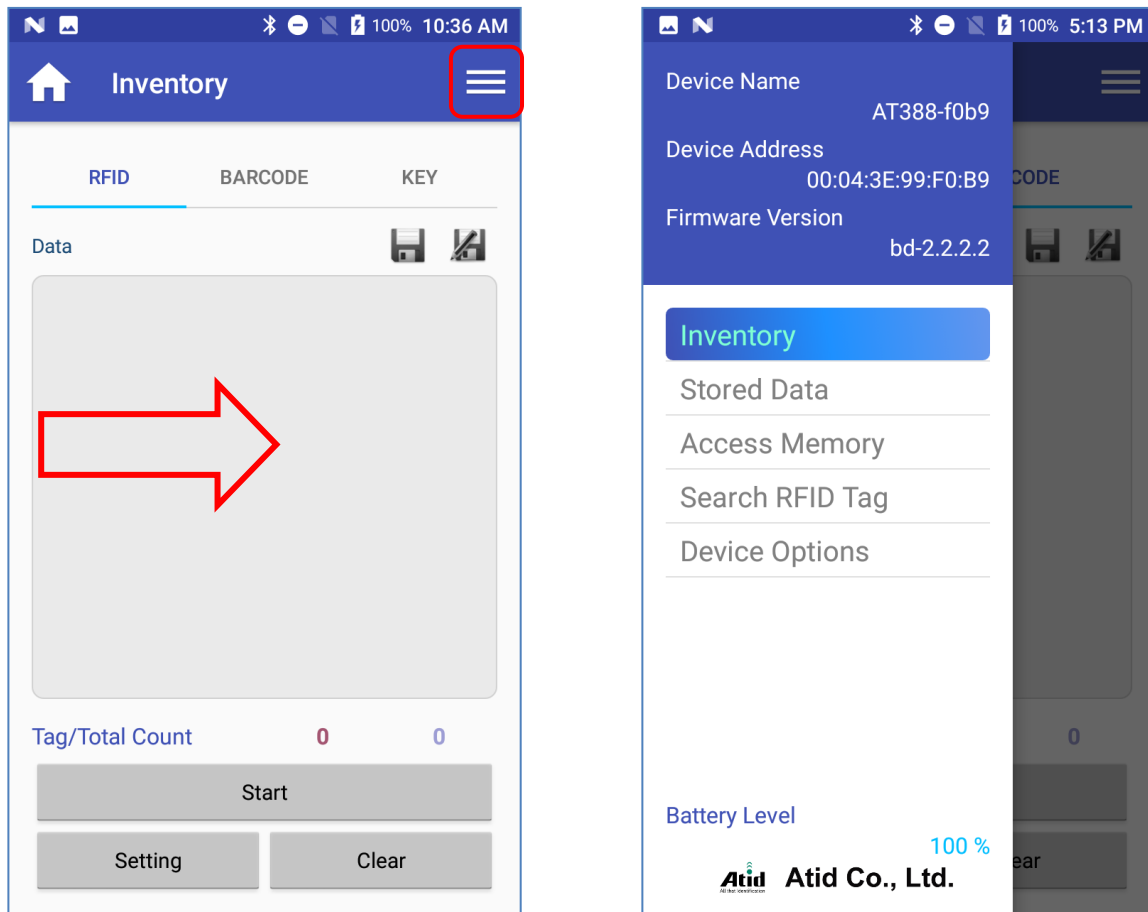
If you go to the demo screen after initial connection, you will go to the Inventory RFID & Barcode Demo screen by default.

It is composed of Stored Data Demo screen that reads and displays the data stored in the device, Access Demo for "Read, Write and Lock Memory" and Search RFID Tag Demo and Device Option Demo that sets the device options.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.1. Demo Menu

You can see the demo menu appear by touching the menu button on the upper right side of the demo screen or swiping the screen from left to right as shown in the following figure.




The demo menu displays the firmware version of the connected device, the name of the connected device, and the address of the device.

In addition, you can select Inventory, Stored Data, Access Memory, Search RFID Tag, and Device Options.

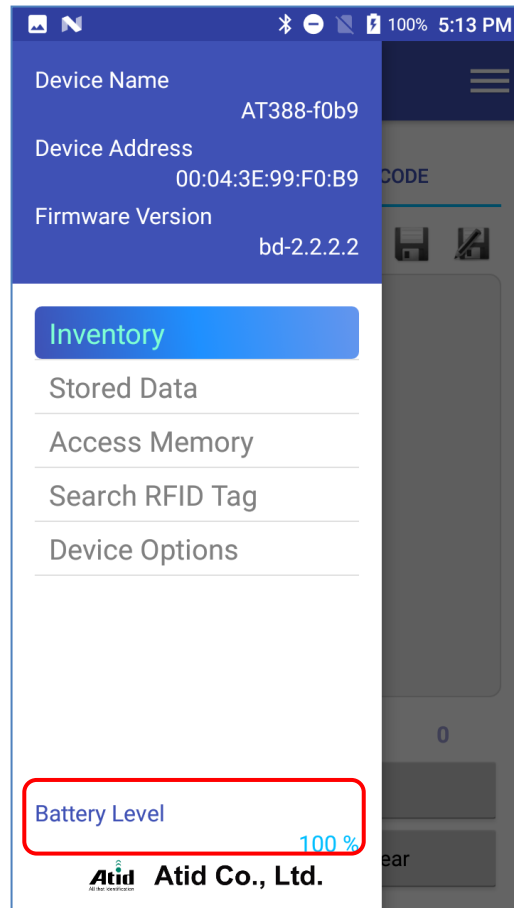
If you select menu, you can move to the selected demo screen.


※ Stored data is not supported by ATS100, ATS200 and ATD100.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.1.1.1. Battery Level

This part displays the battery level of device.



		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

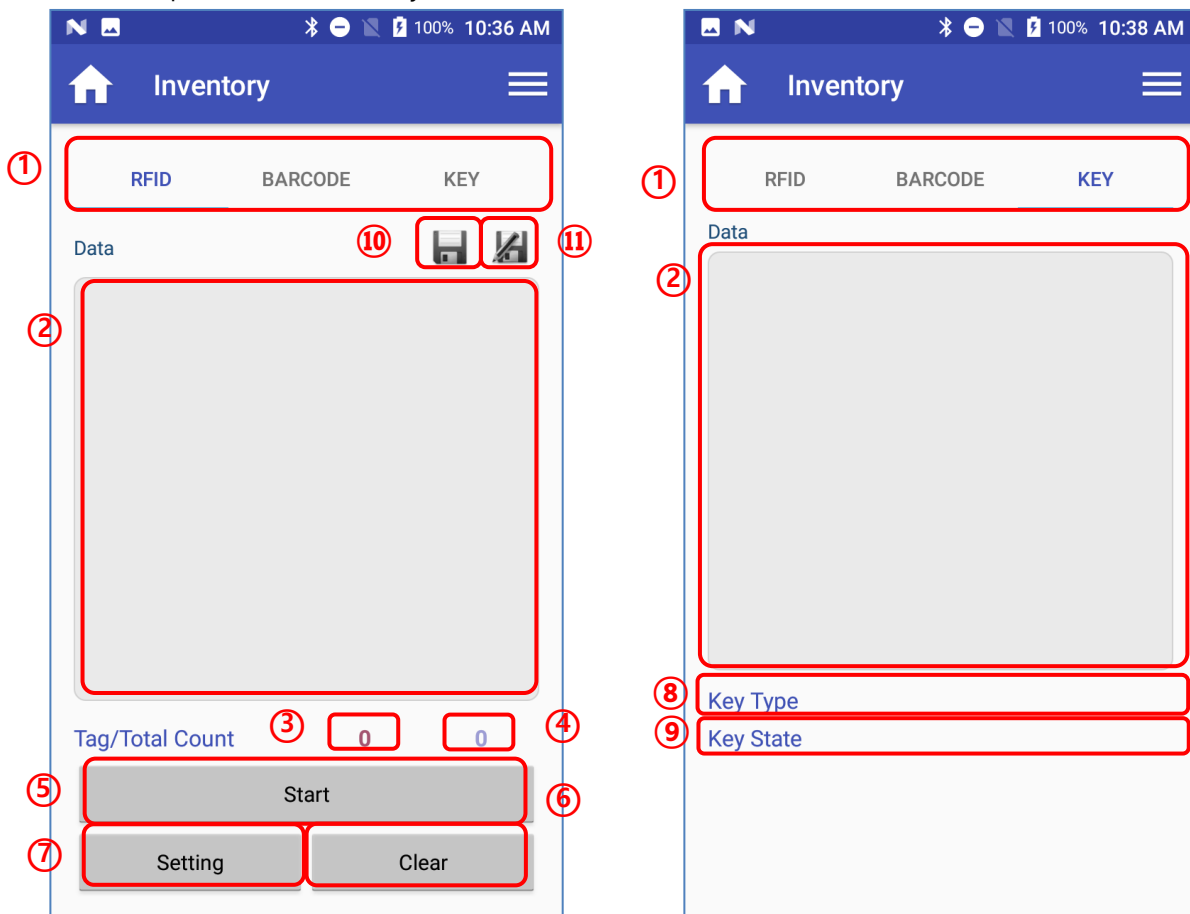
3.2. Inventory

Inventory Demo can be seen using RFID (UHF), barcode reader, and Key Event Reading.


※ Key Event Reading is only supported by ATS100 and ATS200

3.2.1. Screen Composition

Screen composition of Inventory demo screen is as follows.



- ① **Operation Mode** : You can set and indicate the current device as RFID Reading, Barcode Reading, or Key Even Mode. If the device does not support, it will not be activated.
- ② **Data List** : Displays RFID tag, barcode, and Key data read from the device.
- ③ **Data Count** : Shows the number of Tag read from Data List.
- ④ **Total Read Count** : Shows the Total number of data read from Data List.
- ⑤ **Start** : Inventory is started in RFID reading mode and barcode decoding is started in barcode reading mode. After initiation, it changes to Stop button.
- ⑥ **Clear** : All data in Data list gets removed and each count values are reset.
- ⑦ **Setting** : Go to the screen to set RFID or Barcode Option.
- ⑧ **Key Type** : Field for Key Type.
- ⑨ **Key State** : Field for Key State.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

- ⑧ **Key Type** : Shows the Key type
- ⑨ **Key State** : Shows the Up/Down state of Key
- ⑩ **Save** : Save the data to a file.

It is saved with the following path and file name.


path : internal memory/List

file name : yyyy-MM-dd_hh:mm:ss_list.txt

- ⑪ **Save As** : Saves the data to the specified directory and file name.

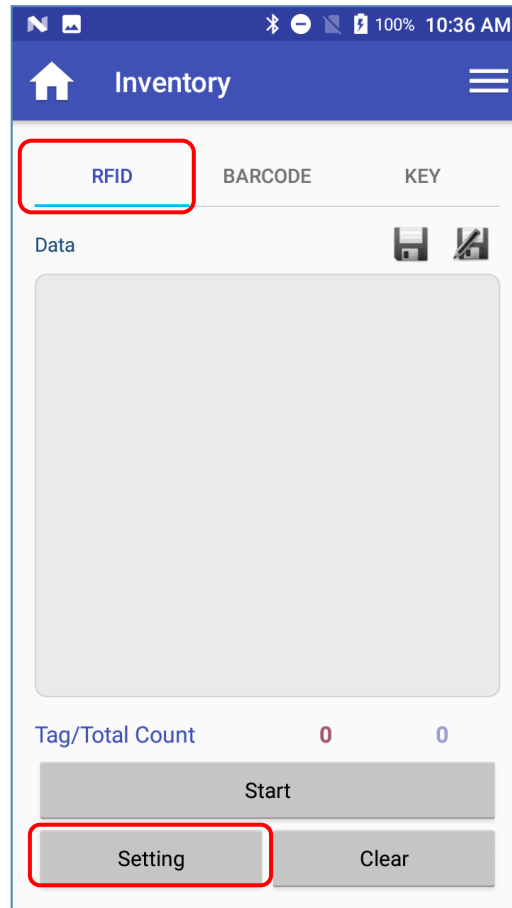
Note:

**** From Android 11 and above file format is as yyyy-MM-dd_hh.mm.ss_list.txt**


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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2. How to change RFID options

The RFID Option provides an environment to manage settings for RFID UHF modules.

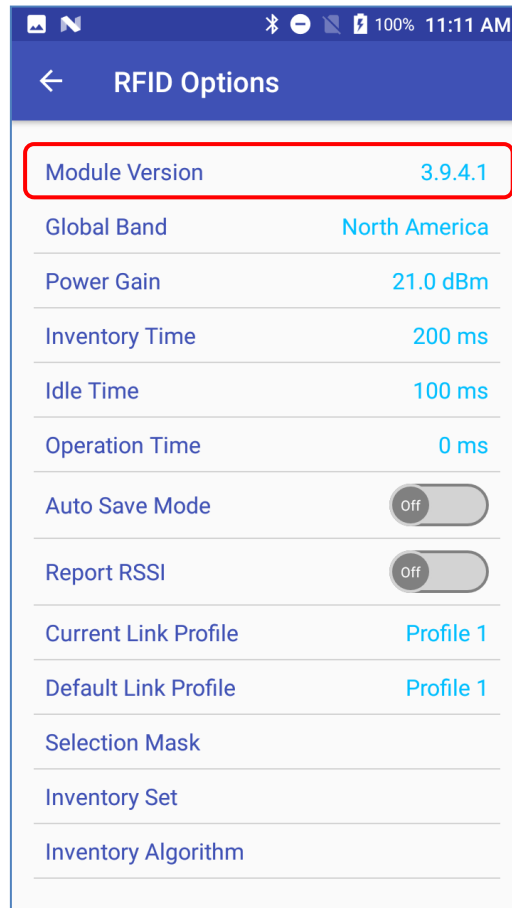



After selecting Operation Mode as RFID, touch the Setting button and the RFID Option menu will be displayed.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.1. Module Version

This shows the Version of RFID UHF module.



		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

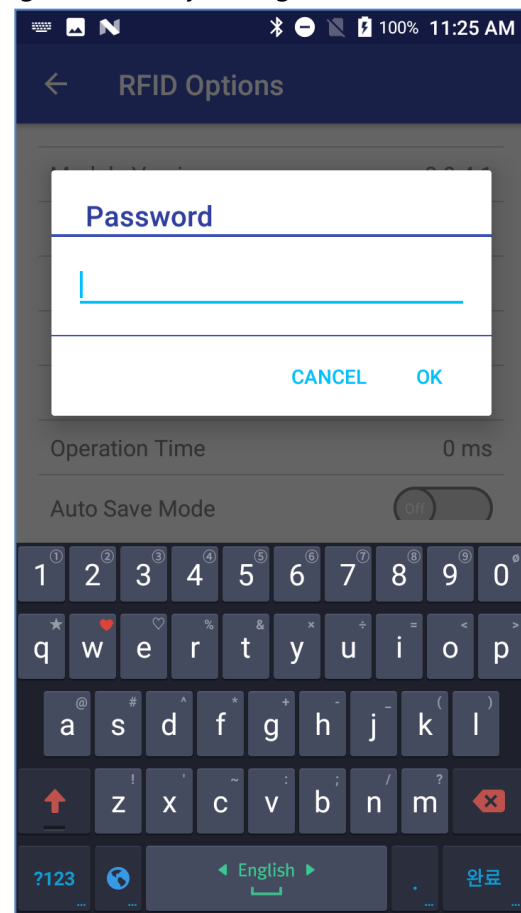
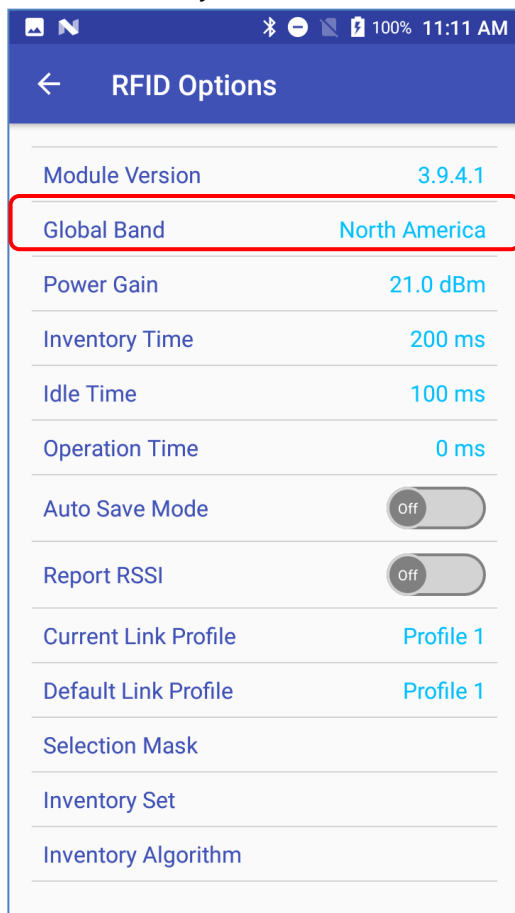
3.2.2.2. Global Band


With Global Band, you can display and change the country setting information set in the RFID UHF module.

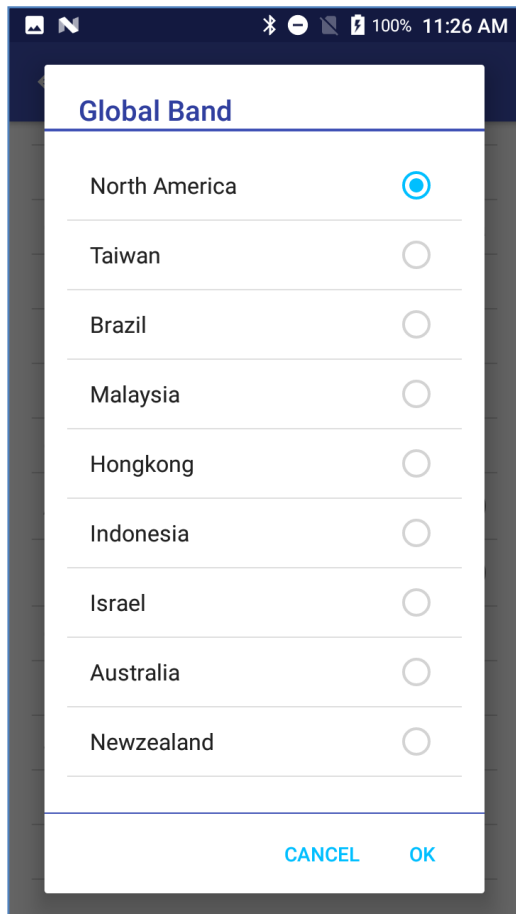
Touch the Global Band section in the Option window to display the dialog box for entering the password.

Enter Password and touch "OK" button to display dialog box to set the country

Select the country and touch the "OK" button to change the country setting



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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2




In the Global Band dialog box, you can drag the displayed value by dragging it with your finger.

After changing the country setting, the device (AT188N, AT188NP etc.) will reboot and the application will be disconnected.

Touch the "Cancel" button to return to the Option screen without setting the country.

Country setting cannot be changed if the country of the global band is as follows:

*** Europe, China, Japan , India**

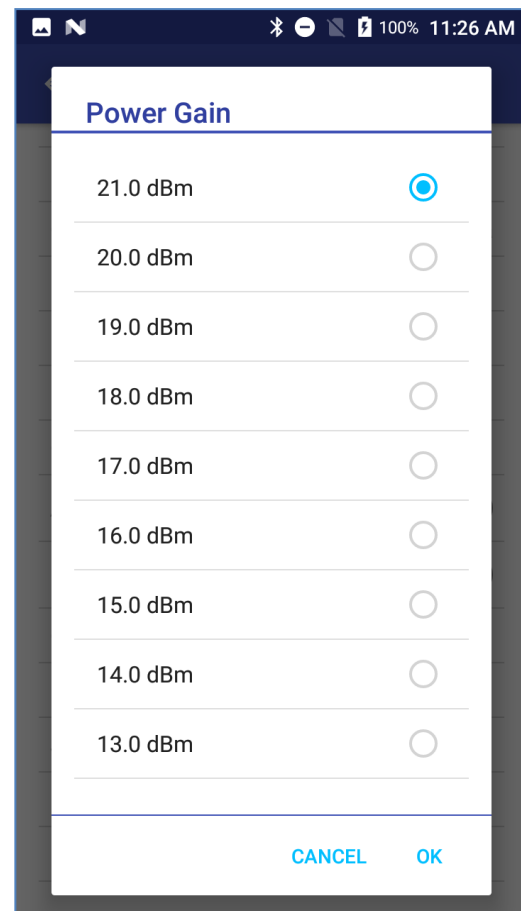
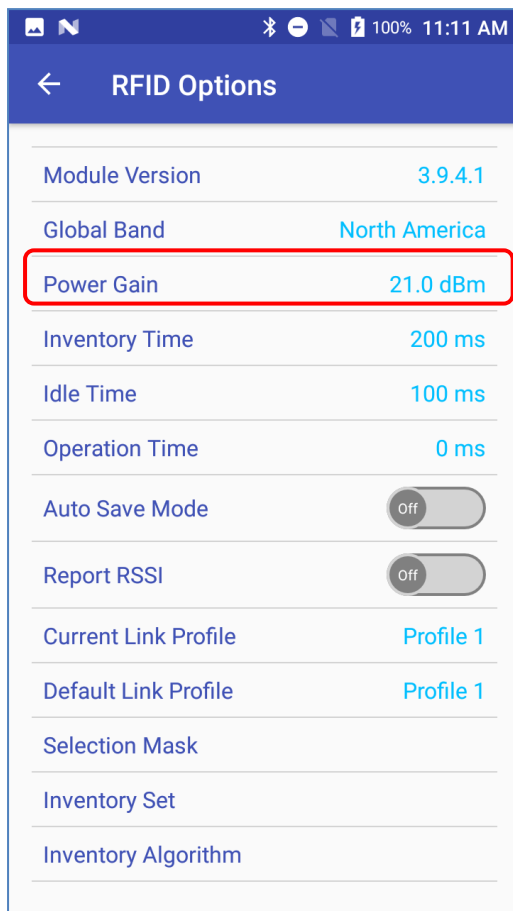
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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.3. Power Gain

Power Gain allows you to configure the output of the RFID antenna when performing the Inventory.


If you touch the value of Power Gain in the Option screen, a dialog box for setting the Power Gain appears.

Select the desired value and touch the "OK" button to set the Power Gain value.



The values can be scrolled by dragging with your finger from the Power Gain dialog box.

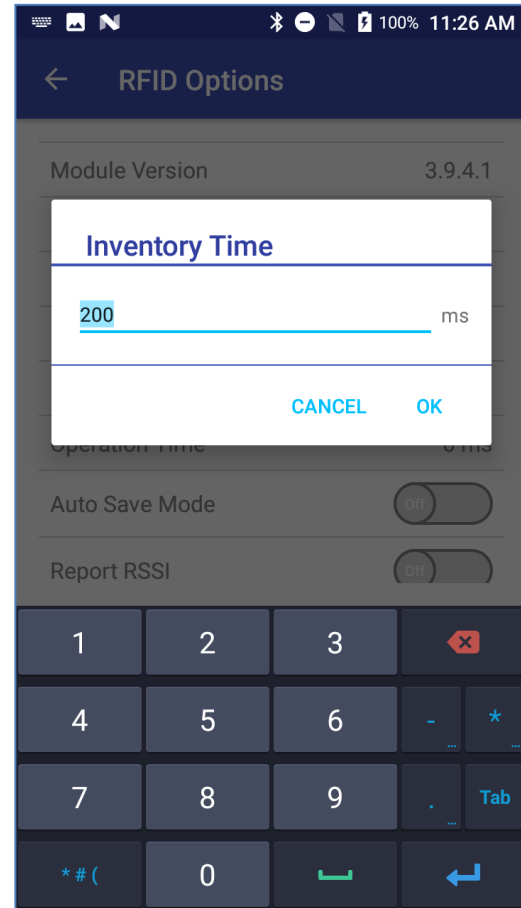
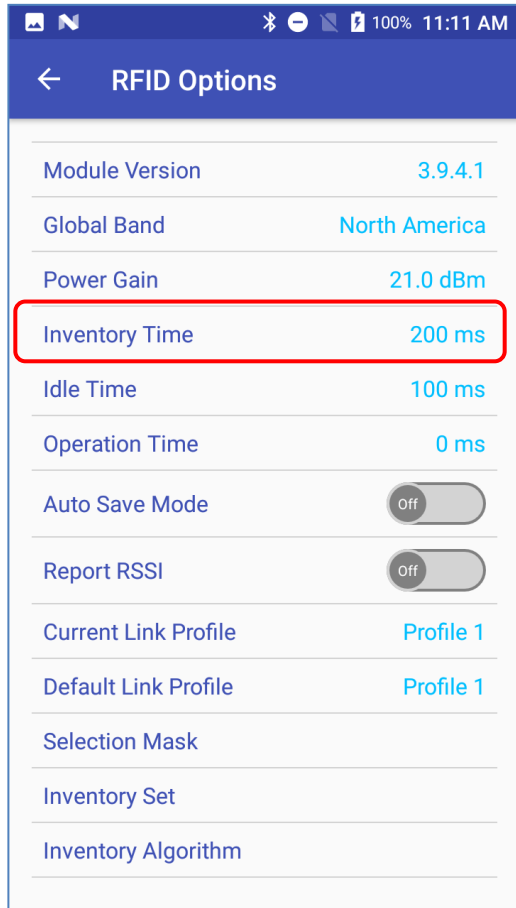
If you touch the "Cancel" button, you can go back to option screen without setting the power gain value.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.4. Inventory Time

With Inventory Time, you can set the time for antenna transmittance among RFID UHF Inventory Round.

Setting unit is ms.




Inventory Round time cannot go over 400ms.

Inventory Round time includes sending radio waves with the antenna and idle time.

You can set the time to send radio waves using Inventory Time, and the resting time using Idle Time.

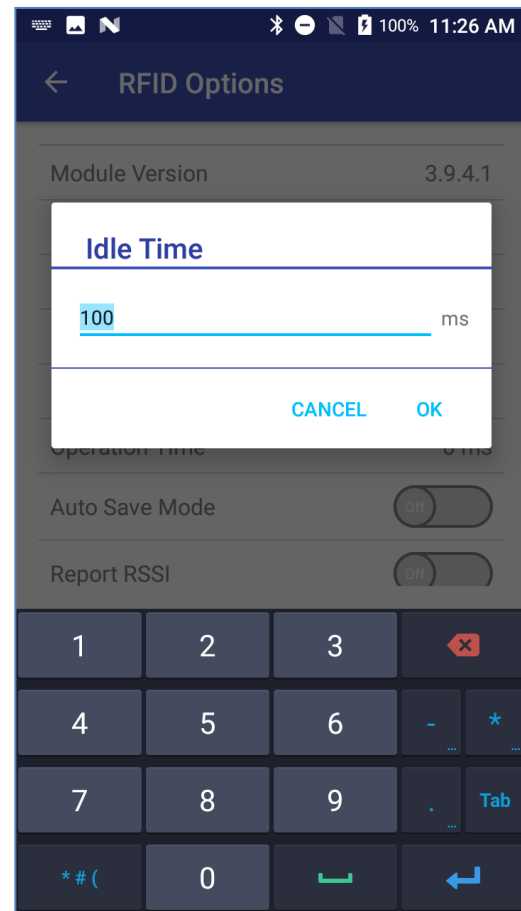
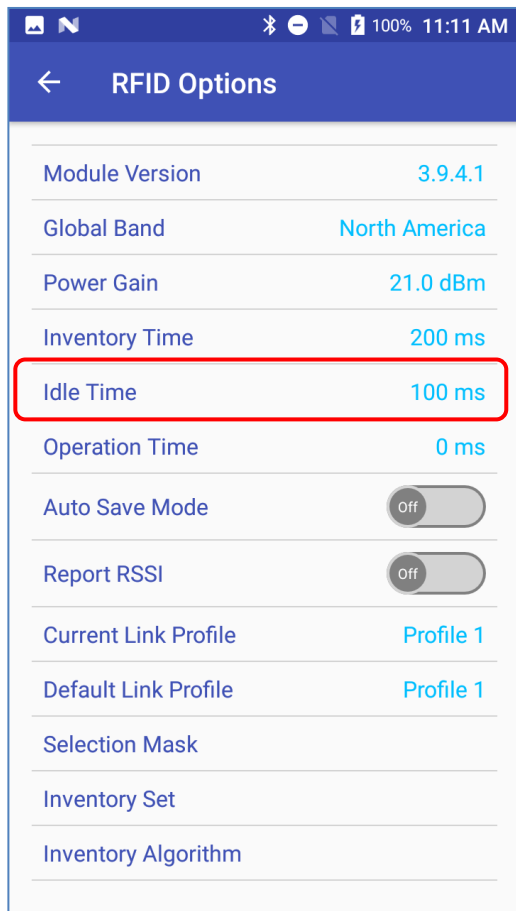
Inventory Time and Idle Time cannot go over 400ms together.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.2.2.5. Idle Time

Idle Time sets the resting time among RFID UHF inventory round time, during which the antenna does not propagate.

The setting unit is ms.



As explained at Time section before, Idle Time and Inventory Time cannot be set more than 400 ms together.

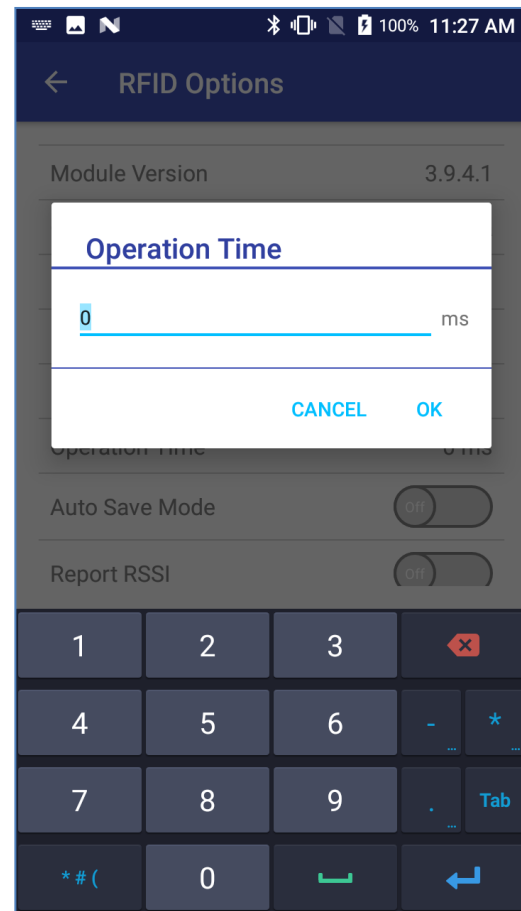
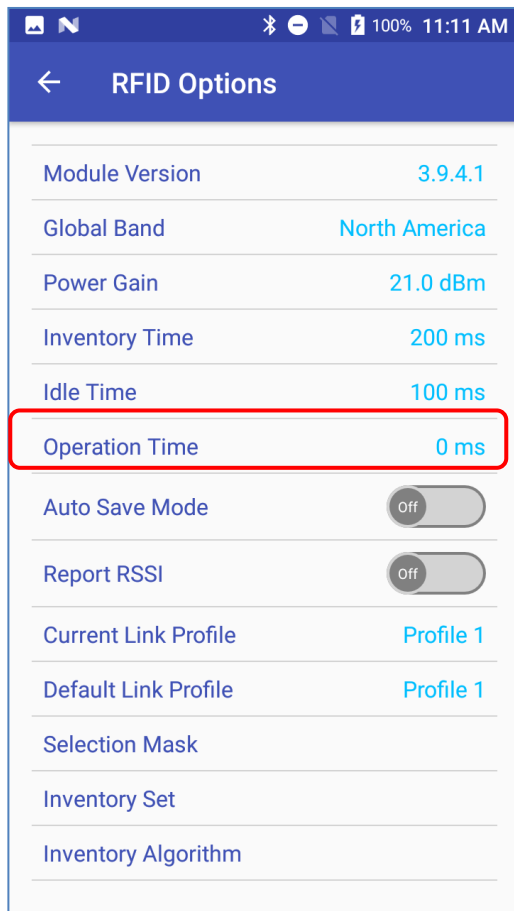
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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.6. Operation Time

You can set Inventory operation time with Operation Time option.

If the Operation Time option is set to 0, Inventory will perform an action until the job is stopped indefinitely.

The setting unit is ms.




If you touch values on Operation Time, the dialog box to time set for Operation Time comes up.

If you input values and press "OK", operation time is set.

If you press "Cancel" button, you can go back without setting operation time.

If a value other than 0 is entered for the Operation Time option, the Inventory operation will continue for a set period of time and will automatically stop.

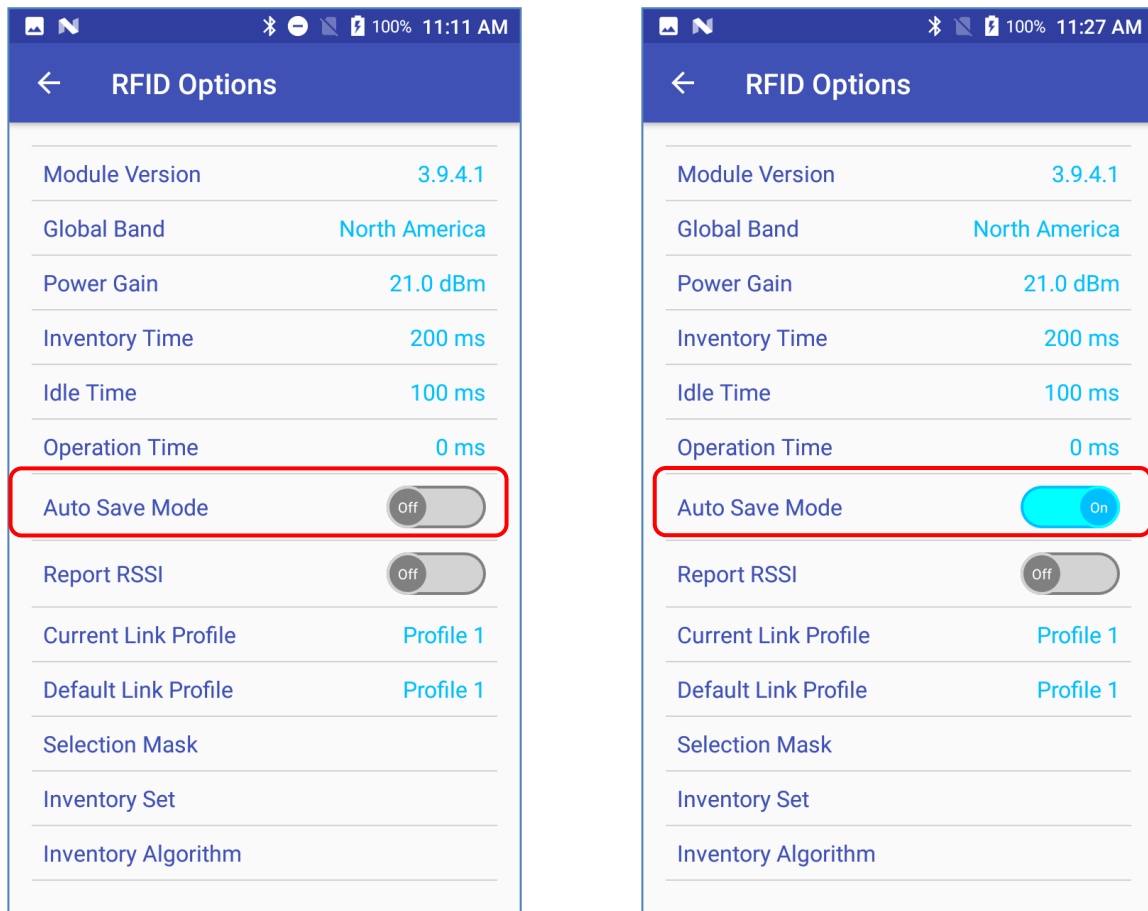
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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.7. Auto Save Mode

The Auto Save Mode option allows you to choose whether to store the imported tag data or barcode in the internal memory of the device.


Auto Save Mode is only active when the device is connected to the demo and it is not effective when the device is not connected to the demo.

Auto Save Mode option will further be explained in Stored Data screen.



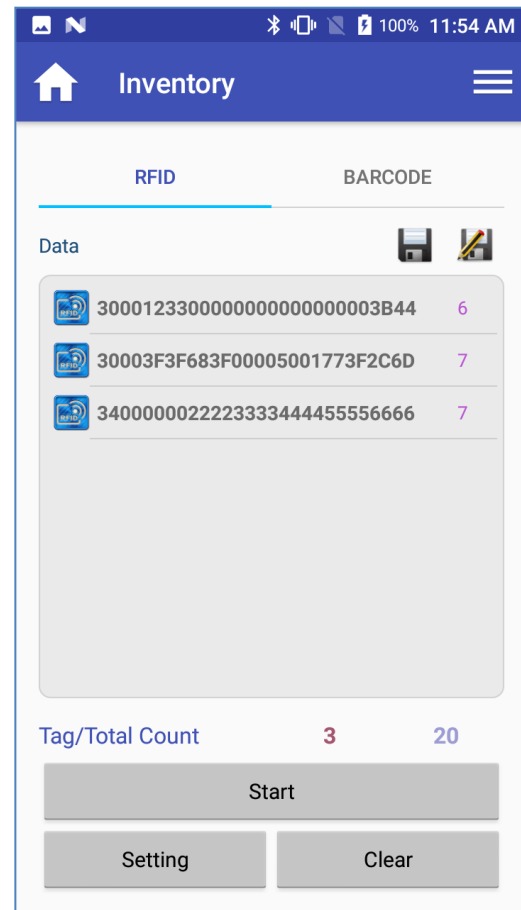
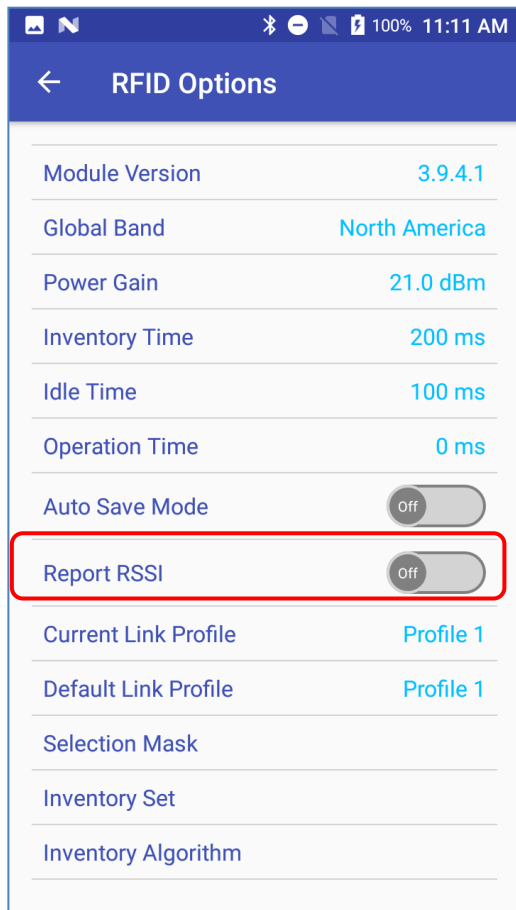
Inventory data is saved to the device while Auto Save Mode is turned on.


※ This function is not support in ATS100, ATS200 and ATD100.

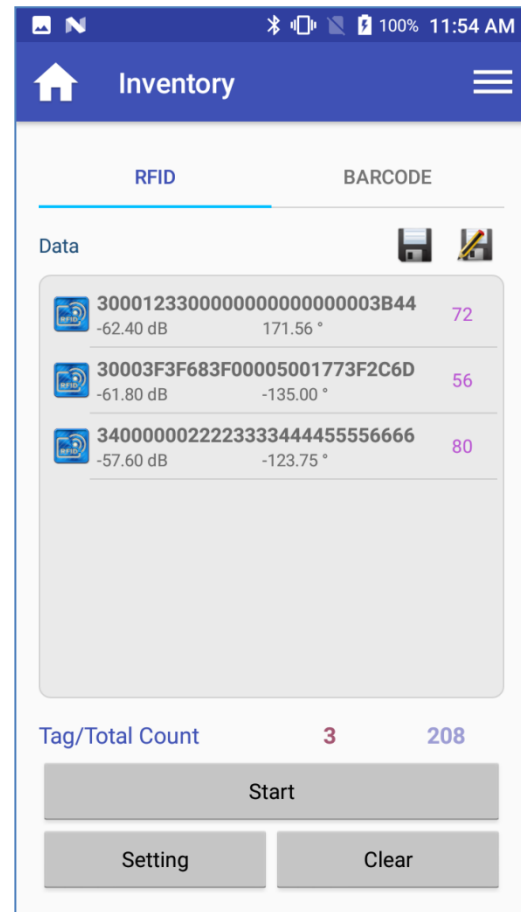
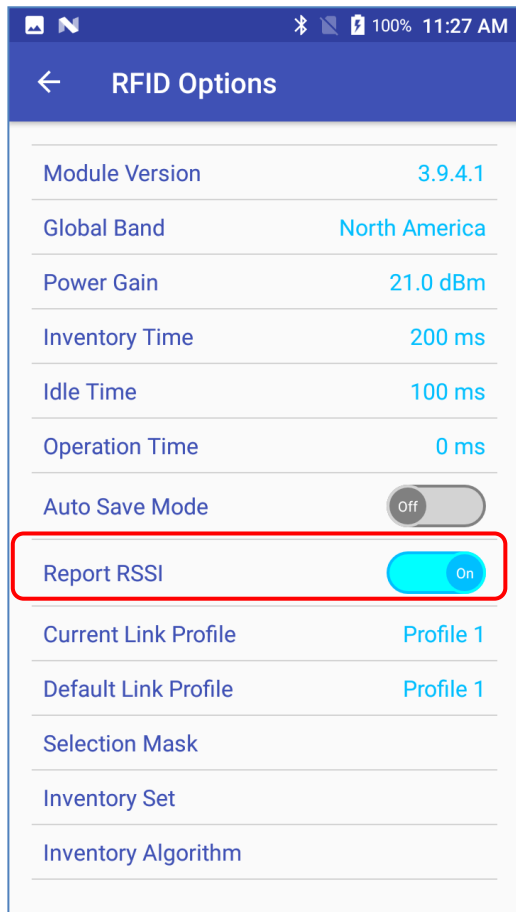
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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.8. Report RSSI

The Report RSSI option can be set to bring RSSI and Phase values in addition to RFID tag values when performing Inventory.



		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2




The RSSI value indicates the signal strength right when the device detects the tag during inventory performance.

"Phase" represents phase on frequency right when the instrument detects the tag.

Tag location can be more deeply detected using RSSI and Phase.

Since the location tracking technology of tags does not meet the purpose of this document, only the fact that there is a feature that provides tag location tracking information will be mentioned here.

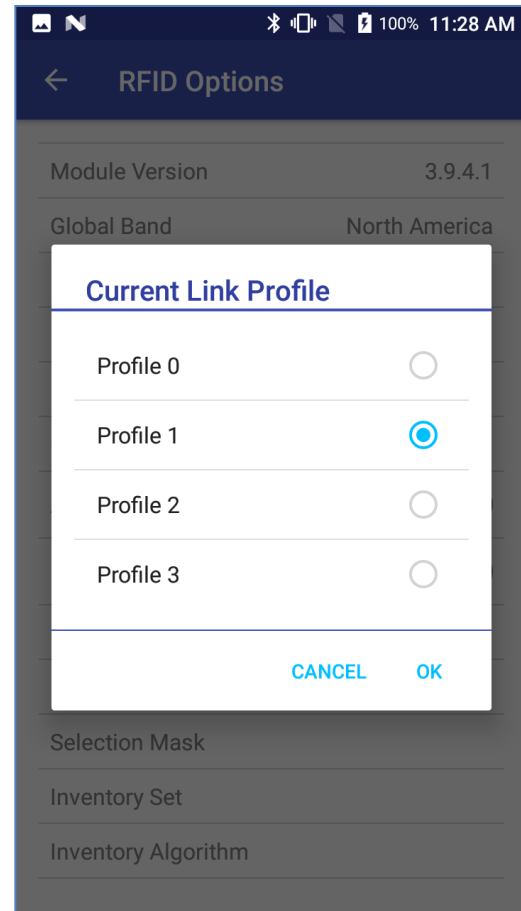
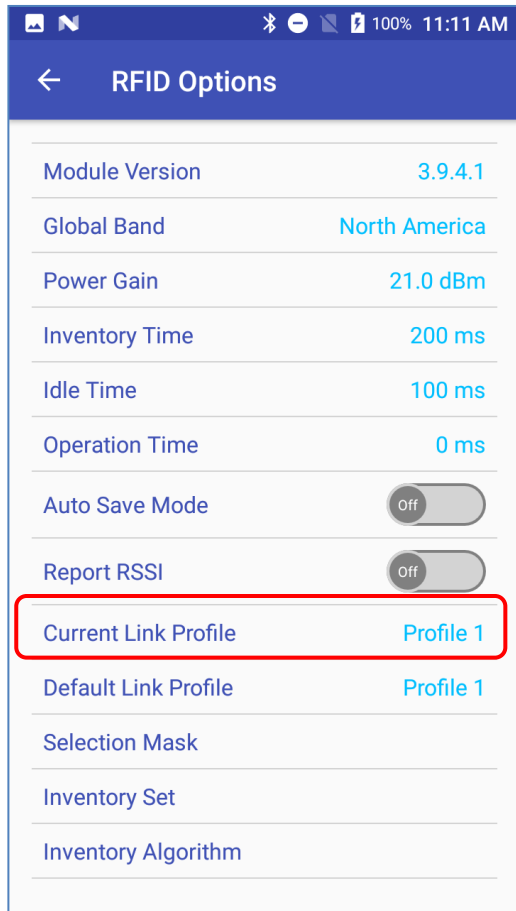
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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.9. Current Link Profile


Link Profile is an option to set Air interface of RFID UHF.

Link Profile can be set from 0 to 3.

The current link profile is reset to the default value when the power of the device (AT188N, AT188NP, AT388, ATS100, ATS200) is turned off and then on.



※ AT188N, AT188NP and ATD100 only supports Link Profile 1.

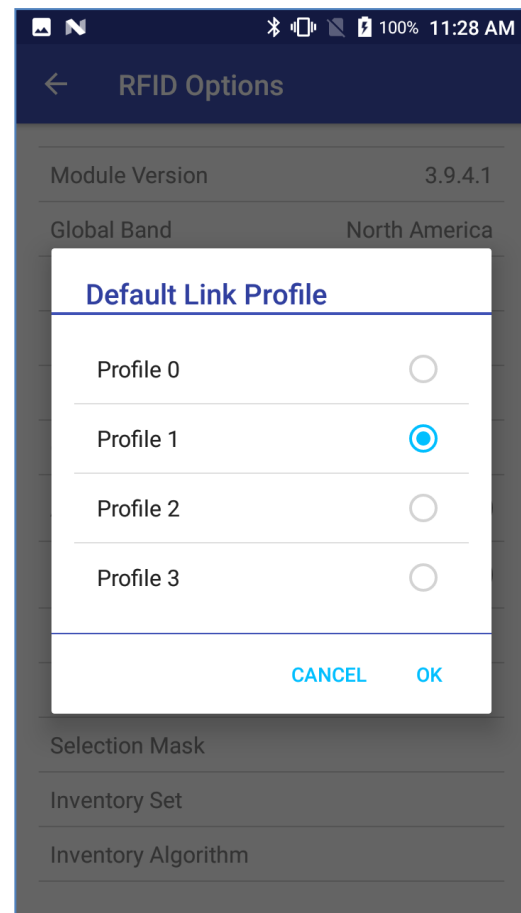
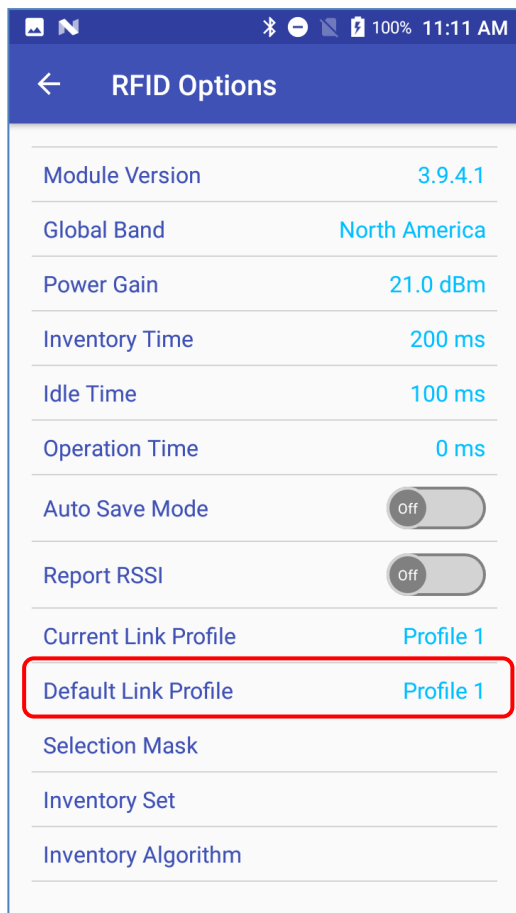
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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.10. Default Link Profile

Link Profile is an option to set Air interface of RFID UHF.


Link Profile can be set from 0 to 3.

The Default Link Profile will remain unchanged even if the device (AT188N, AT188NP, AT388, ATS100, ATS200) is turned on and off.



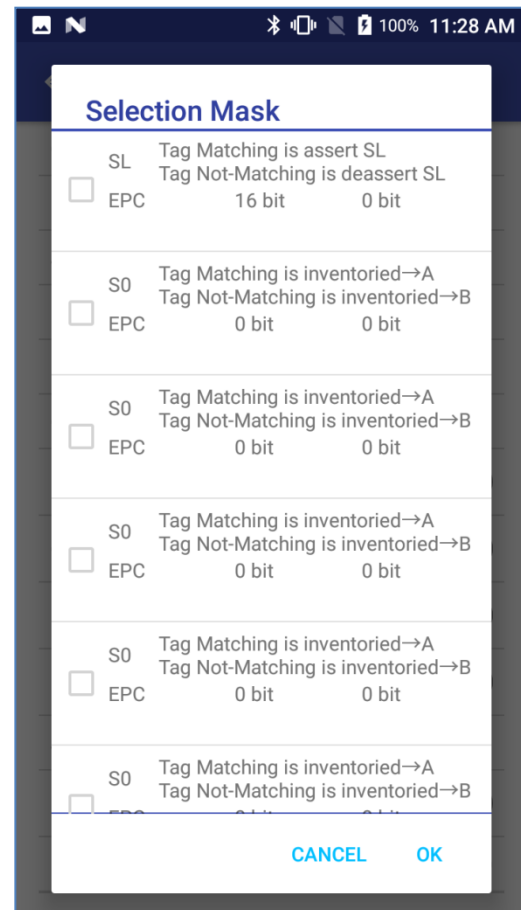
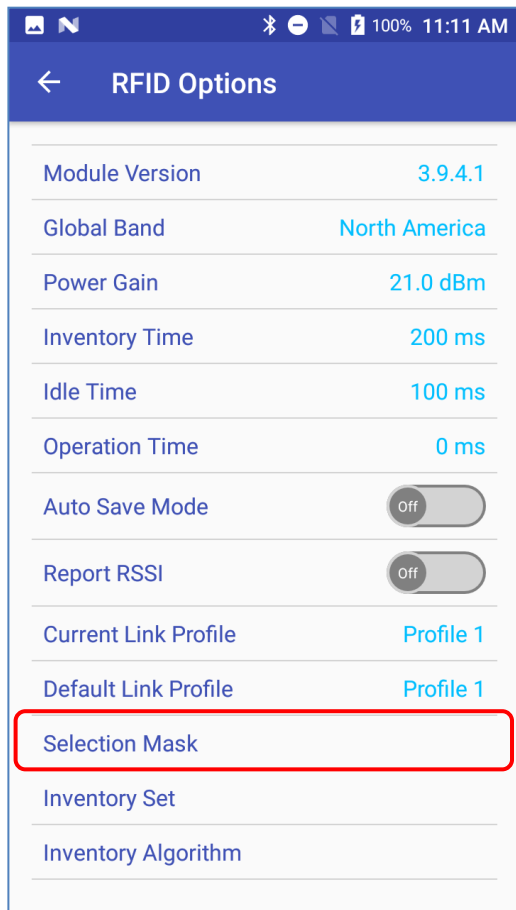
※ In order to apply the Default Link Profile to the device, the power of the equipment should be turned on / off.

The AT188N, AT188NP and ATD100 only support link profile 1.


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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.11. Selection Mask

Selection Mask setting allows only certain Tag to be activated.

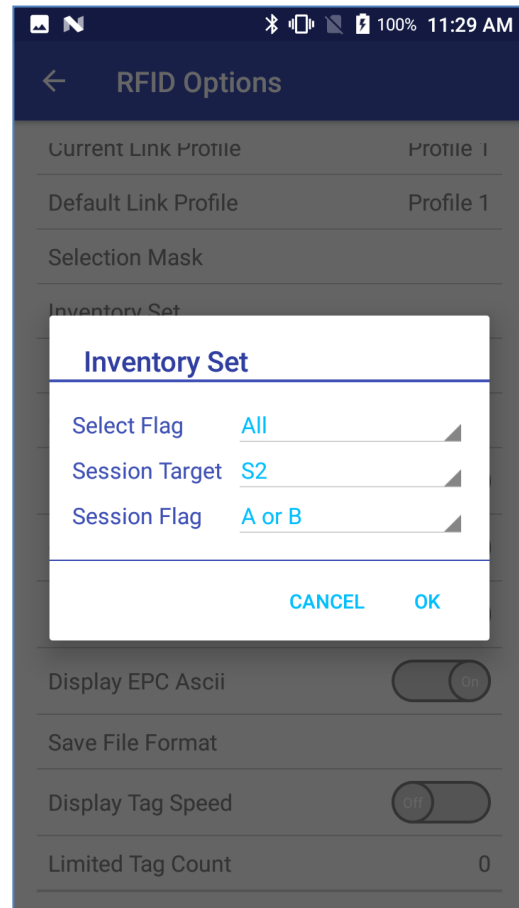
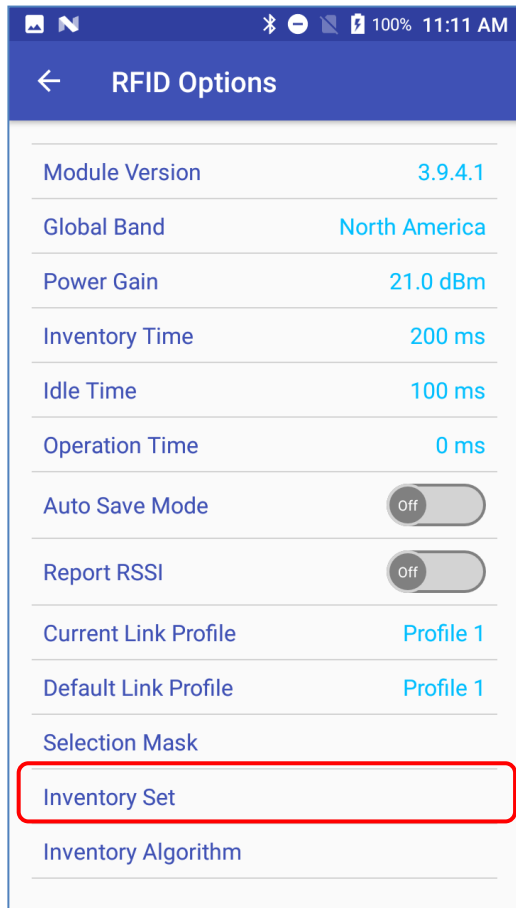



Such content is described more in Clause 3.3, Selection Mask.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

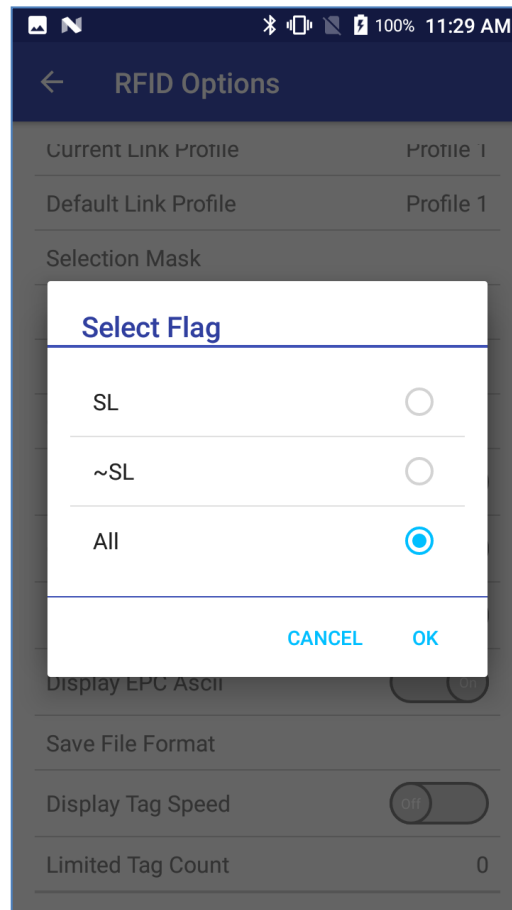
3.2.2.12. Inventory Set

With Inventory Set setting, you can select certain Tag to perform Inventory.




		ATID Reader SE Demo Guide for Android					
All That Identification		Android Demo Guide Manual				Company	ATID Co.,Ltd
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

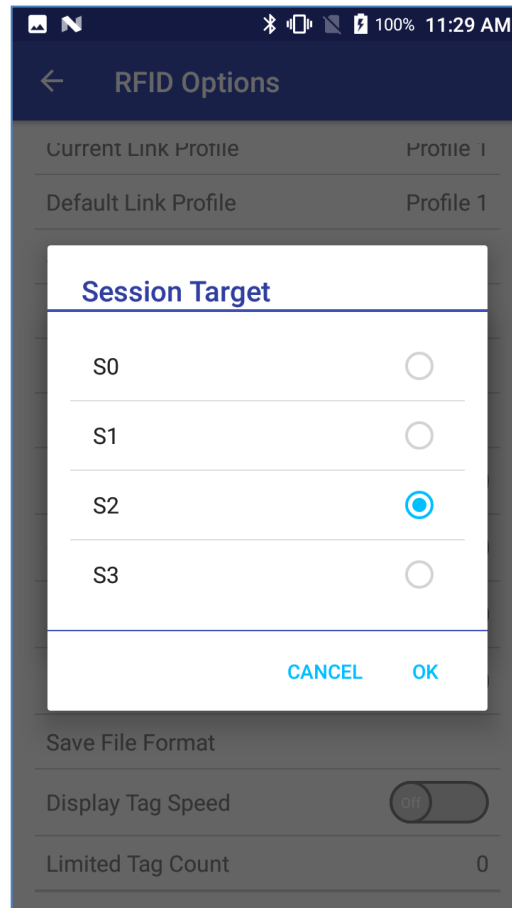
① **Select Flag** : Among Inventory list, Put your choice of Select Flag for comparison.




Select Flag	Description	Note
SL	This means that the Select Flag will only inventory the tags that are in the Assert state.	
~SL	This means that the Select Flag will only inventory the tags that are in the Deassert state.	
All	This means that you will be able to inventory tags for all states regardless of the state of the Select Flag.	

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

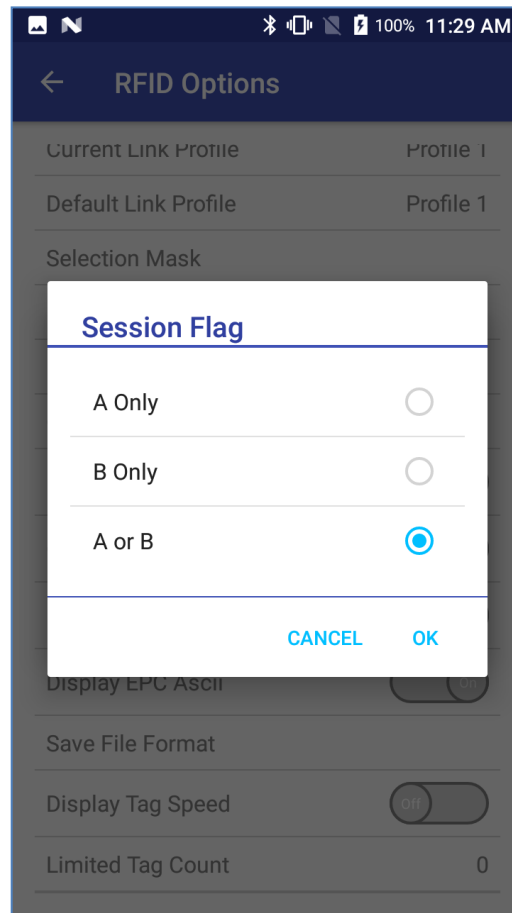
- ② **Session Target** : Among Inventory list, This allows you to select the Session Flag, used to compare with Session Flag state.




Session Target	Description	Note
S0	This means Session Flag for checking the state is S0.	
S1	This means Session Flag for checking the state is S1.	
S2	This means Session Flag for checking the state is S2.	
S3	This means Session Flag for checking the state is S3.	

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

- ③ **Session Flag** : Among Inventory list, choose Session Flag state for comparison.

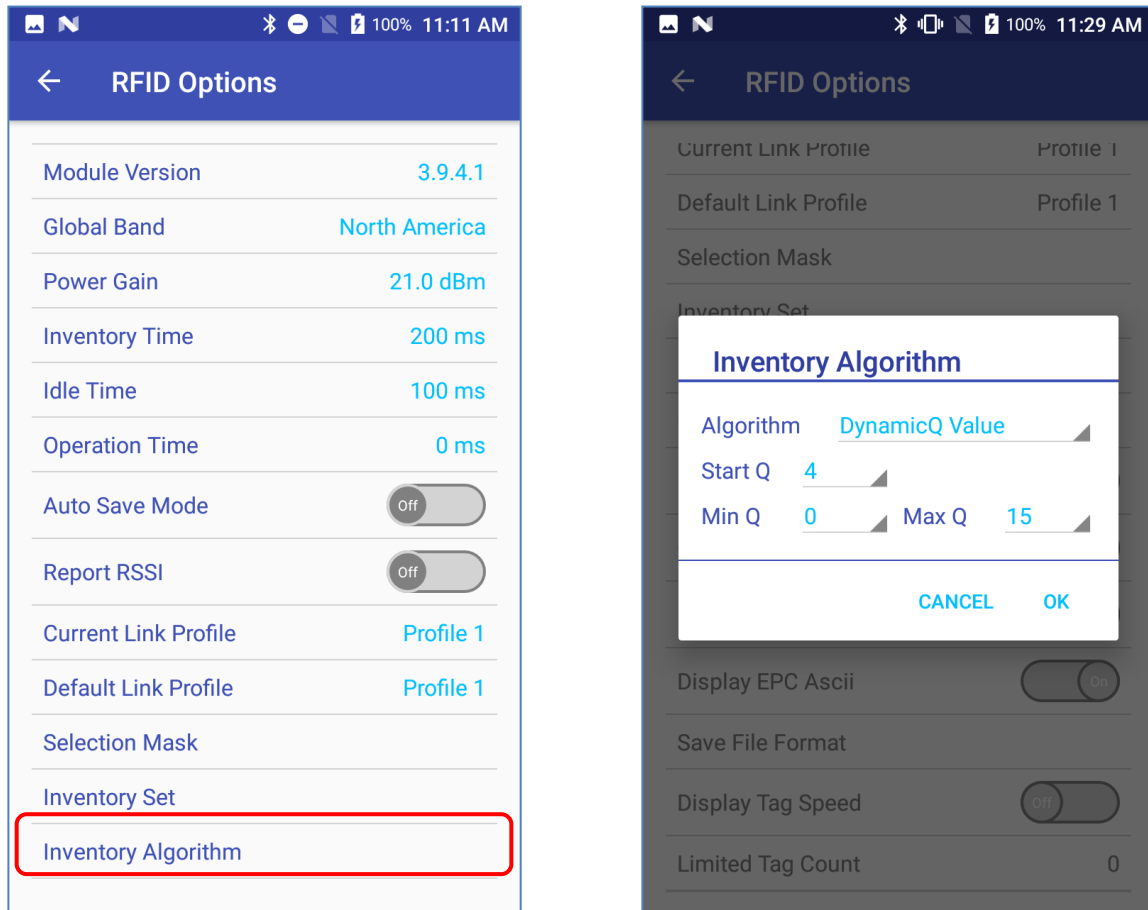


Session Flag	Description	Note
A only	This means that only tag with A Session Flag will be inventoried.	
B only	This means that only tag with B Session Flag will be inventoried.	
A or B	This means tag will be inventoried regardless of Session Flag state (A/B).	


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

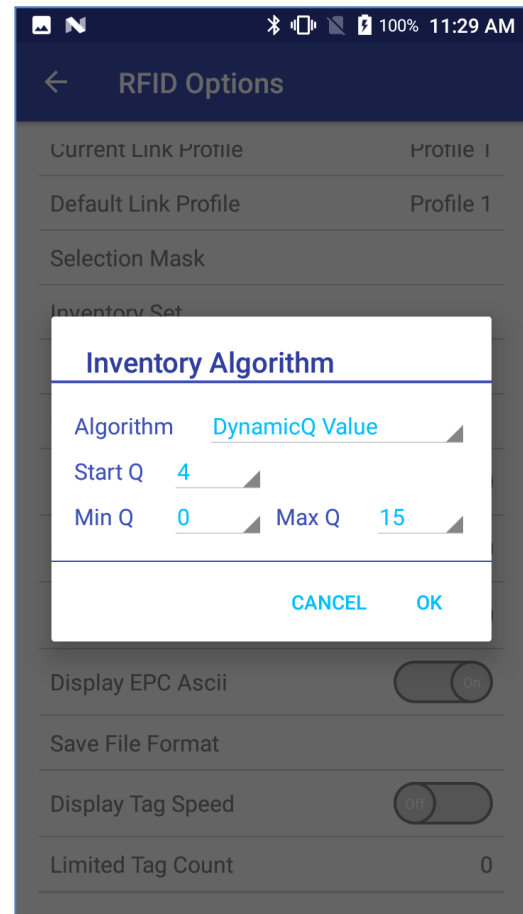
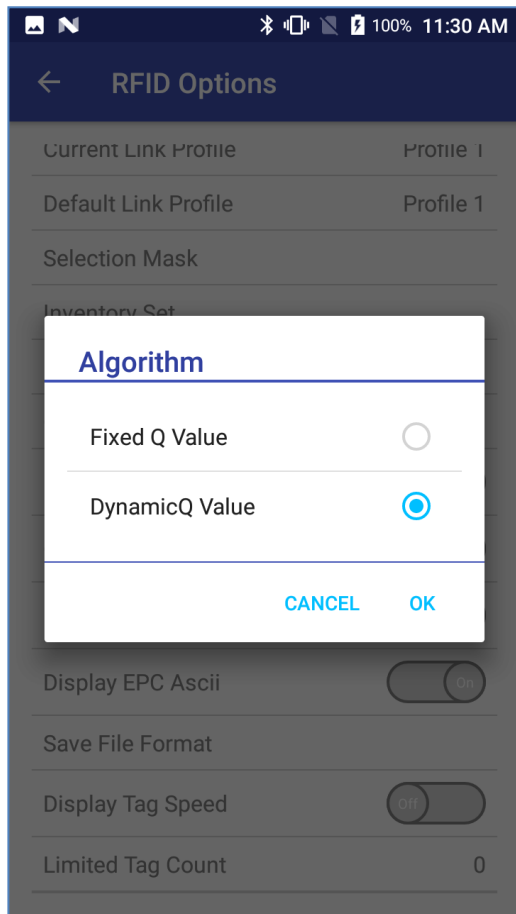
3.2.2.13. Inventory Algorithm

The Inventory Algorithm can set an algorithm for inventorying tags in RFID UHF.




Inventory Algorithm can set algorithm currently used by RFID UHF module, Start Q value, Minimum Q value, and Maximum Q value.

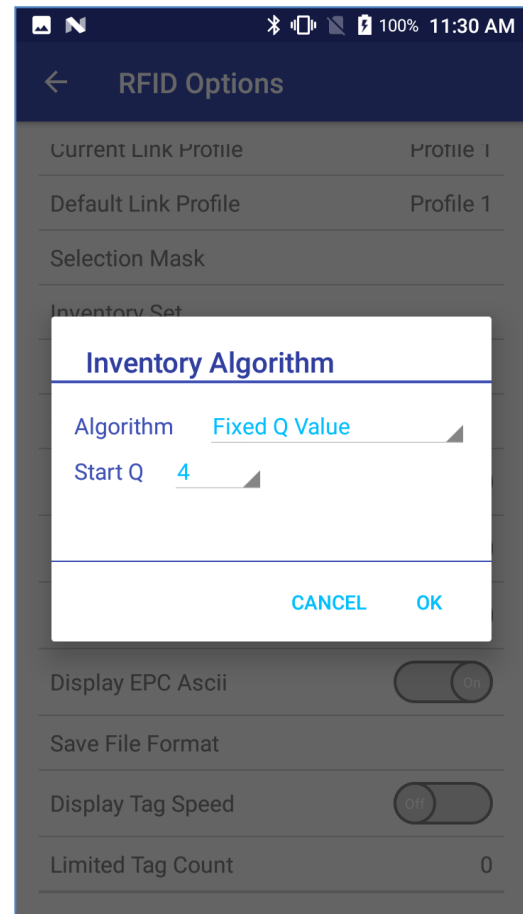
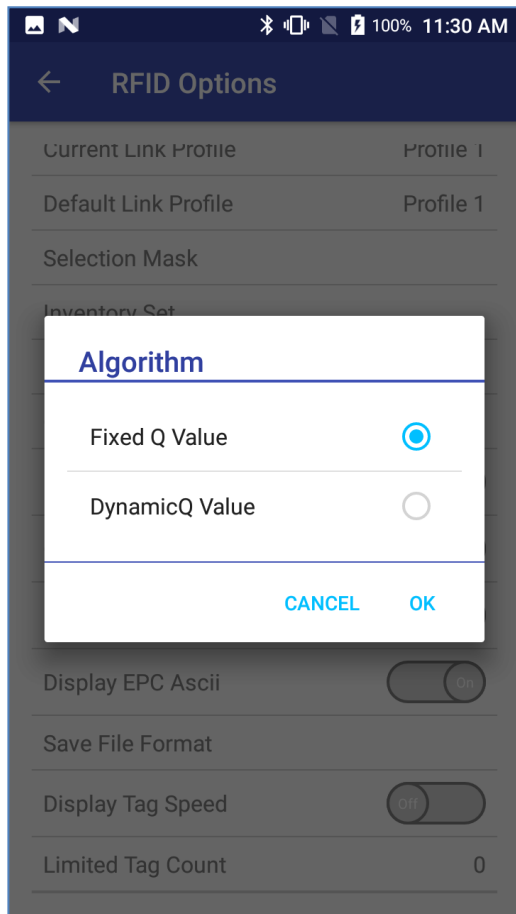
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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2




The algorithm can choose an algorithm that uses a fixed Q value, or an algorithm that uses a variable Q value.

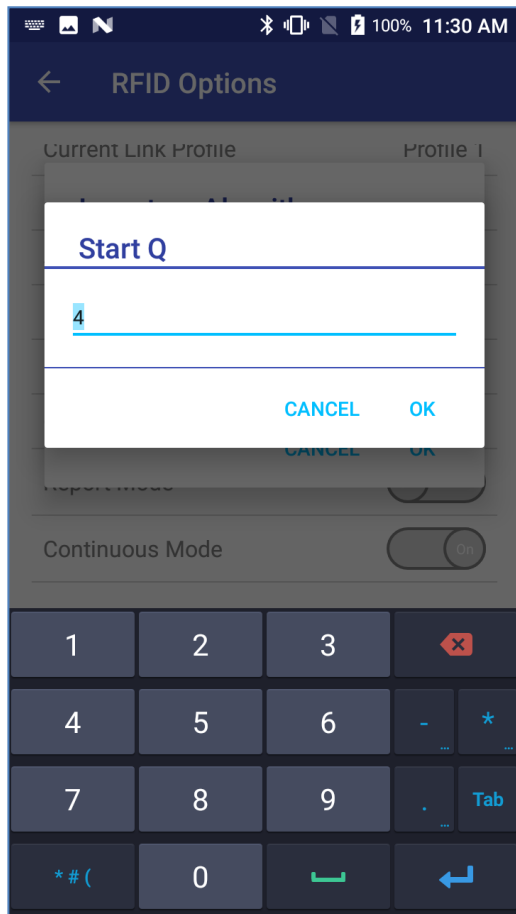
When selecting Algorithm as Variable Q, you can select the values for Start Q, Min Q, and Max Q.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2




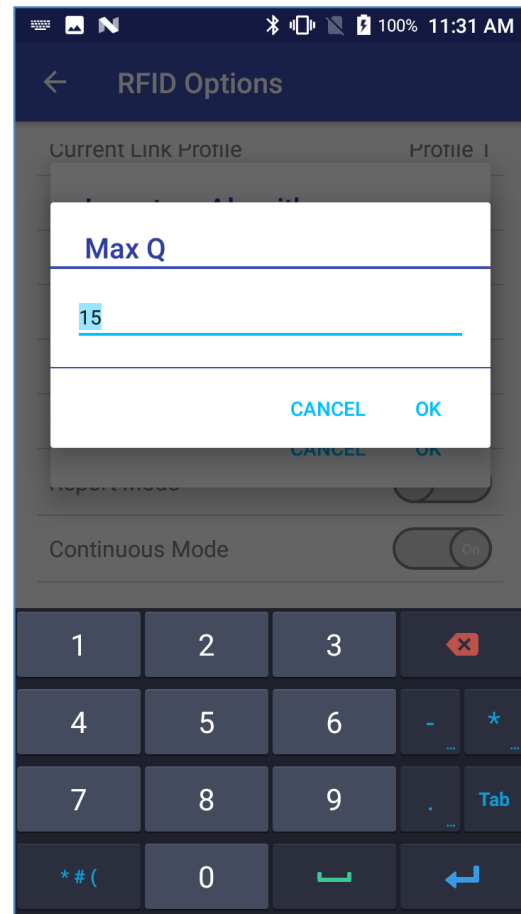
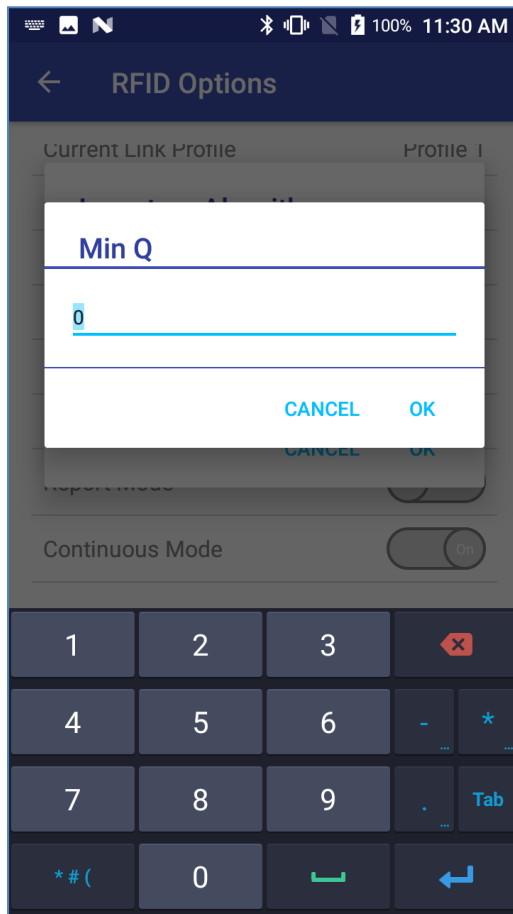
When selecting Algorithm as Fixed Q, you can select the values for Start Q.

 All That Identification		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2




Start Q value can be set from 0 to 15.

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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

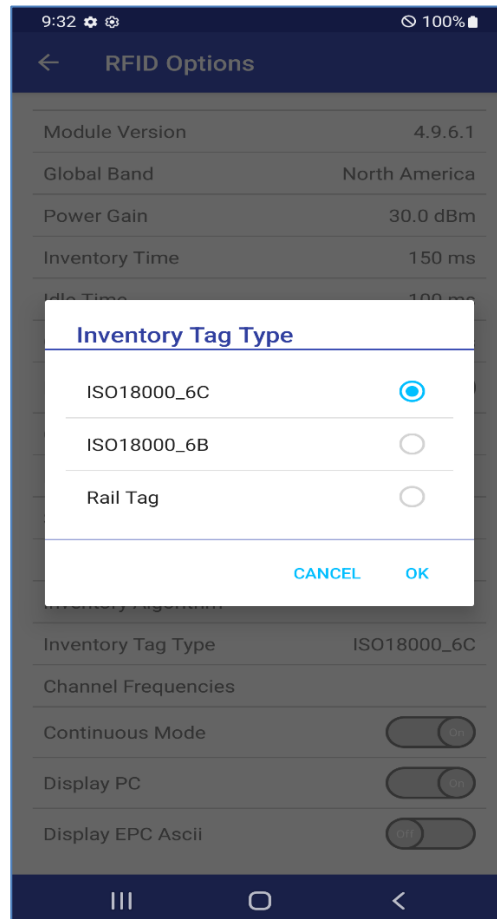
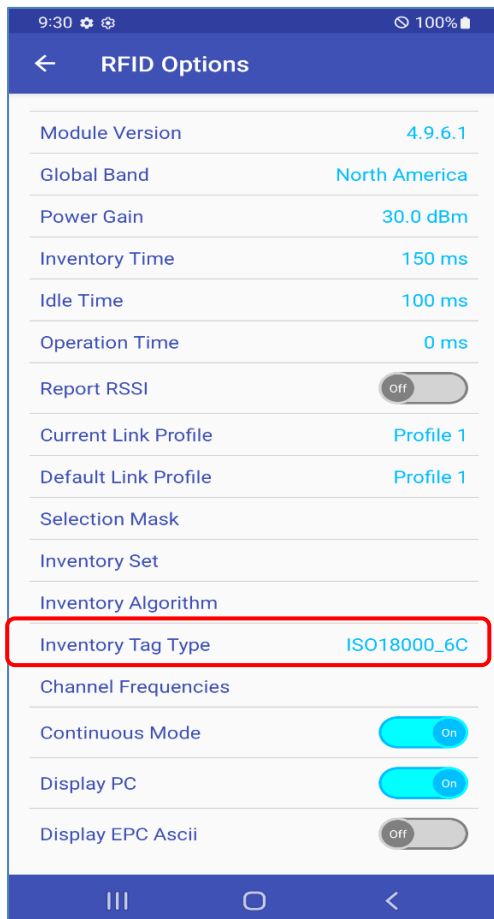


Min Q value is the minimum Q value, which can be any value less than the value from 1 to Max Q.

Max Q value is the maximum Q value, which can be any value more than the value from Min Q to 15.


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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.14. Inventory tag-type



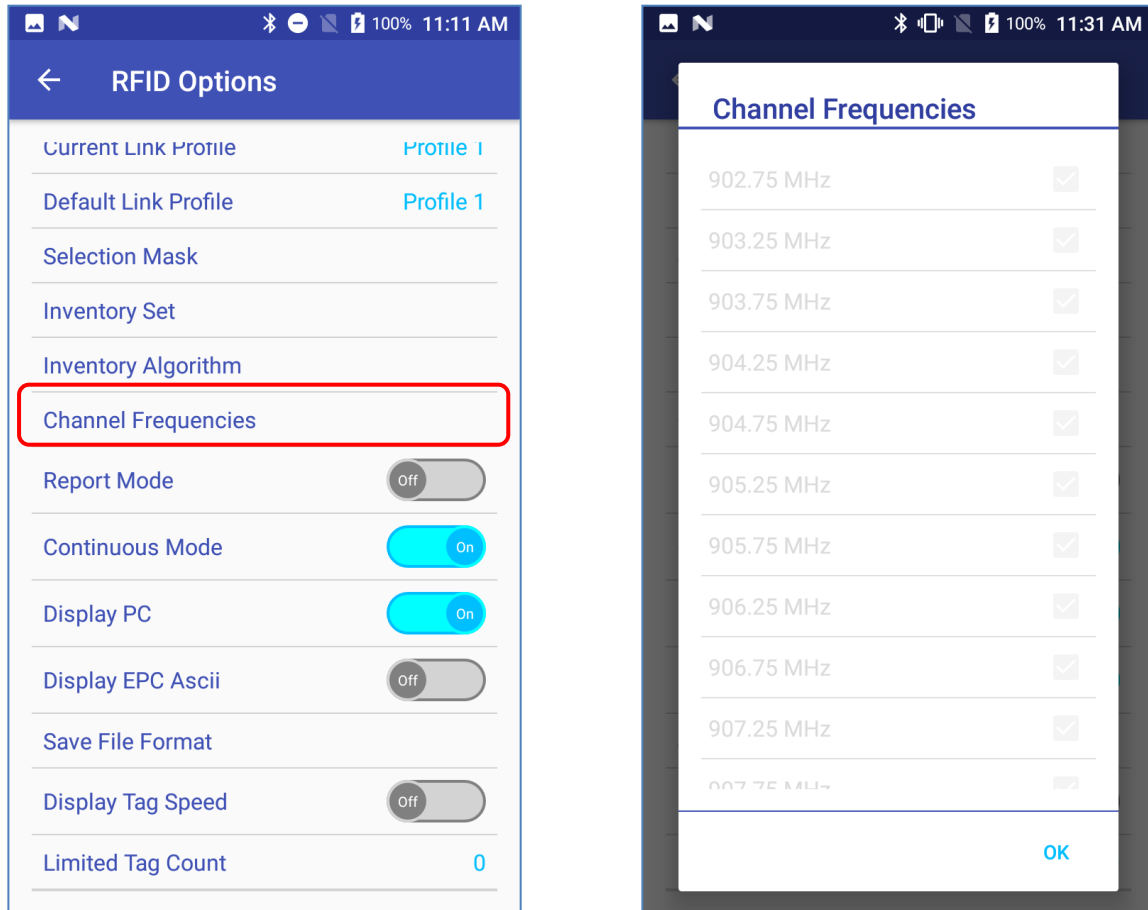
Note:

- default tag type is ISO18000_6C
- Inventory tag-type settings will not reset to default upon reboot. (** last settings will keep persists until change manually).


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.15. Frequency

With Frequency, you can search the frequency table according to the country set in the RFID UHF module.

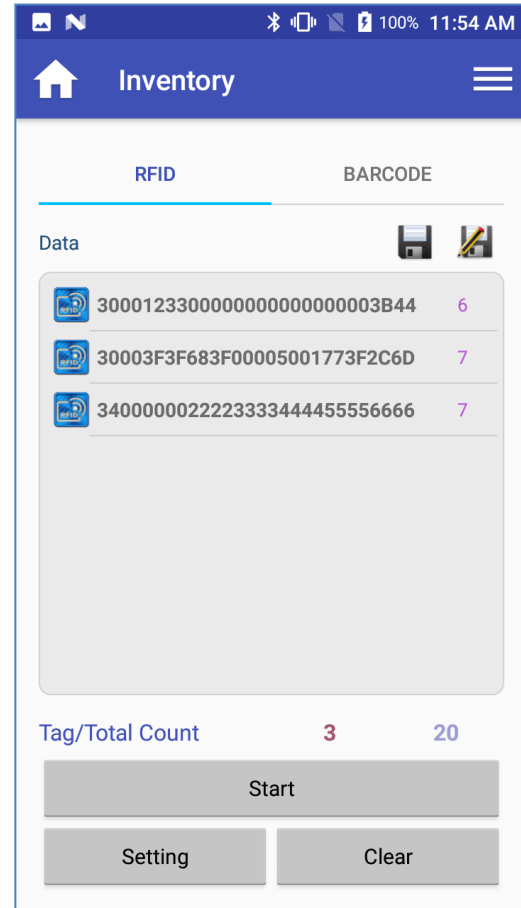
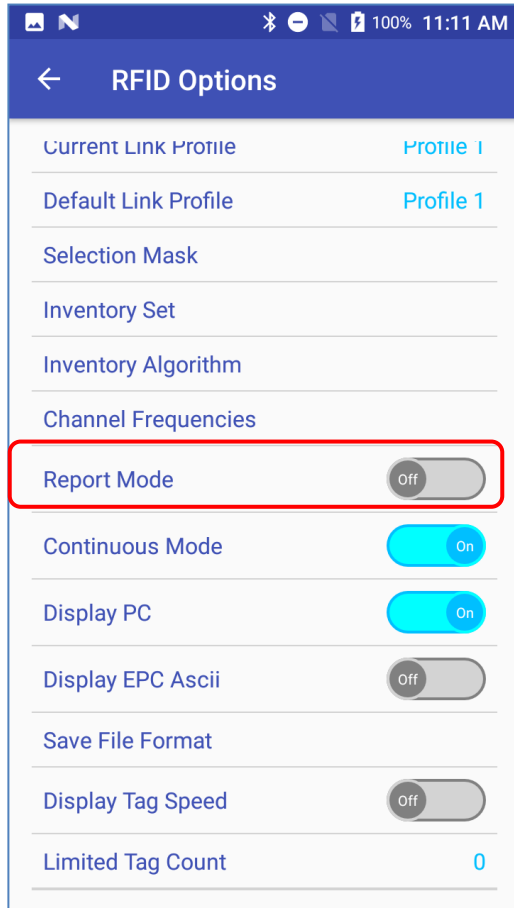



Whether or not to use it in the frequency table can be decided by looking at the check box on the right.

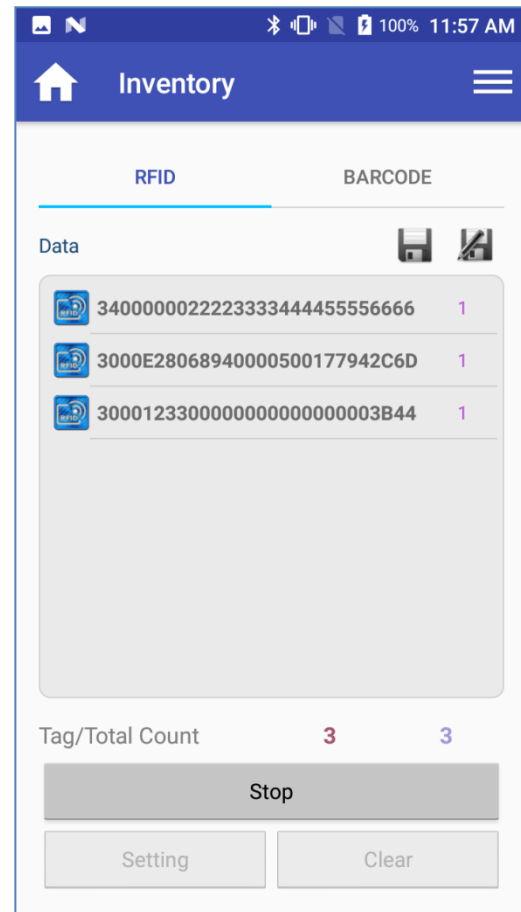
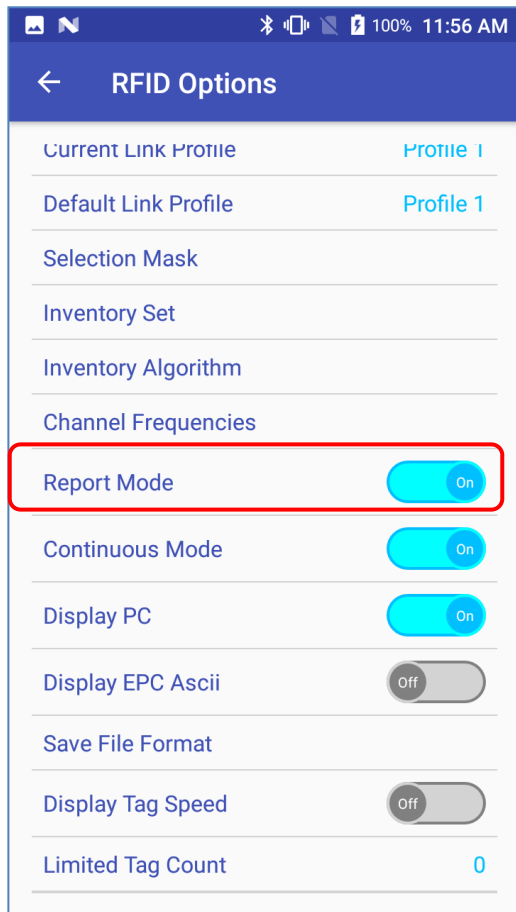
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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.16. Report Mode

The Report Mode option can be set to read the same RFID tag only once per Inventory.




		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2



If Report mode is On, the same RFID tag is read once every Inventory.
In the second Inventory, the same RFID tag number is displayed as 2.

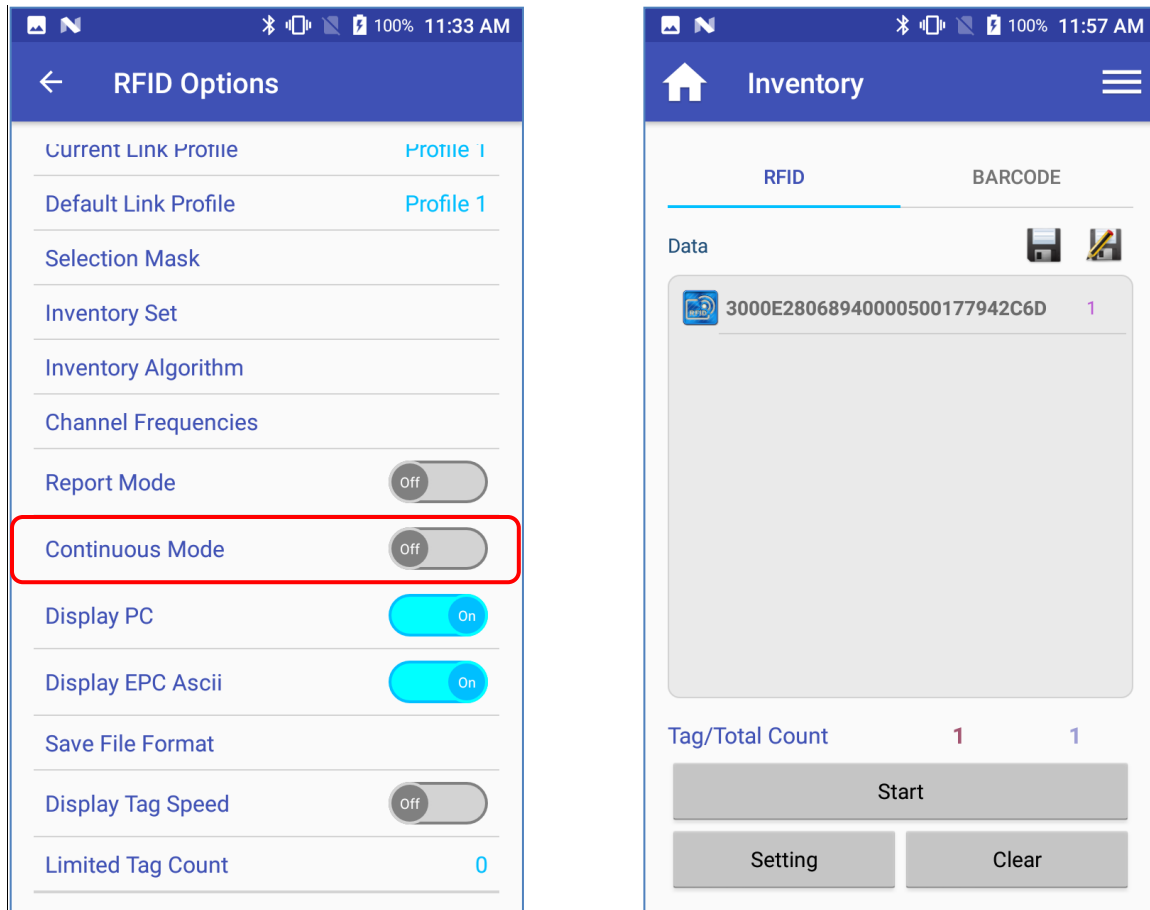
※ If you do not want to read the RFID tag read once in Inventory, you must turn on Auto Save Mode together.

※ This function is not support in ATS100, ATS200 and ATD100.


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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

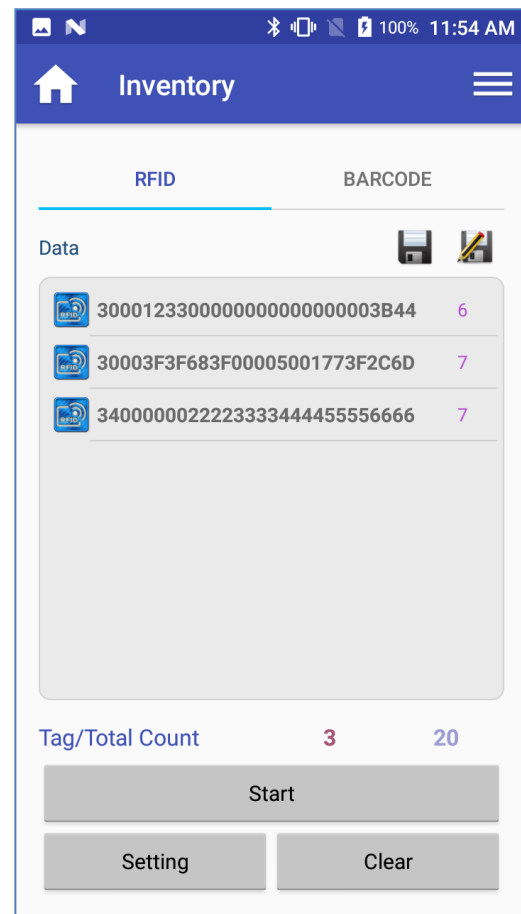
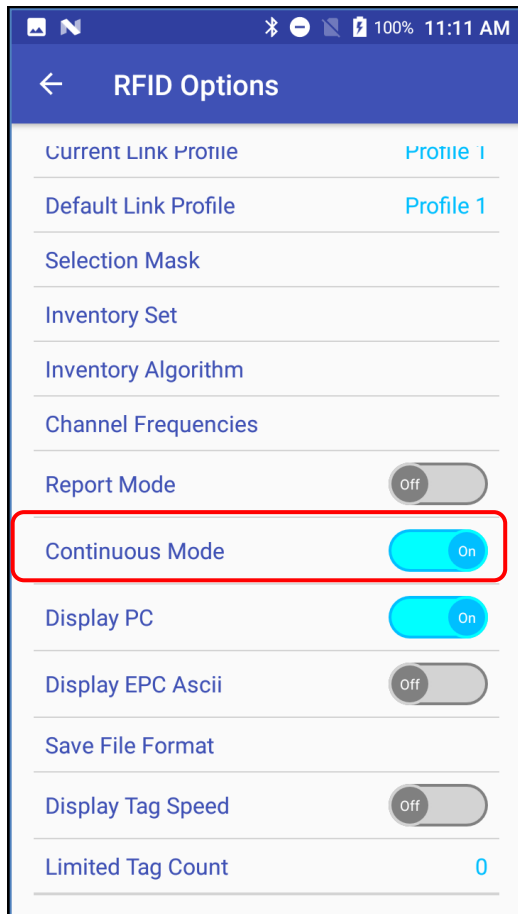
3.2.2.17. Continuous Mode

The Continuous Mode option allows you to set whether to read the RFID tag once and keep reading it when you perform an inventory.




When Continuous Mode is Off, the RFID tag is read once and the RFID tag is automatically stopped when Inventory is executed.

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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

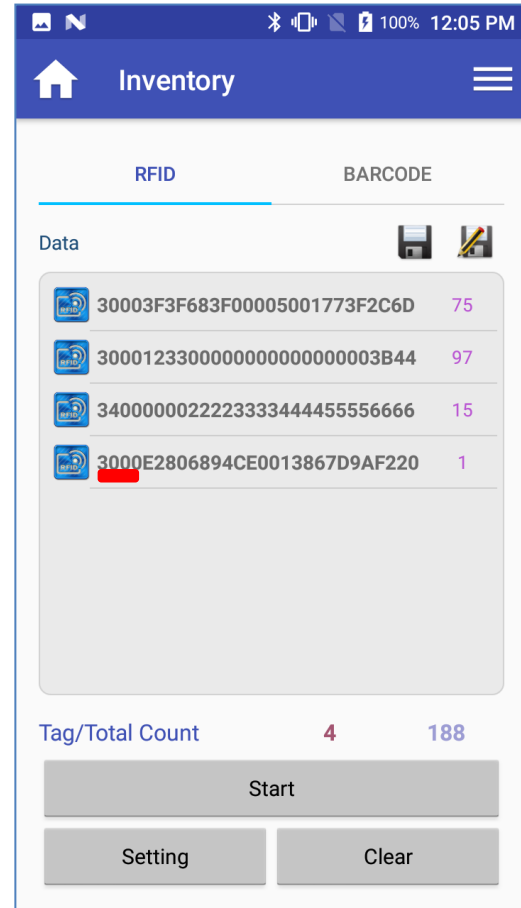
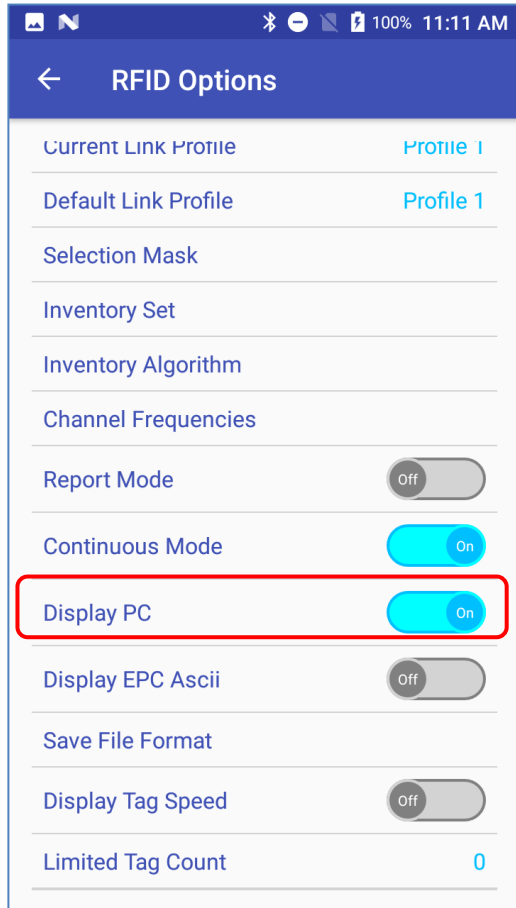


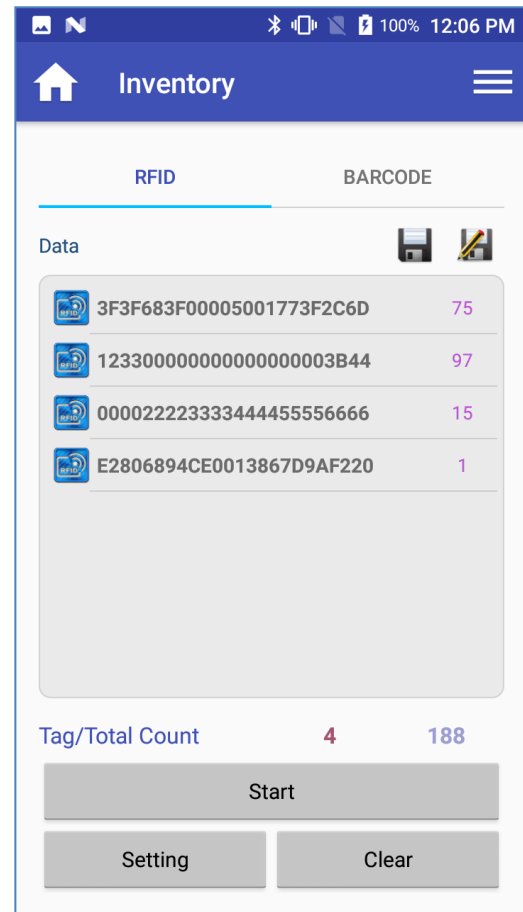
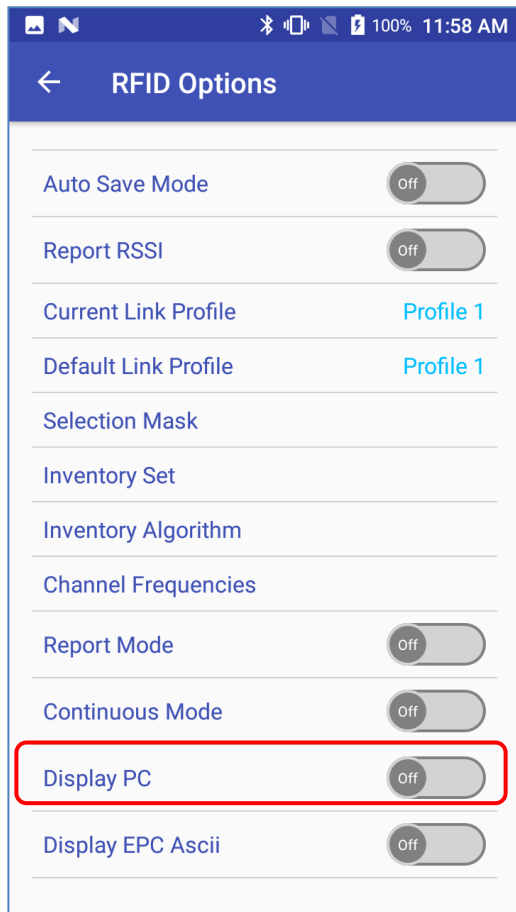
If "Continuous Mode" is On, Inventory will continue to read the RFID tag until the "Stop" button is touched.


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.18. Display PC

Display PC sets whether to display PC value of EPC data when inventorying RFID UHF module.

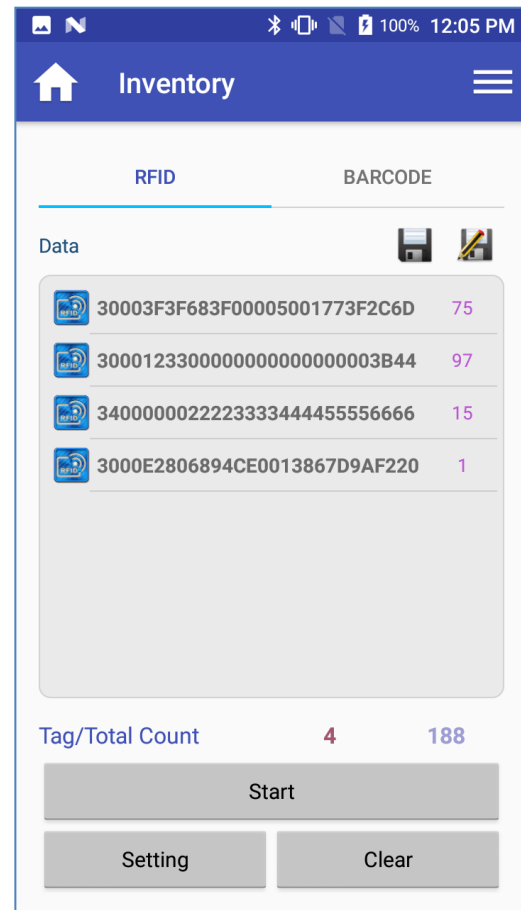
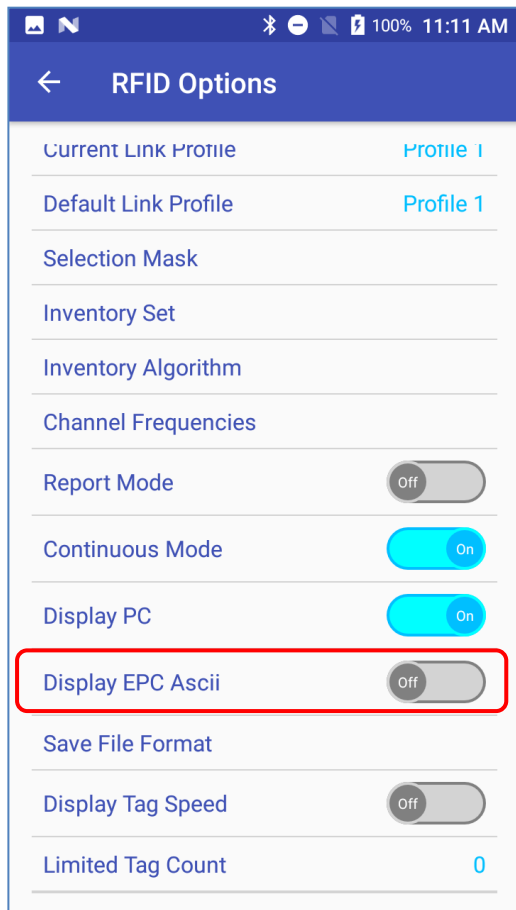


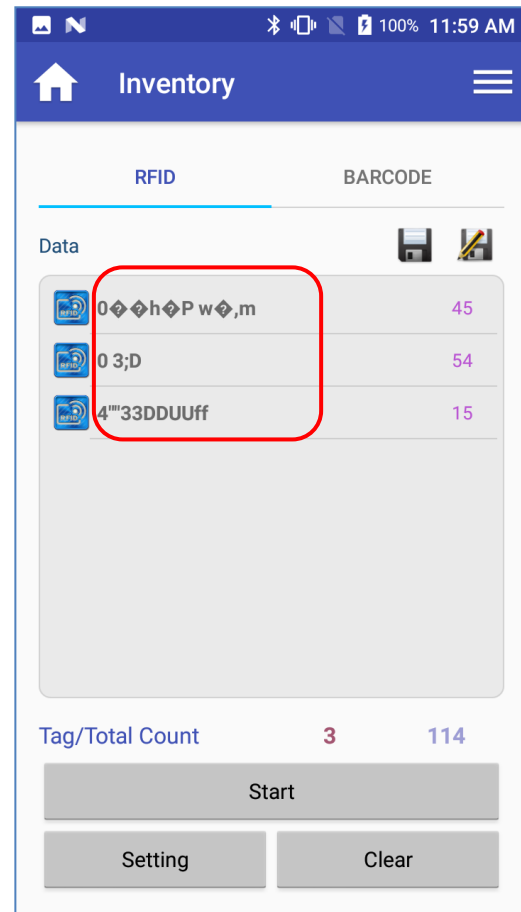
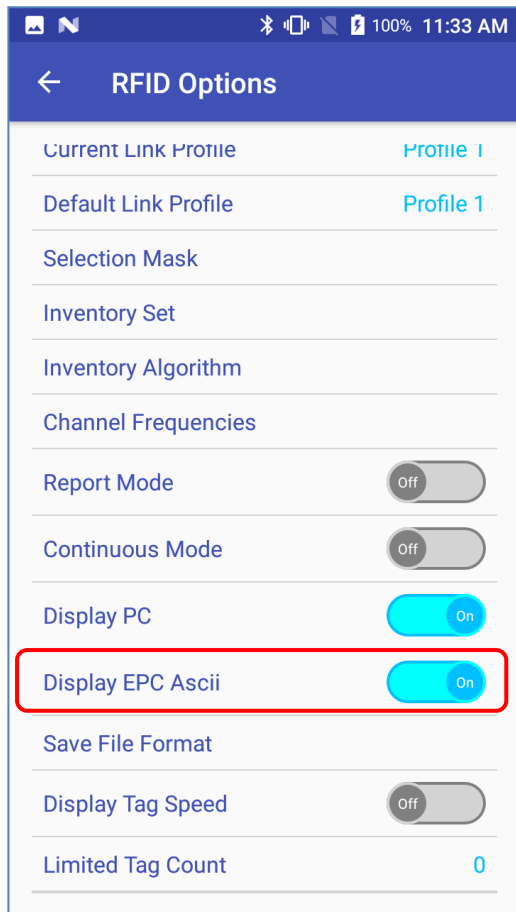



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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.19. Display EPC Ascii

Display EPC Ascii sets whether to display EPC data as ascii code when inventorying RFID UHF module.

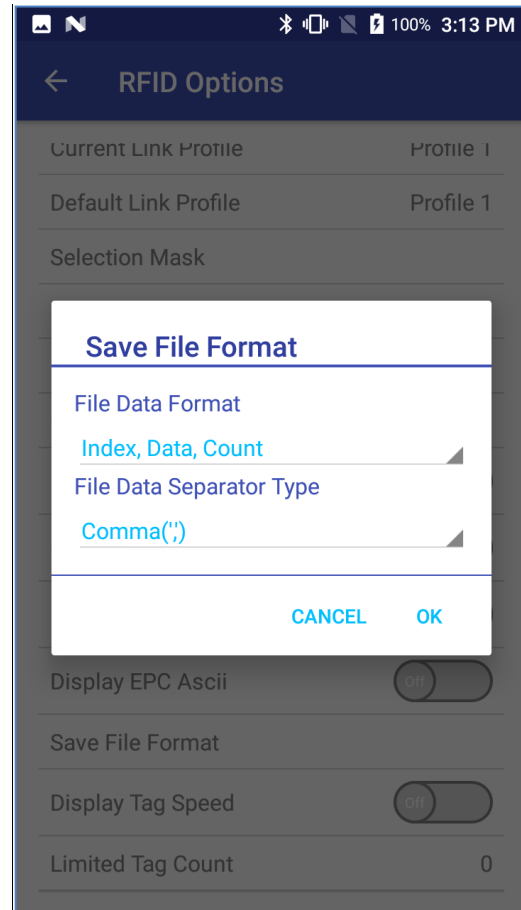
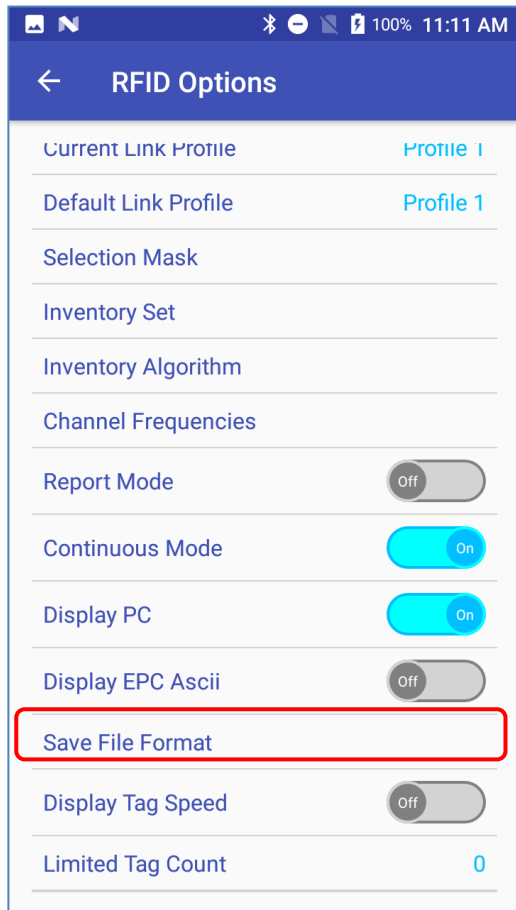





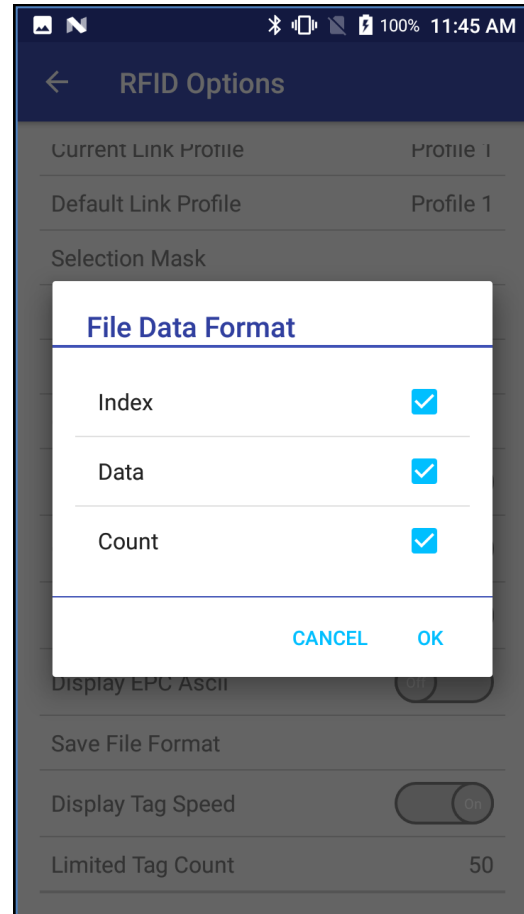
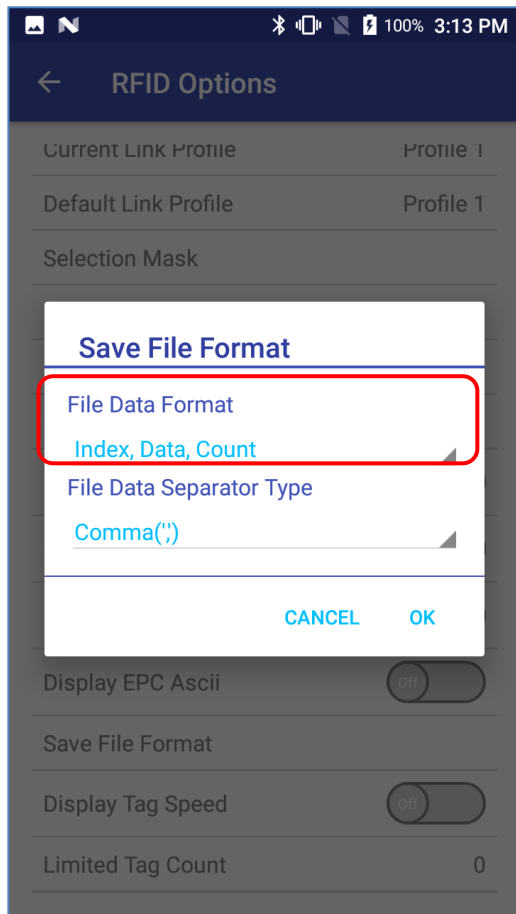
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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.20. Save File Format


Save File Format specifies the format when saving the Inventory View data to a file.

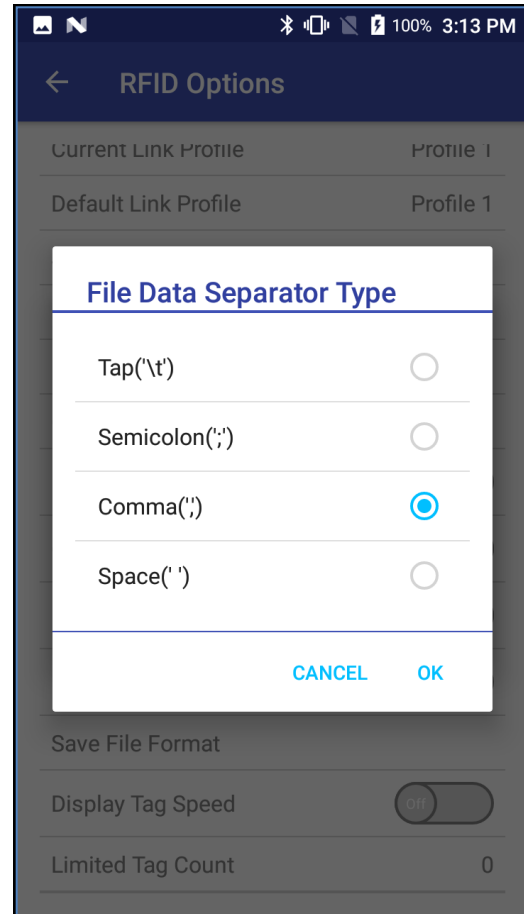
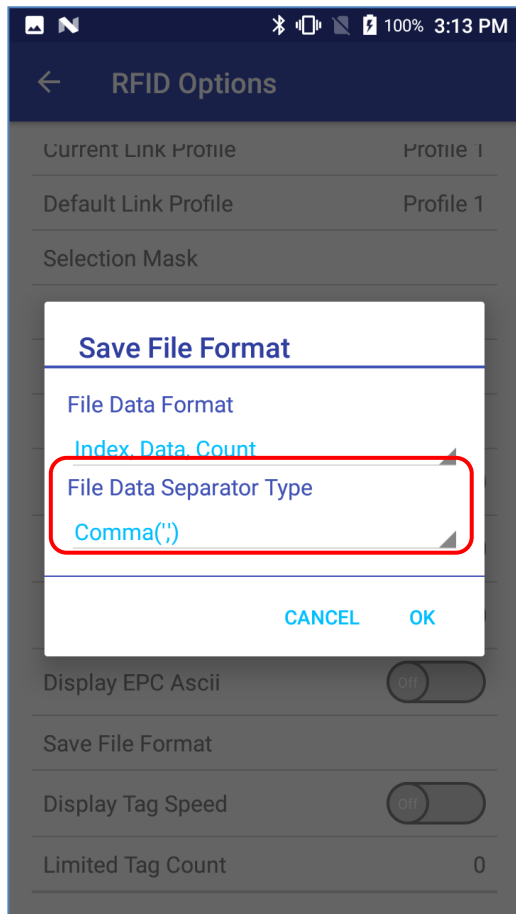


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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2




File Data Format selects data to be saved in Inventory View.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

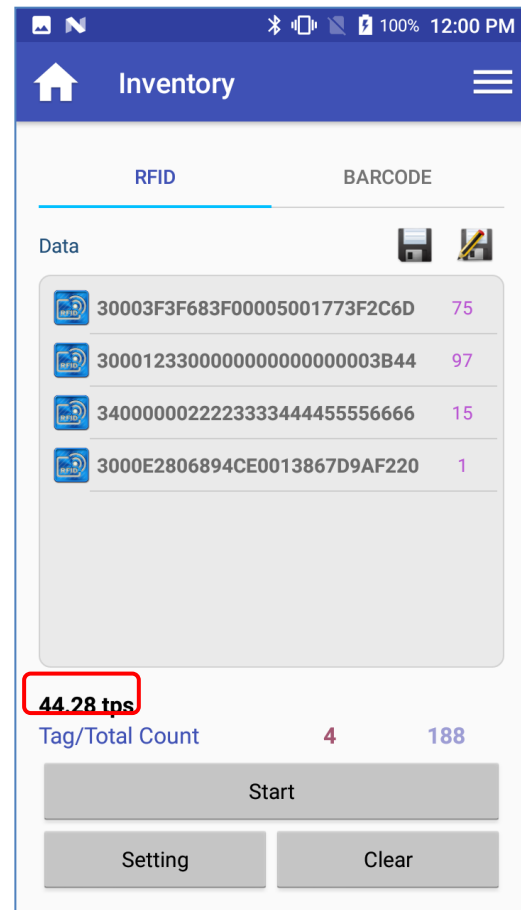
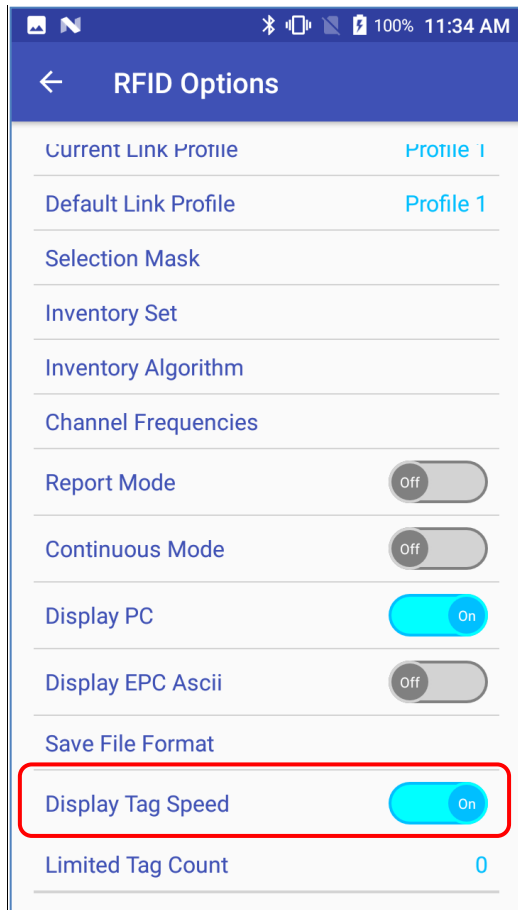



The File Data Separator Type specifies the character used to distinguish the data from the data when the Inventory View data is saved to a file.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.2.21. Display Tag Speed

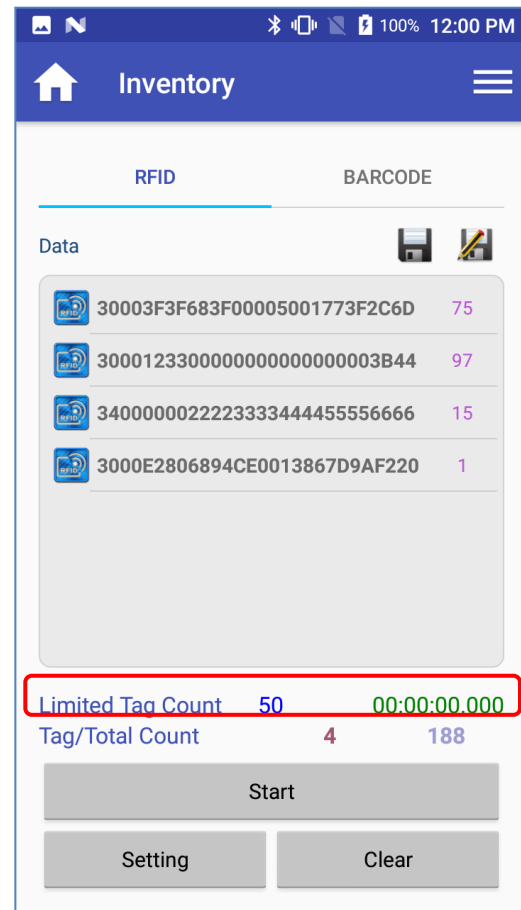
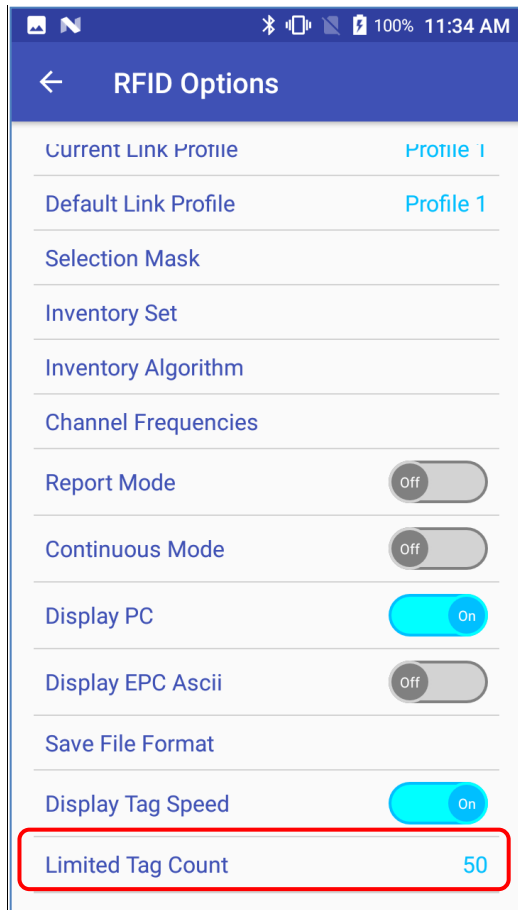
Display Tag Speed displays the number of tags read per second when inventorying RFID UHF modules.



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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.2.2.22. Limited Tag Count

Limited Tag Count will run RFID Inventory until the specified number of tags are read.



When the settled Tag is finished being read, Inventory is stopped and the time spent is displayed

When Limited Tag Count is 0, RFID Inventory keeps running and Limited Tag Count is not displayed in Inventory View.


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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.3. How to RFID inventories and reading barcode

In the inventory screen, Operation Mode decides which action the device will perform from RFID UHF Inventory, Barcode Reading, and Key Event Reading.

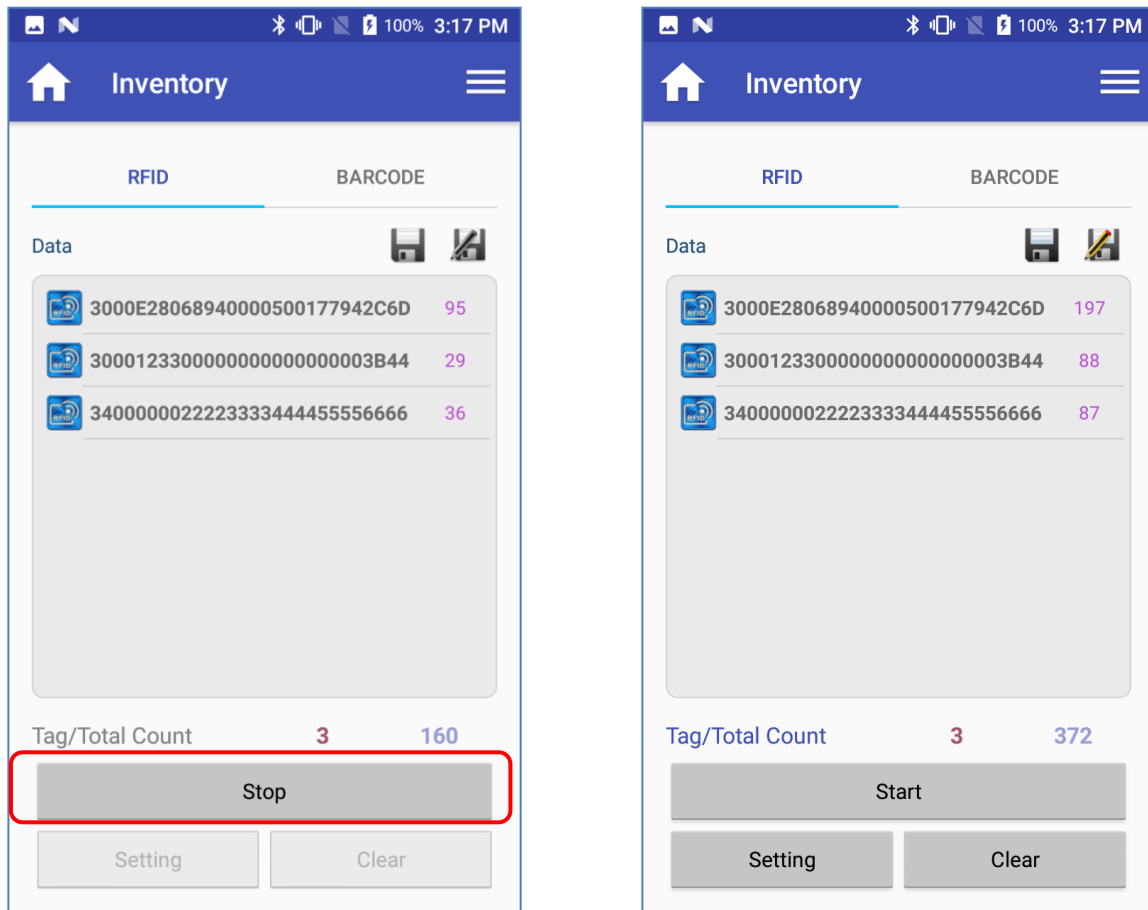
Operation Mode can be operated by touching on the Inventory screen, but it can be operated on the device. When operated on the device, the selection is reflected on the Inventory screen, and when operated on the Inventory screen, it is reflected to the device.



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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

If Operation Mode is selected, you can start the operation by touching the "Start" button.

If Operation Mode is RFID, it performs the operation to inventory the RFID tag.




When Inventory starts, the "Start" button changes to "Stop", and you can stop Inventory by touching the "Stop" button.

By default, Inventory reads the tags consecutively and prints them on the screen.

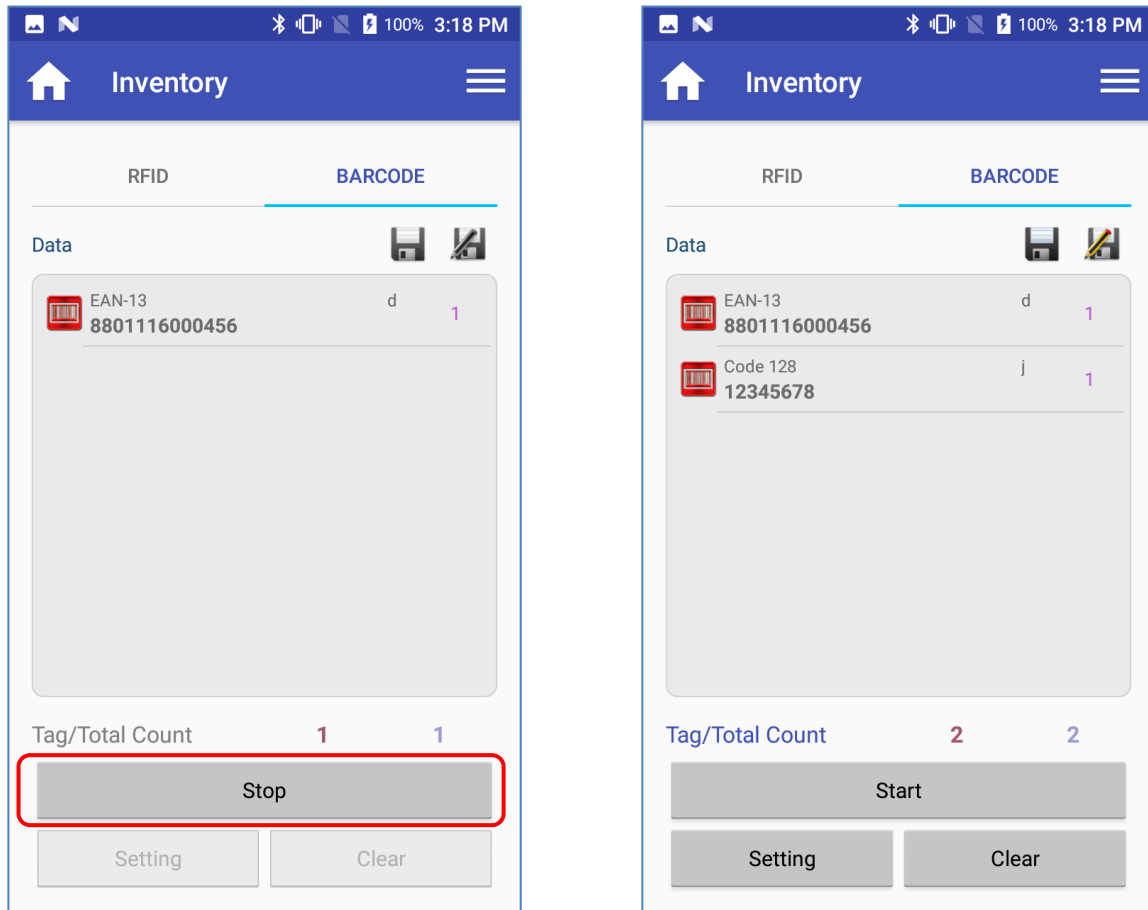
As for the screen display, the tags with same value will appear in the list as one. In the right of the tag list, the number of tags read is shown.

Tag / Total Count displays the number of tags displayed in the list, and in the right. the number of tags read from the beginning shown.

If you have a large number of tags loaded, you can drag your finger to scroll.


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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

If Operation Mode is Barcode, you can start Barcode Reading by touching "Start" button.



When Barcode Reading starts, "Start" button is changed to "Stop" button just like Inventory, and Barcode Reading can be stopped by touching "Stop" button.

In the case of barcode reading, barcode reading is automatically stopped when the barcode is read.

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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.4. How to reading Key Event


In the Inventory screen, Operation Mode lets you choose the device's action from RFID Inventory, Barcode Reading, and Key Event Reading.

Operation Mode can be operated by touching on the Inventory screen, but it can be operated on the device. When operated on the device, the selection is reflected on the Inventory screen, and when operated on the Inventory screen, it is reflected to the device.

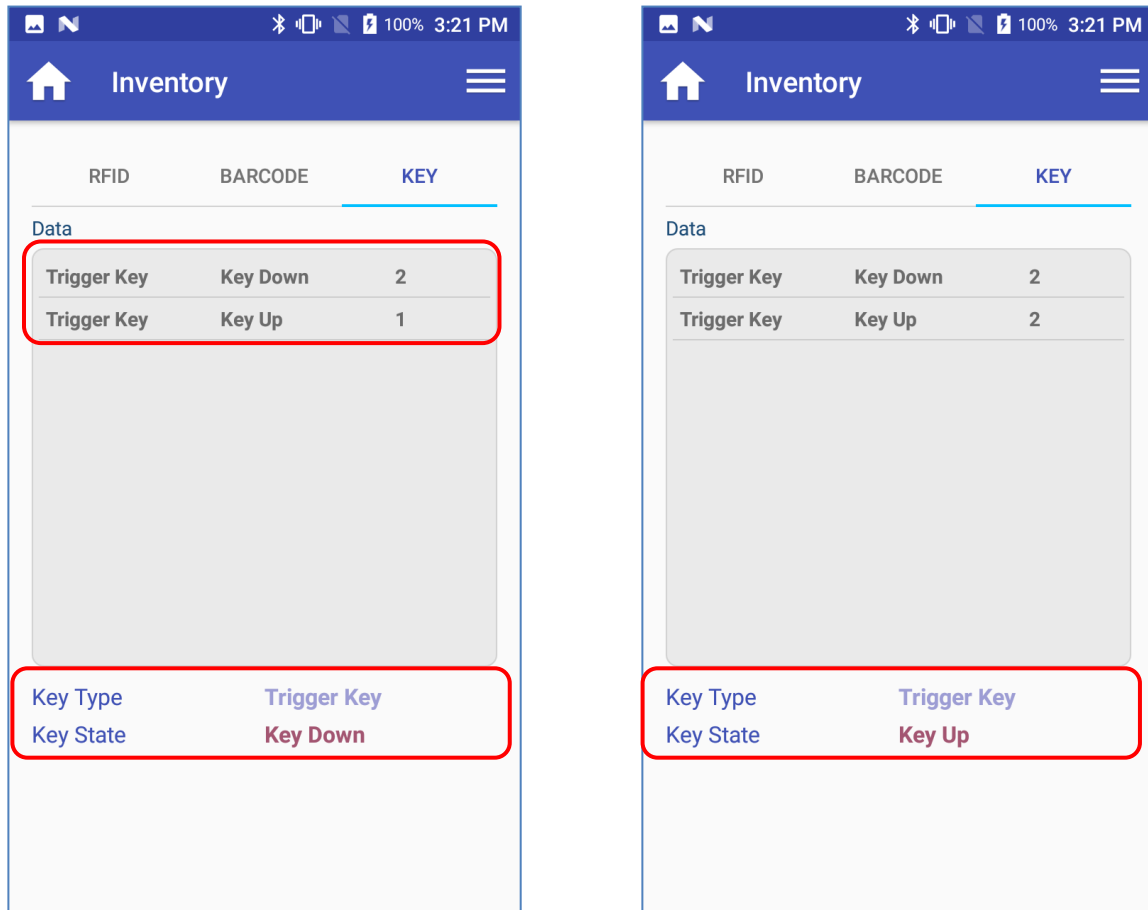
※ Only supported by ATS100 and ATS200




- ① **Data List** : Displays Key Event data read with the device.
- ② **Key Type** : Displays the type of Key.
- ③ **Key State** : Displays the Up/Down state of the Key.

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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

If Operation mode is Key, Press Trigger button to start reading (Among the all Keys of the device)



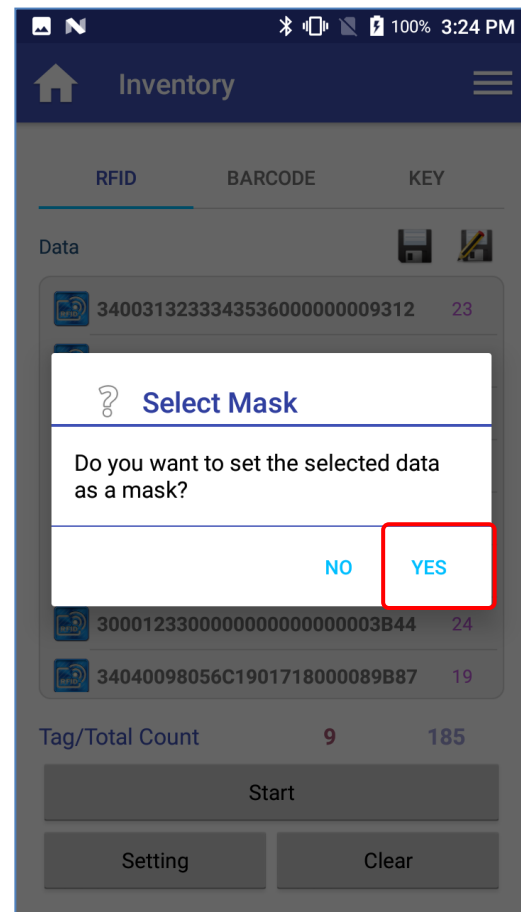
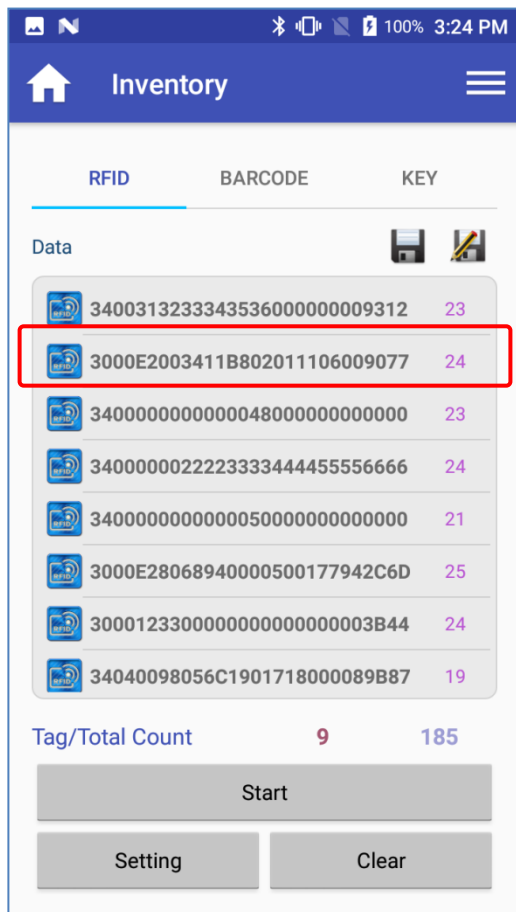
The number and the status of Up/Down of the Trigger button are displayed.

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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.5. How to read barcode and write them to tags


Press Start button to Inventory RFID Tag. This allows you to search for the tag you want to save barcode with, on inventory screen.

Touch and hold RFID tag (for about 3 seconds) of the barcode data you want to save. Then select it as Selection Mask.



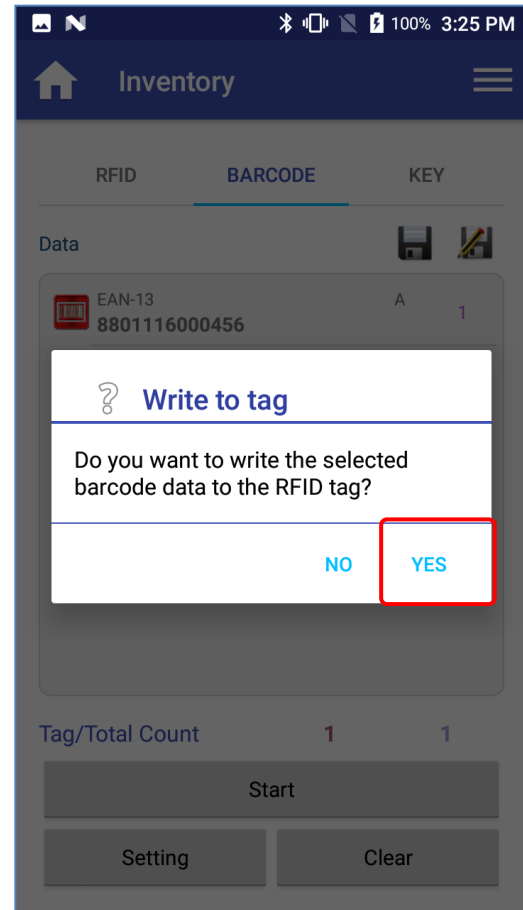
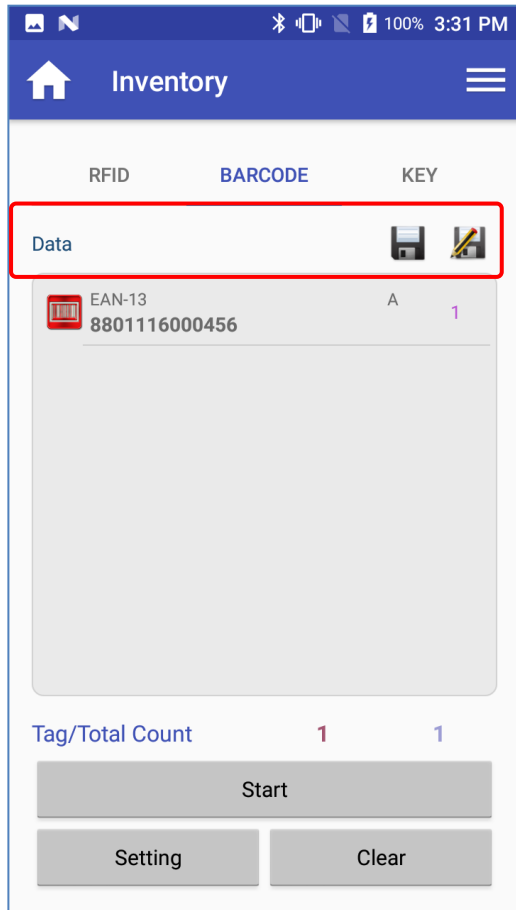
When Selection Mask is settled, Mask button will be displayed in bold letters.

Then, to read barcode data, press "Clear" button to reset Inventory screen.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


When the screen is reset, select Barcode as operation mode.

Then, touch Start button to read barcode.

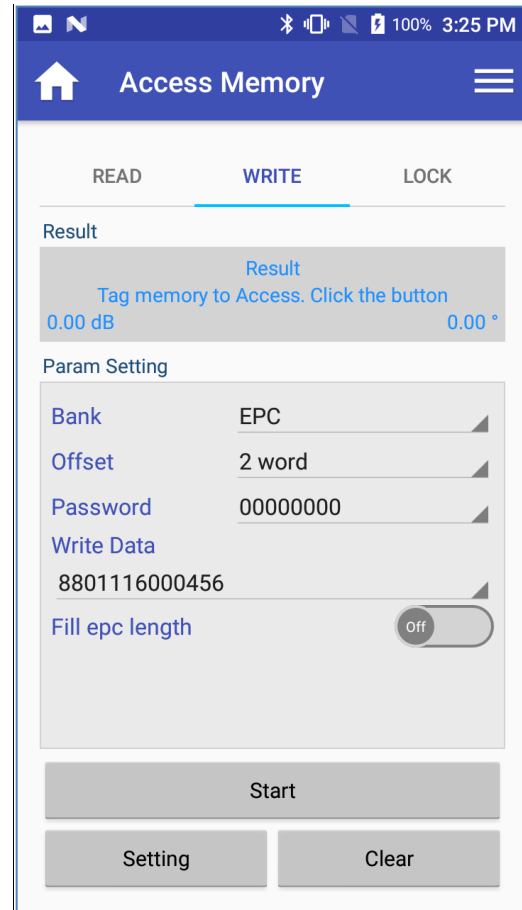
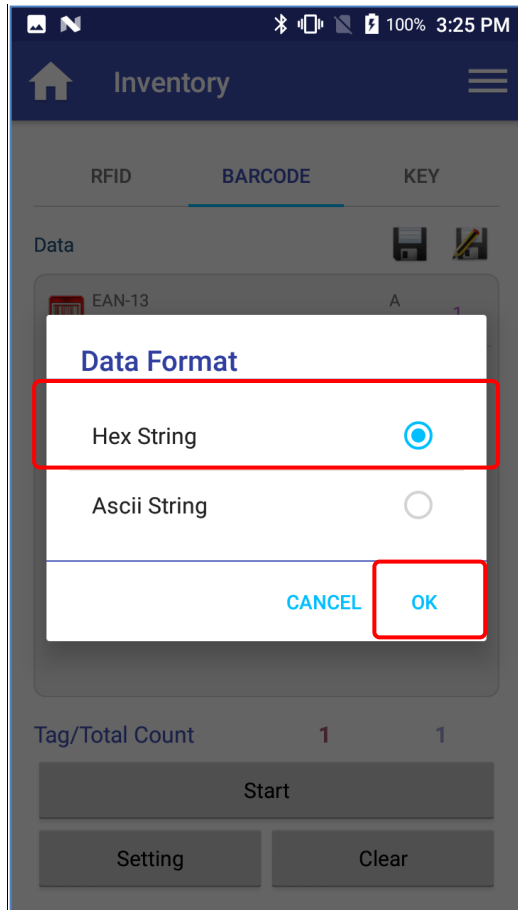


If you Touch and hold the read barcode (about 3 seconds), a dialog box appears asking if you want to use the selected barcode data to the RFID tag.

Touch "Yes" on the dialog box.


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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

Select the format of the barcode data value.

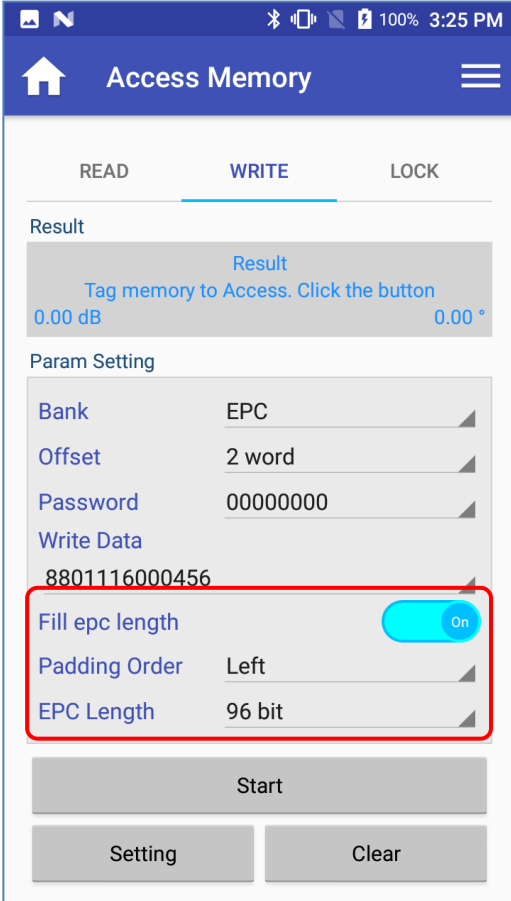


It moves from Inventory screen to Write Memory screen when the dialog box disappears.

Unlike movement by selecting the menu, the Barcode data selected from Inventory screen was input as decoded into HEX value.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

If necessary, select the RFID Tag EPC length and Padding value ('0') position where Write data is to be saved.



Access Memory

READ WRITE LOCK

Result

Result
Tag memory to Access. Click the button
0.00 dB 0.00 °

Param Setting

Bank EPC

Offset 2 word

Password 00000000

Write Data
8801116000456


Fill epc length On

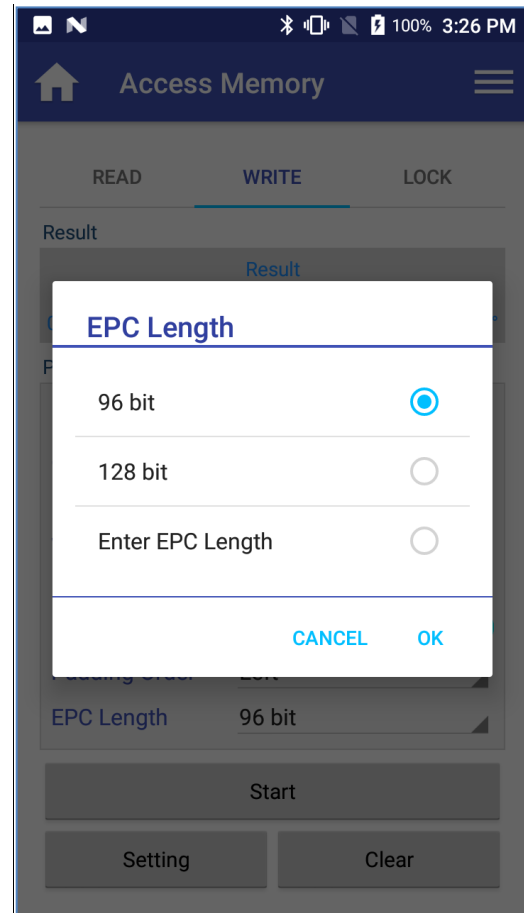
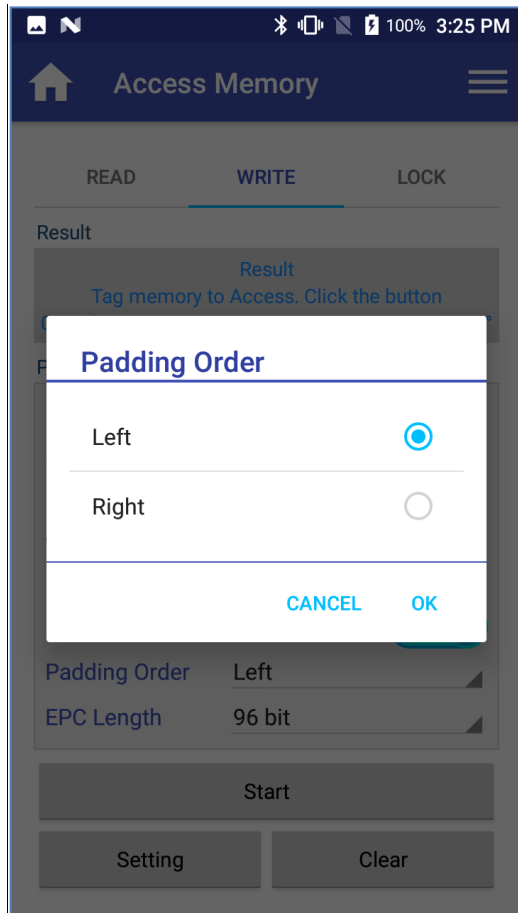
Padding Order Left

EPC Length 96 bit

Start

Setting Clear


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

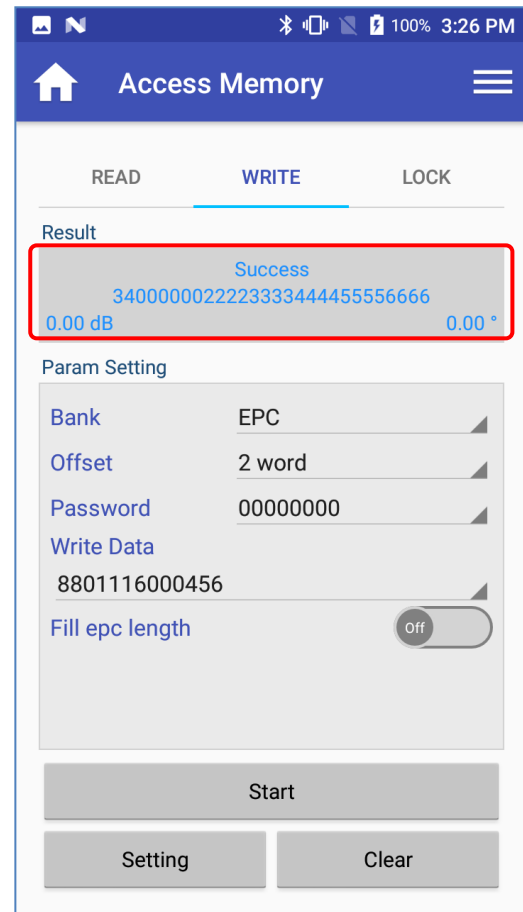
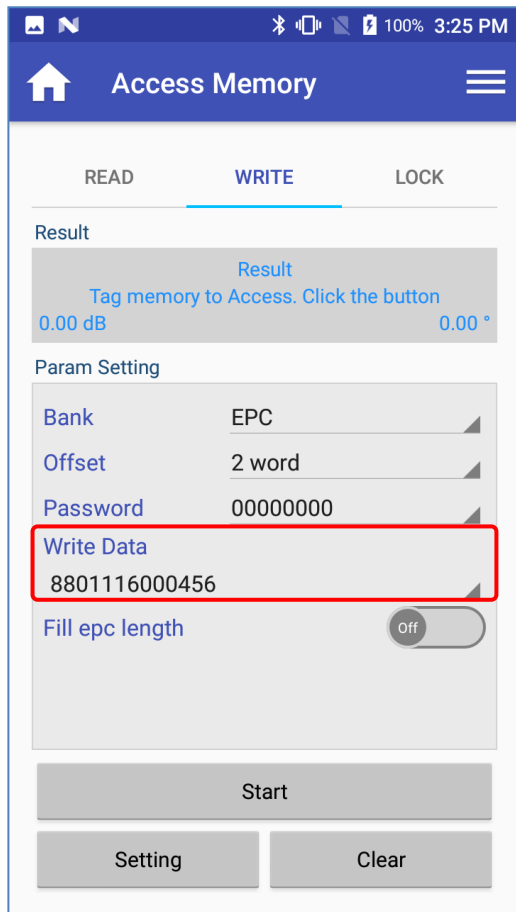


Padding Order selects whether to add a value of 0 to the Left and Right positions.

EPC Length selects EPC length of RFID Tag.


If not set, the default is Left and 96bit.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2



Use the data in RFID tag selected from Inventory screen by touching Start button. You will use the data of the tag selected as Selection Mask

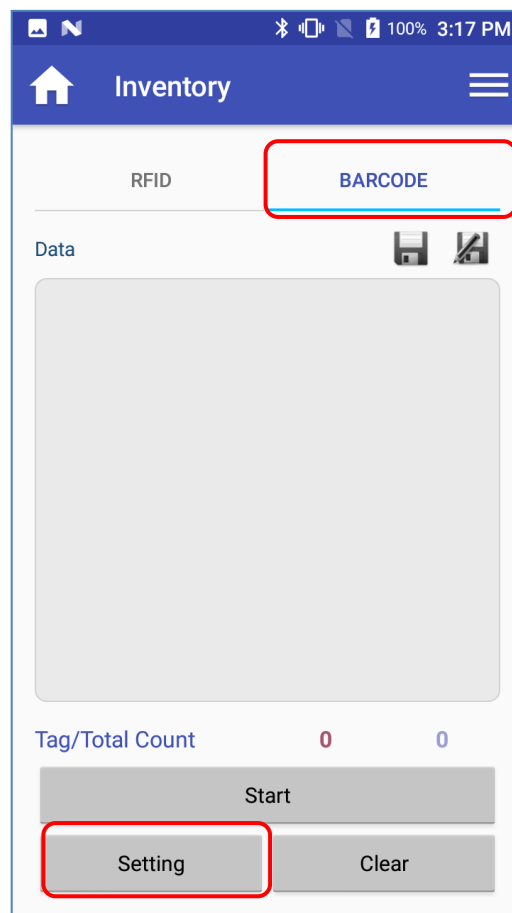
The thing you should notice is that it is impossible to write since the data of EPC Bank came to be a change once Write Memory was done and the value of EPC was changed by touching the Write button that it was different from the value set up in Selection Mask.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.2.6. How to change barcode options

※ This function is not support in ATD100.

In Barcode option you may set up able to choose whether the Symbol in regard to Barcode Module will be used or not.

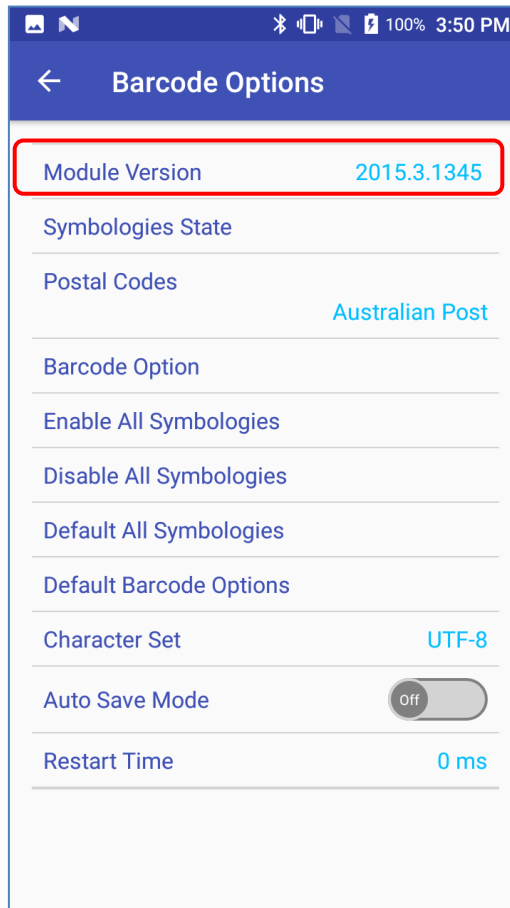



The menu of Barcode Option will display when touching Setting Button after selecting Operation Mode with Barcode.

 All That Identification		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.6.1. Module Version

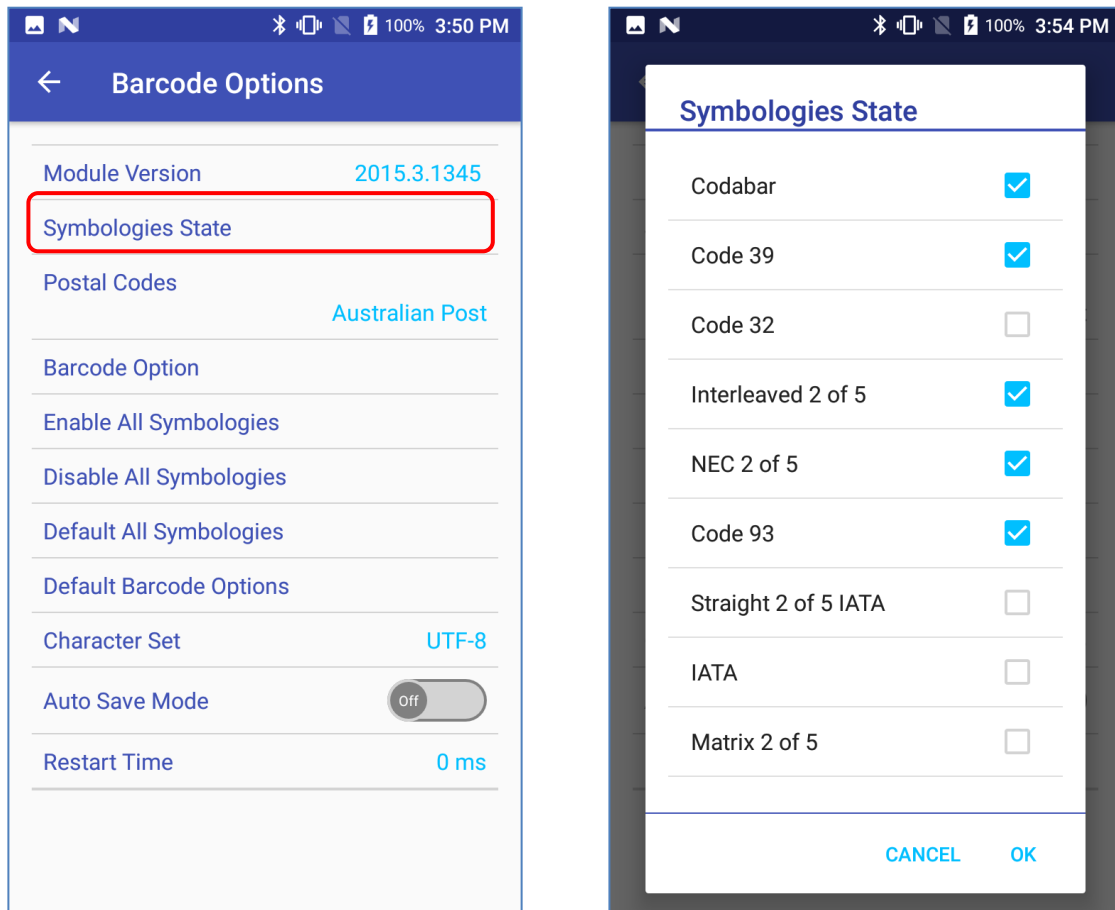
It displays information of the version of Barcode Module.



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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.2.6.2. Symbologies State

In Symbologies State, user may select barcode symbol which can be recognized in Barcode Module at discretion.



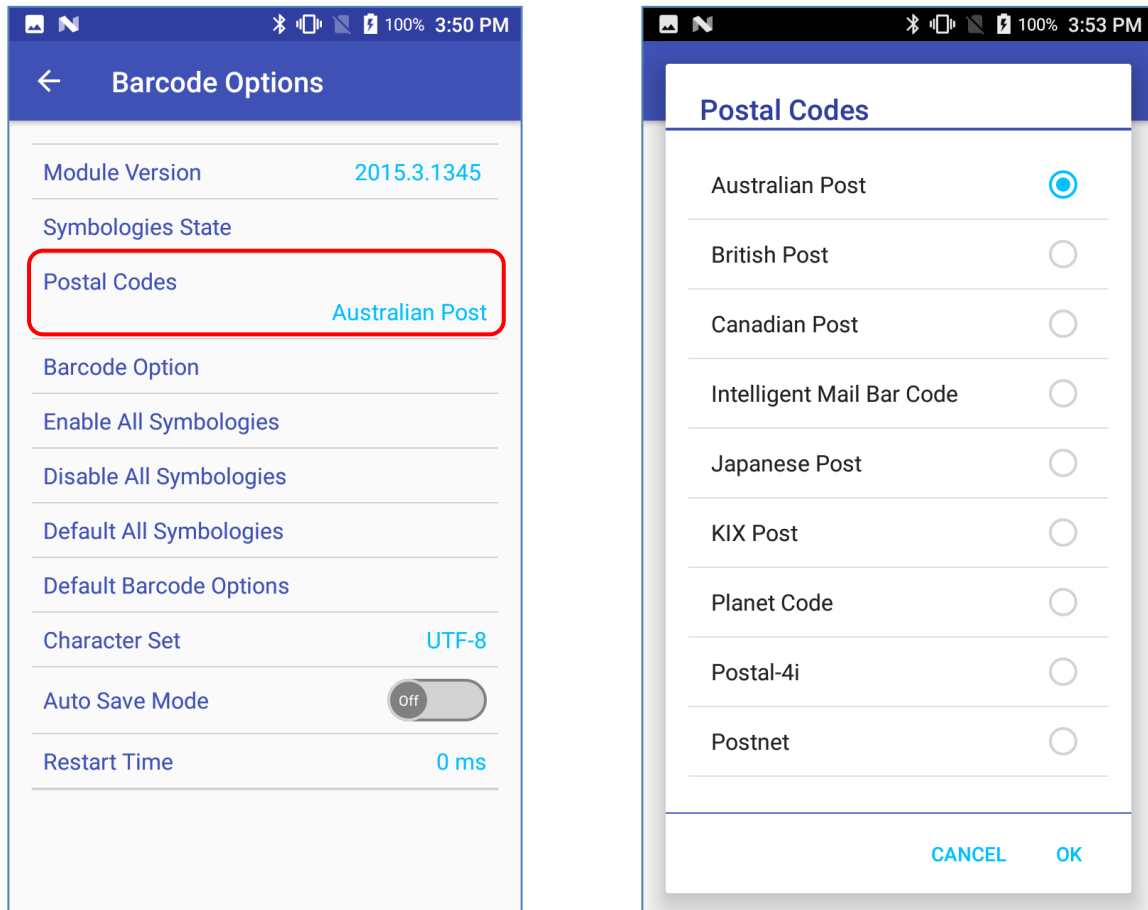
One of the strengths is that there will be increases of barcode symbols able to be recognized if many of all barcode symbols are activated but the recognition capacity of barcode, which is optically read and input, will decline.

Thus, you may increase the capacity of module only by activating those barcodes mainly used.

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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.6.3. Postal Codes


In Postal Codes, at discretion you may select postal barcodes which are recognized inBarcode Module.



As the postal barcode symbol, you may select one of the symbols on the list above.

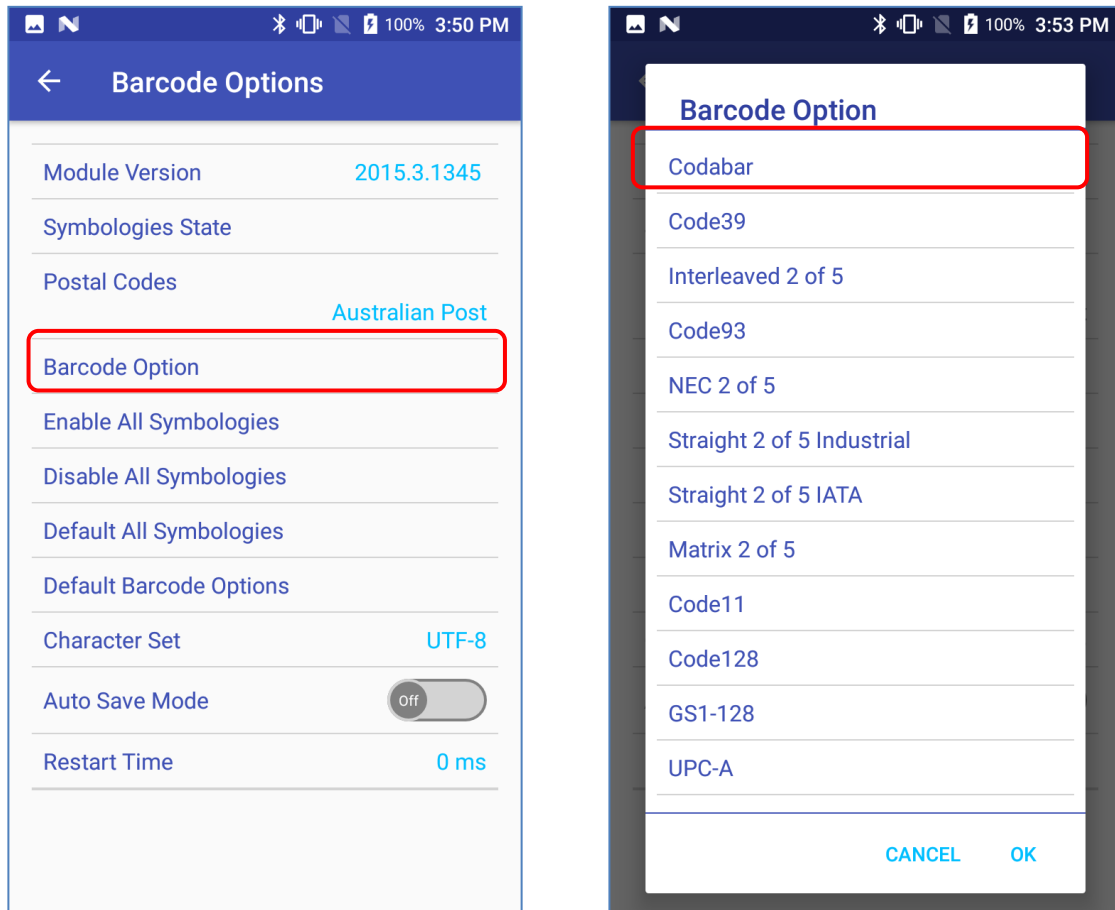
※ This function is supported only on AT388.

As for AT188N, AT188NP, ATS100 and ATS200, you may select post barcode symbol from Symbolologies State.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.2.6.4. Barcode Option

In Barcode Options, you may establish a set-up in details able to recognize barcode of Barcode Module.



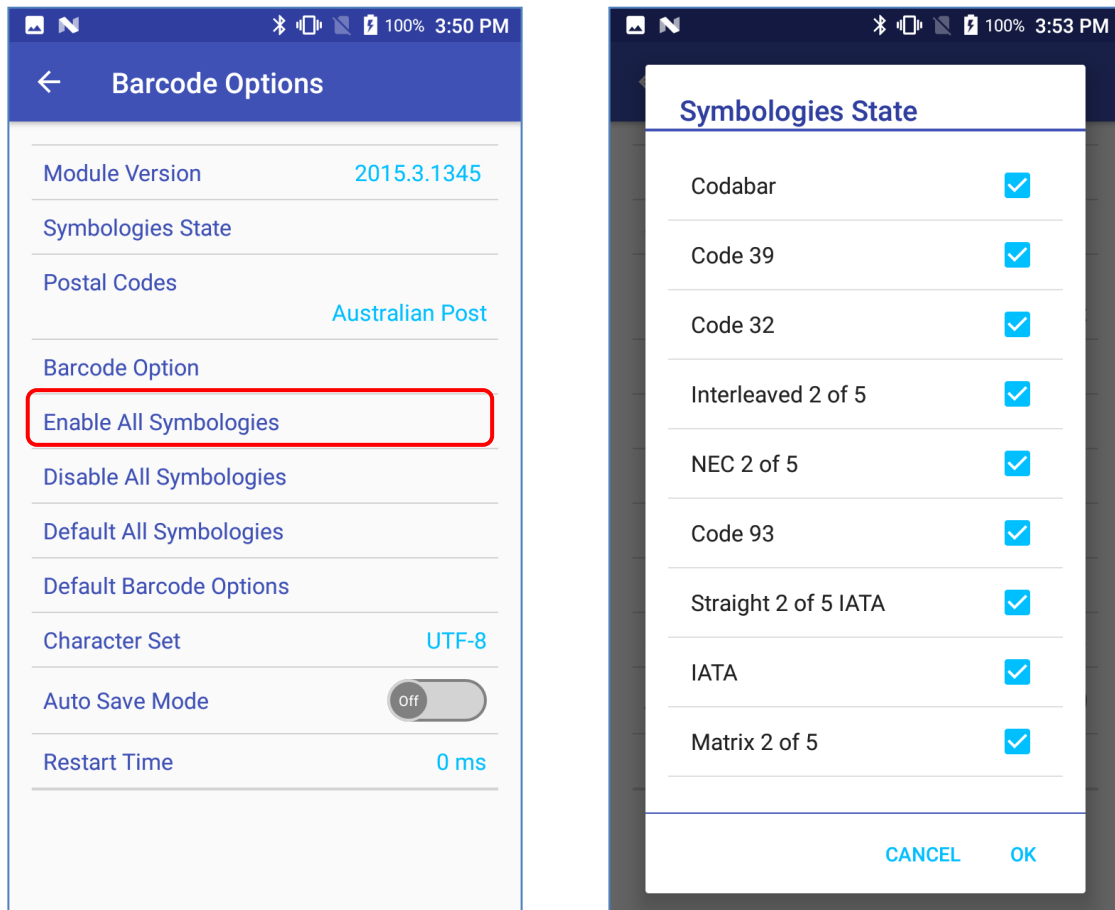
The screen for the set-up in details will display if touching the barcode symbol which you will establish from Barcode Option.

Item for the set-up in details could be different, depending on barcode symbol. For more details, refer to the Datasheet in Barcode Module.


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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.6.5. Enable All Symbologies

It activates all barcode symbols which can be recognized in Barcode Module.

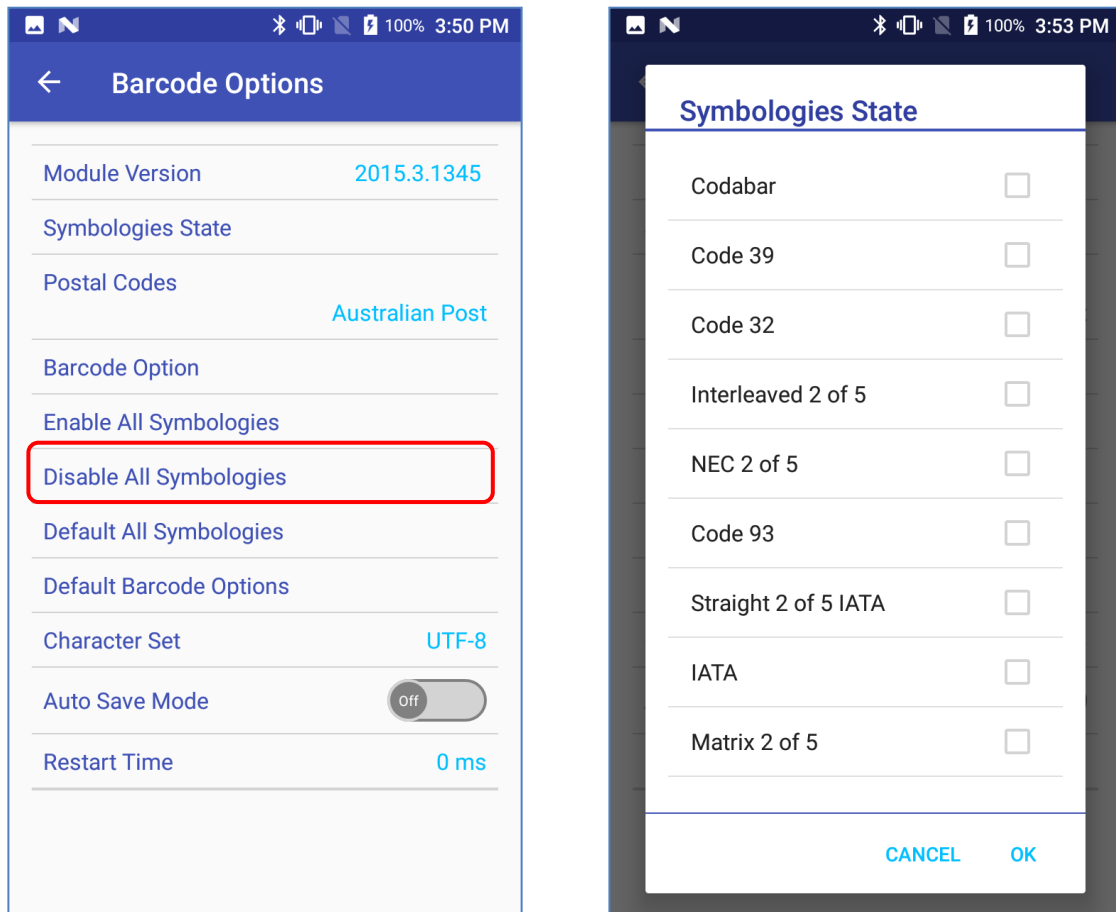


You may verify all symbols are selected if you enter into Symbologies State by touching Enable All Symbologies.


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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.6.6. Disable All Symbolologies

It inactivates all barcode symbols recognizable in Barcode Module.

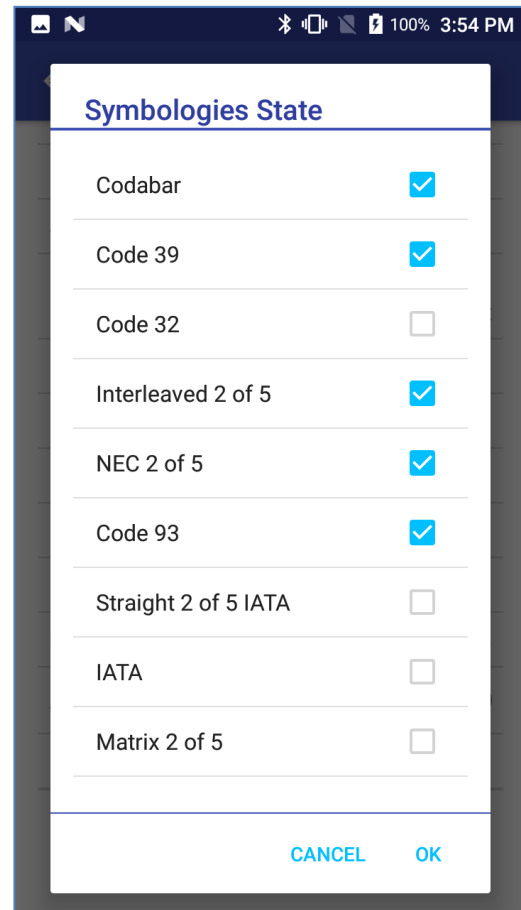
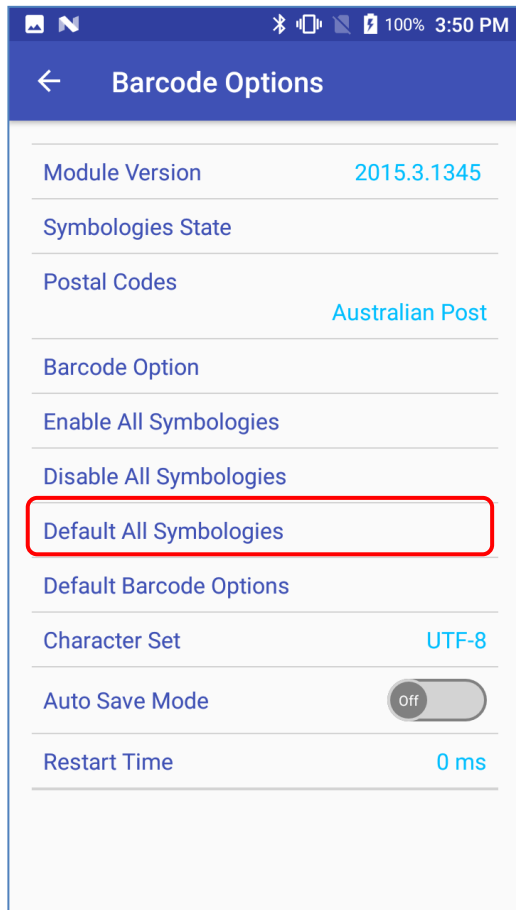



You may verify all symbols are not selected if you enter into Symbolologies State by touching all Symbolologies

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.6.7. Default All Symbologies

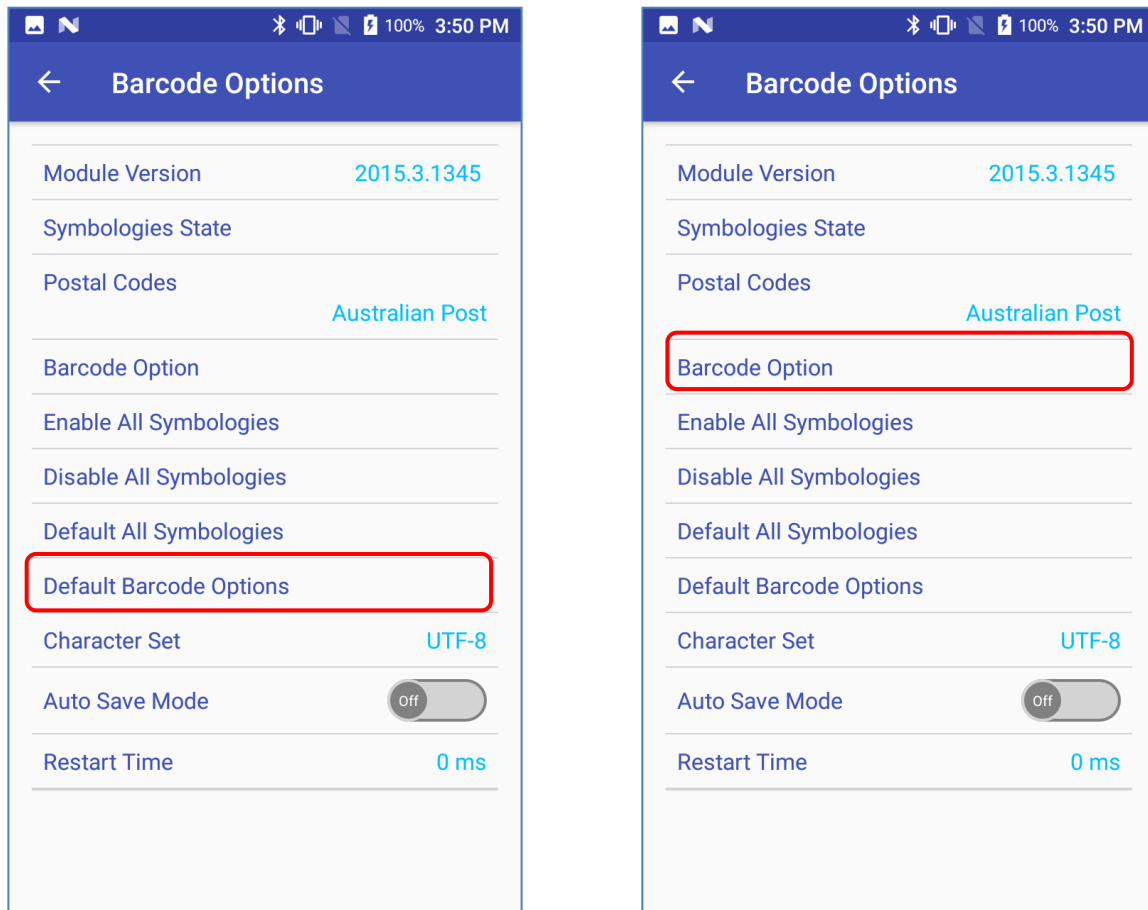
It initializes barcode symbols recognizable in Default Barcode Module into factory default value of the Module.



		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.2.6.8. Default Barcode Options

It initializes the value of Barcode Symbol Options to the default value.



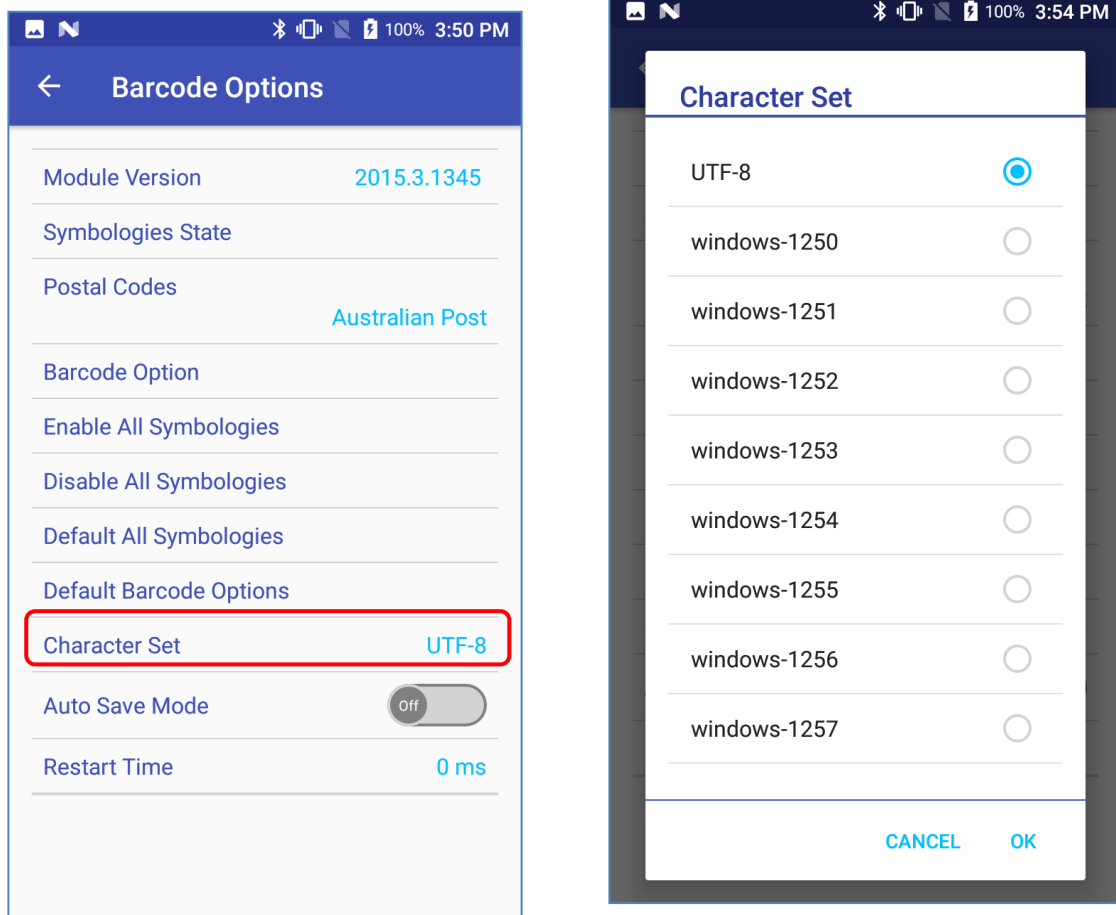
You may check the changed value after setting in the lists of Barcode Option.

Only zebra module is currently supported.


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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.6.9. Character Set

It is used to decode barcode symbol data recognized in Barcode Module and user may select it at discretion.



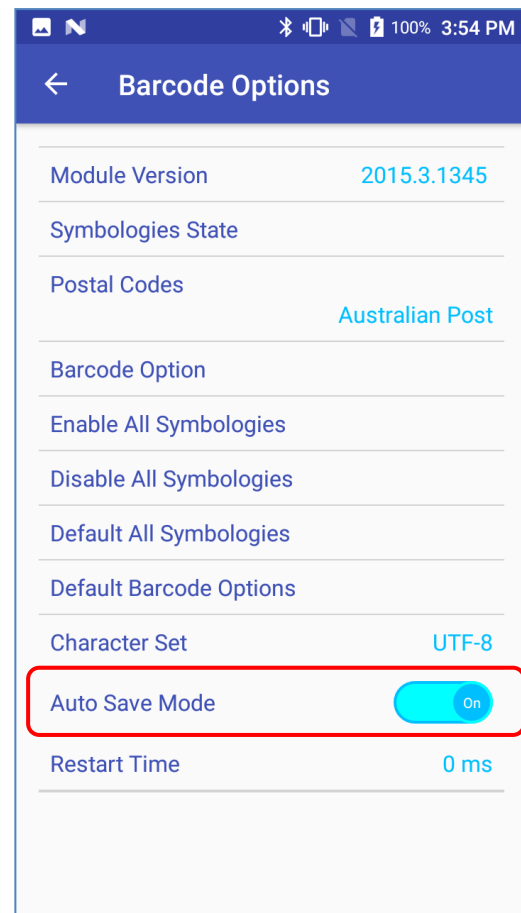
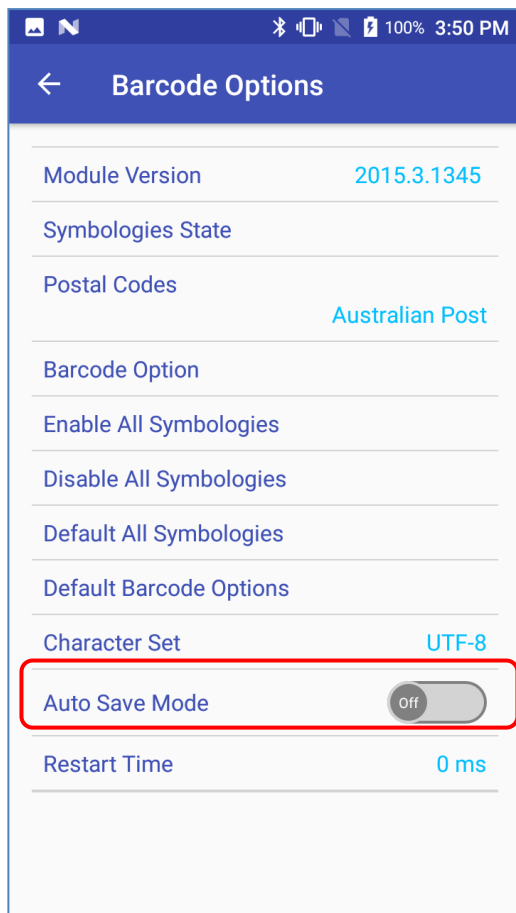
Barcode data may not display properly when barcode symbol is scanned after incorrectly set up.

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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.6.10. Auto Save Mode


In Auto Save Mode option, you may determine whether tag data input and barcode will be stored in the internal memory of tools. Auto Save Mode will be related to operation when tools and Demo are connected and it has no effect when not connected.

You may have more explanations about this option in the Stored Data screen.



Inventoried data will be stored in the tools when Auto Save Mode is on

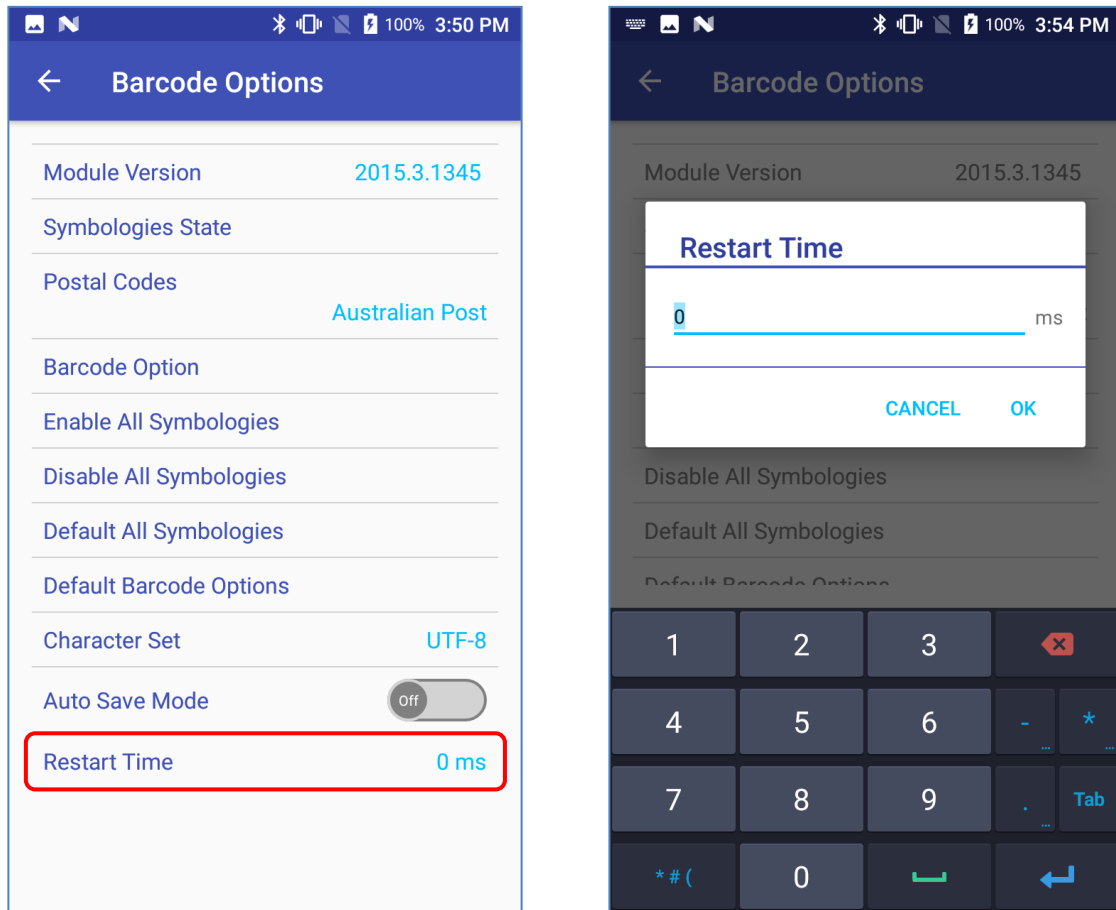
※ This function is not support in ATS100 and ATS200.

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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.2.6.11. Restart Time


It can be used to operate Barcode Scan repeatedly.

Setting unit is ms.



Repetitive performance will not in operation when is set as 0.

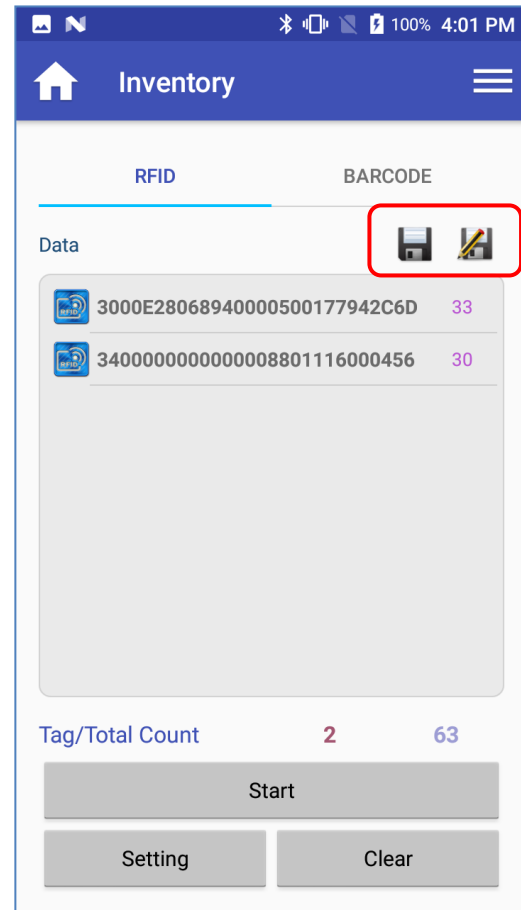
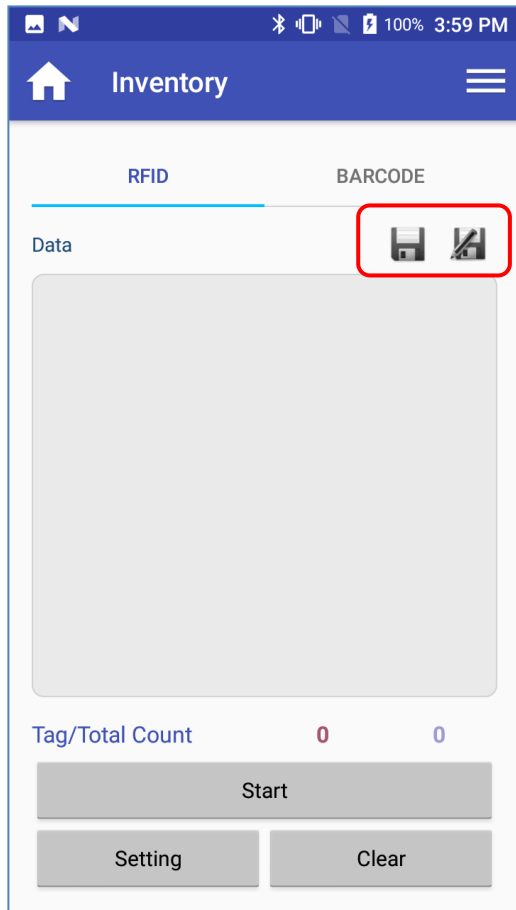
It will be delayed as much as Restart Time after receiving barcode data when is set as more than 0 and then barcode scan will resume automatically.


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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

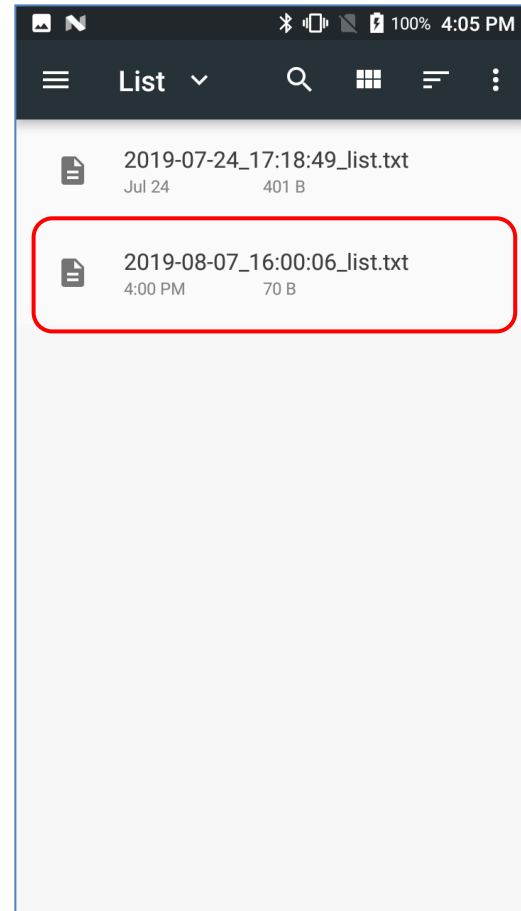
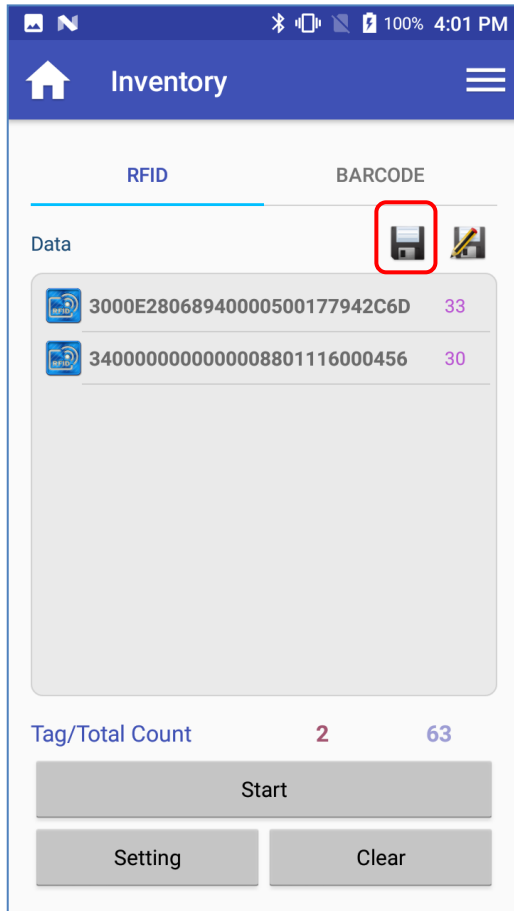
3.2.7. How to save data to file

Save the data displayed on the screen to a file.

If there is no data, save button will be disabled.



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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2




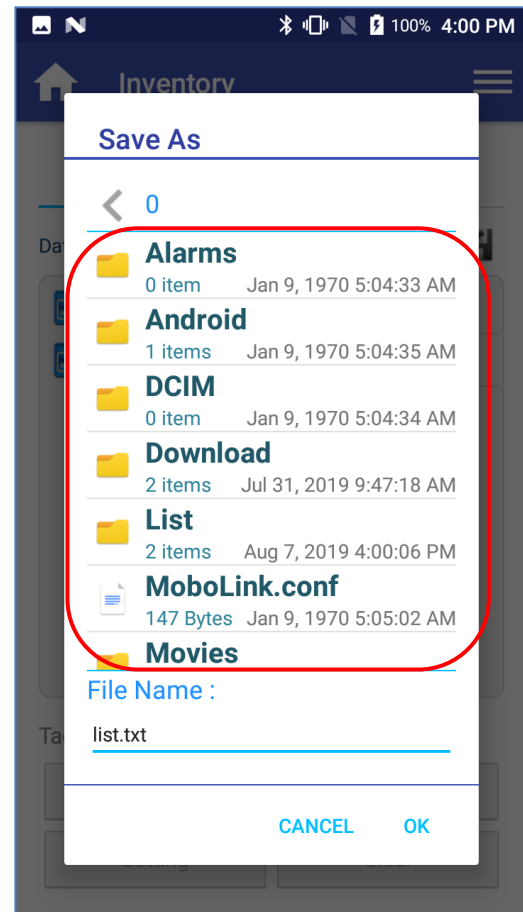
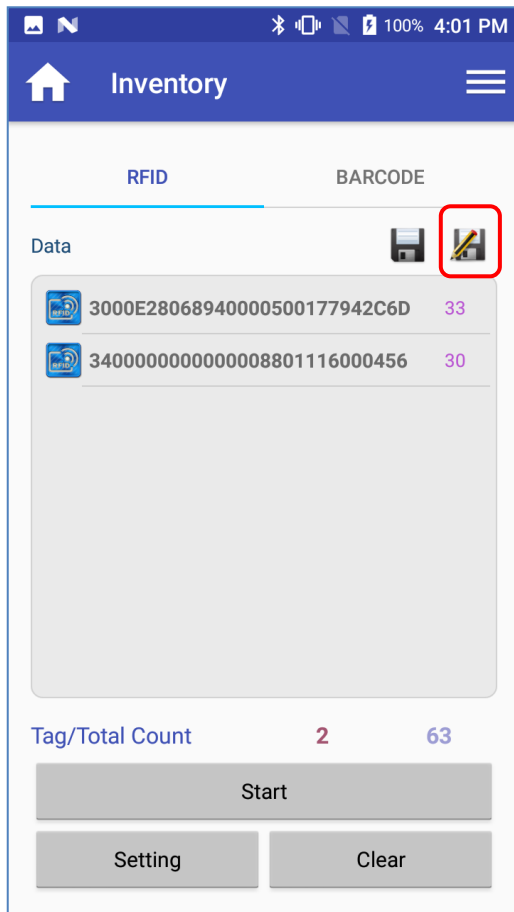
If you click the "Save" button, data displayed on the screen will be saved on internal memory.
File will be created as below format. (comma separated value)

yyyy : Year
MM : Month
dd : Day
hh : Hour
mm : Minute
ss : Second


Note:

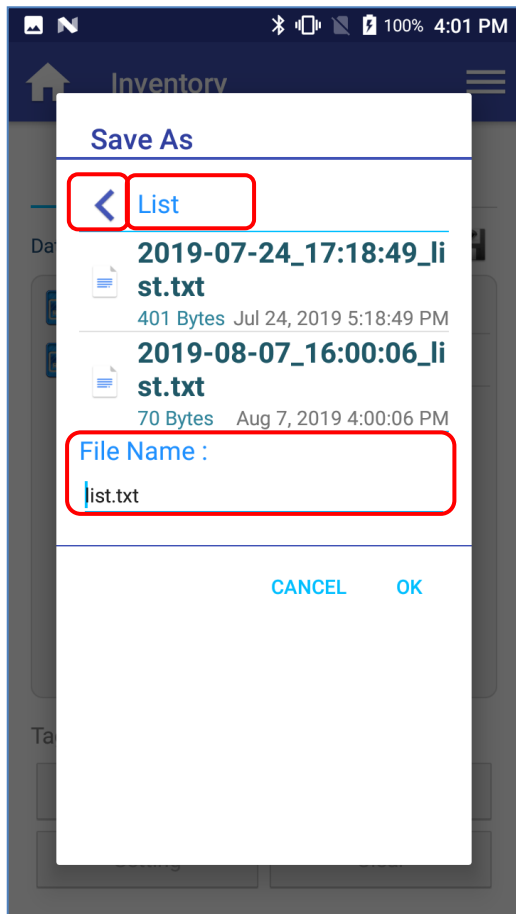
**** From Android 11 and above file format is as yyyy-MM-dd_hh.mm.ss_list.txt**

 All That Identification		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2



If you click the "Save As" button, File browser will appear.
Scroll the browser, Select your folder.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2



Input your file name, and Click "OK" button
Then, file will be saved.

If the file is already exist, the file will be overwritten.
If you click "Cancel" button, the file will not be saved.

3.3. Selection Mask

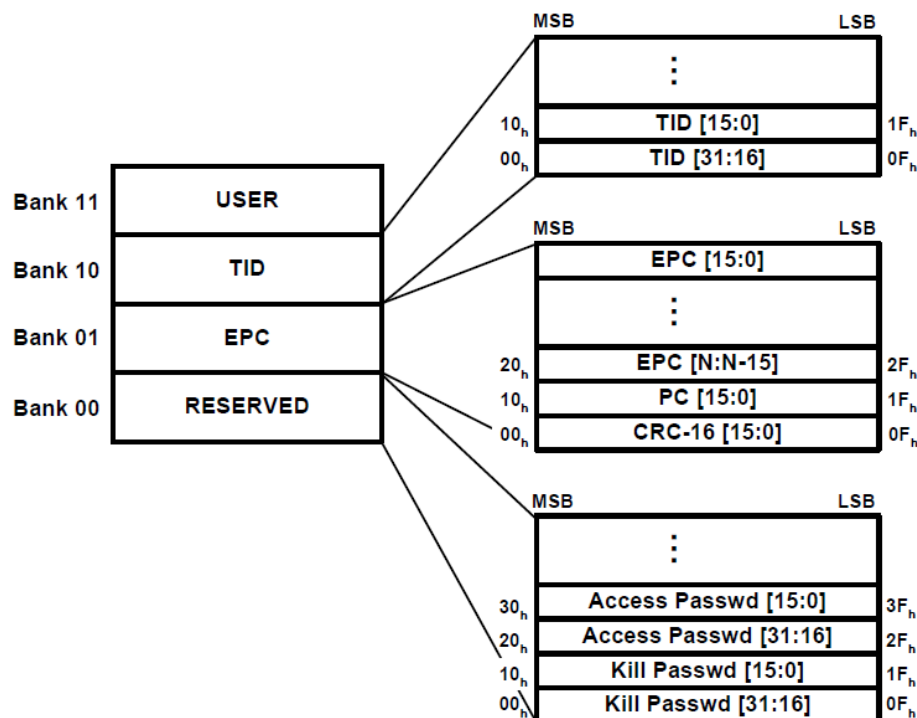
It functions relating to RFID in all screens except Option Screen, able to move to the setting screen of Selection Mask by pressing "Mask Button."

Its function is to set up for the access to the tags particularly conditioned among RFID UHF technologies.

understand the structure of RFID tag to understand Selection Mask and the logic how RFID tools read RFID tag in.

3.3.1. Tag Memory

RFID tag is an IC chip which data is stored in; thus, it has memory in which data is stored. The memory of the tag consists of 4 components and its memory is seen below.




Reserved Memory includes Kill Password and Access Password.

In EPC Memory, the first WORD (00h ~ 0Fh) includes Stored CRC and the second WORD (10h ~ 1Fh) includes Stored PC. After that (after 20h), the rest Word includes the value input to discern tags.

In TID Memory, the initial8bit (00h ~ 07h) includes class distinguisher allotted from ISO/IEC 15963. In the later TID memory address which is more than 07h, there includes custom command able to distinguish tags uniquely and optional specification information.

As User Memory is an optional specification, you may read and write data in it if it is actualized in tags.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.3.2. Tag Query

Tag supports four Session Flags (S0, S1, S2, and S3) and one Select Flag.

It establishes the designated session flag in regard to Selection Mask or Select Flag Leader asks about. And leader will read Tag data based on the given Session Flag and Select Flag during inventory round.

Session Flag has A value or B value. A is its default value. Select Flag remains as Assert status or Deassert state. Assert is its default state.

It will establish Session Flag or Select Flag according to the conditions of Selection Mask and the tags of the conditions of Session Flag or Select Flag. Session Flag or Select Flag will return to default value at a fixed time under the state of no energy supply. The standard of energy supply for tag in which there is no separate power is operated by using the wave sending Leader as energy. Thus, the energy supply time is similar to the time of inventory round.

The table below shows the default time of each flag.

Flag	Tag energized	Tag not energized
S0 SessionFlag	Indefinite	None
S1 Session Flag	500ms < Persistence<5s	500ms < Persistence<5s
S2 Session Flag	Indefinite	2s <Persistence
S3 Session Flag	Indefinite	2s <Persistence
Select Flag	Indefinite	2s <Persistence

The conditions of Selection Mask are Target, Action, Bank, Offset, Length, Pattern, and etc.


Target will designate Session Flag or Selection Flag to set up it as the established state of Action if the pattern conditions of Selection Mask are set up based on Action.

Action will designate its own operation either the conditions of offset, length, and pattern match or does not match to bank.

The table below shows the operation of action.

Action	Tag Matching	Tag Not-Matching
0	assert SL or inventoried → A	deassert SL or inventoried → B
1	assert SL or inventoried → A	do nothing
2	do nothing	deassert SL or inventoried → B
3	negate SL or (A → B, B → A)	do nothing
4	deassert SL or inventoried → B	assert SL or inventoried → A
5	deassert SL or inventoried → B	do nothing
6	do nothing	assert SL or inventoried → A
7	do nothing	negate SL or (A → B, B → A)

Bank will designate Tag Memory to compare the given patterns.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

Offset will designate the start address in which begins comparing patterns of Selection Mask in bank by bit.

Length will designate the length of patterns of Selection Mask to be compared in bank by bit. The only given length will be compared to though pattern is longer than length. For example, if you want to read the tag starting with the PC value of 0x3000 for EPC, you may designate Selection Mask as below.

Mask Parameter	Value
Target	SL
Action	0
Bank	EPC
Offset	16bit
Length	16bit
Pattern	0x3000


If we interpret the conditions of Selection Mask on the above table, we will establish Select Flag as assert and as deassert when the data does not match when the data matches by comparing the value of 0x3000 starting with 16 bit (1 Word) up to the length of 16 bit (1 Word) in EPC Memory.

In this way, the target flag, which is the tag's subject of the conditions of Selection Mask, will be set up as the state designated by the value of action if the conditions of tag's Selection Mask are established. Then, it will read the tags in which match to the conditions in pursuant to Select Flag, Session Target, Session Flag set up to the inventory conditions in leader.

Select Flag will designate whether you will read the state of Select Flag is assert or deassert or both.

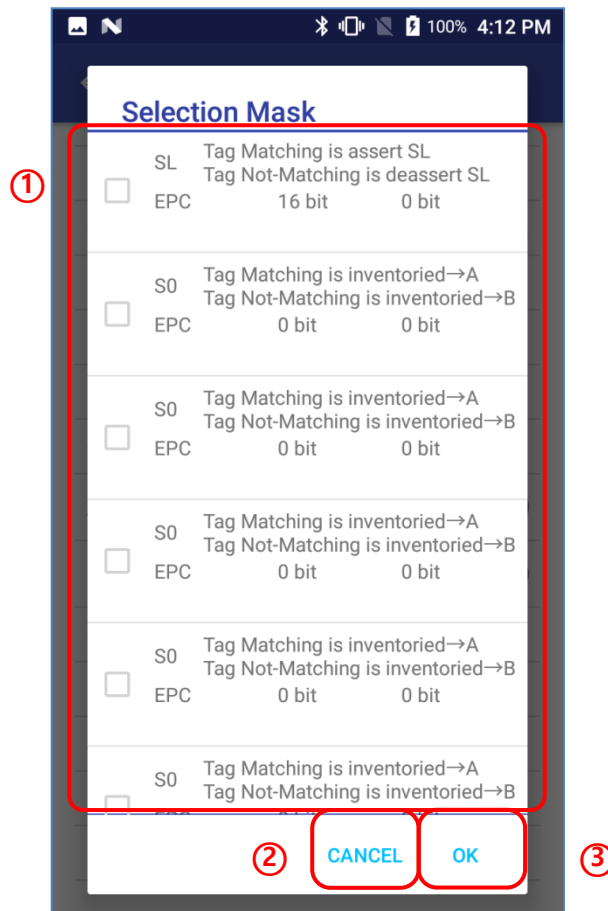
Session Target will designate Session Flag(S0, S1, S2, S3) in which conditions of session flag are to be designated.

Session Flag will designate whether you will read the state of Session Flag, designated as Session Target, is A or B or both.


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.3.3. Screen Composition

Select Mask Screen consists of the following items below.

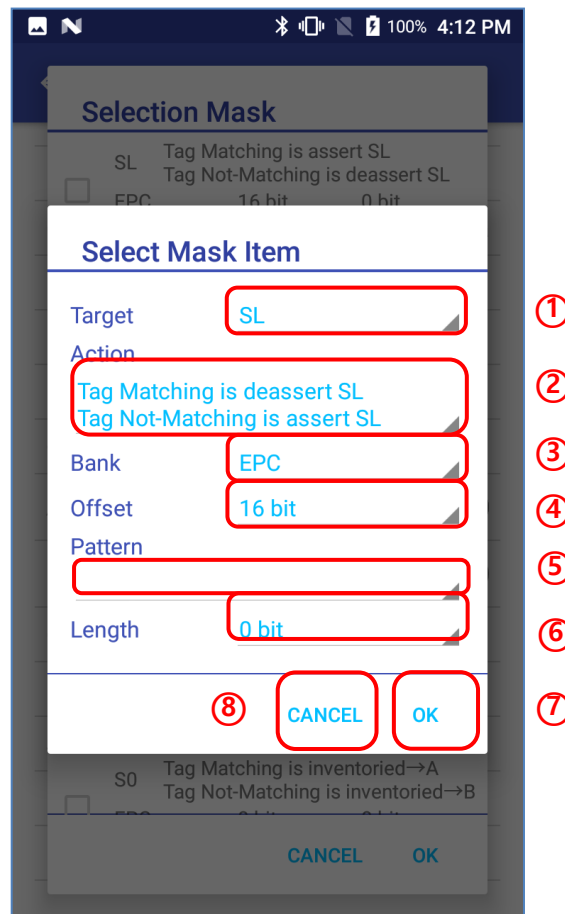



- ① **Mask List** : designate the conditions of Selection Mask. You may condition it up to 8 items. A dialog box for setting in details will appear if touching item from the Mask List whose condition you want to change. You will know more about it in Selection Mask Detail Screen Composition.
- ② **Cancel** : It goes back to the previous screen by cancelling the set-up of Selection Mask.
- ③ **OK** : It will store the conditions of the designated Selection Mask in reader.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual		Company		ATID Co.,Ltd			
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

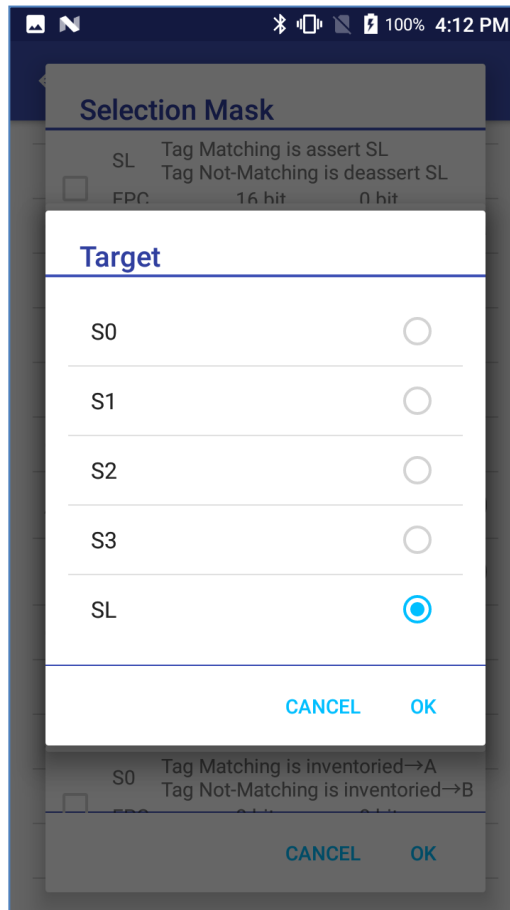
3.3.4. Selection Mask Detail Screen Composition

If you touch the conditional items of Selection Mask from the Mask List of the screen of Selection Mask, you may see the following screen in which you may designate the conditions in details of Selection Mask.




		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

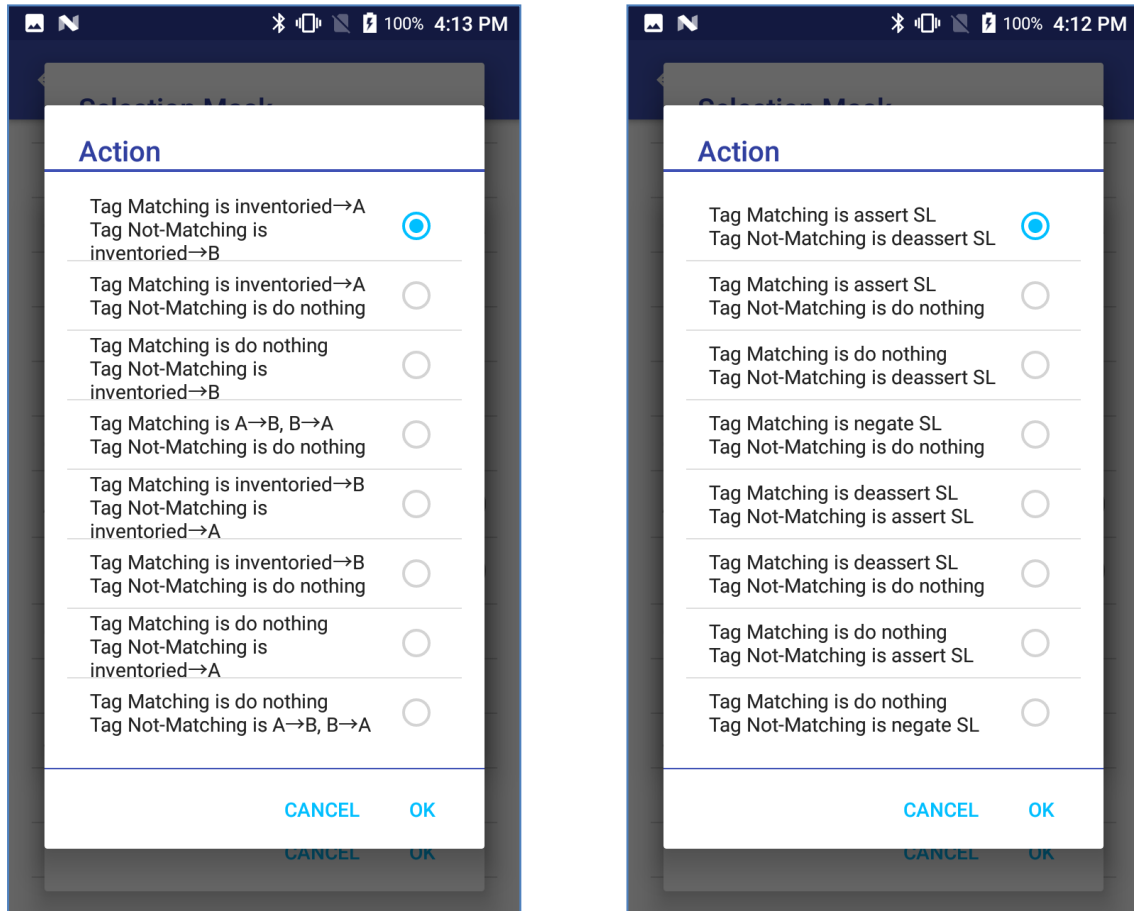
- ① **Target** : designate flag in which you will store the results of comparison of Selection Mask.




Target	Description	Note
S0	It means you will write the results of comparison of Selection Mask on S0 of Session Flag..	
S1	It means you will write the results of comparison of Selection Mask on S1 of Session Flag.	
S2	It means you will write the results of comparison of Selection Mask on S2 of Session Flag.	
S3	It means you will write the results of comparison of Selection Mask on S3 of Session Flag.	
SL	It means you will write the results of comparison of Selection Mask on Session Flag.	

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

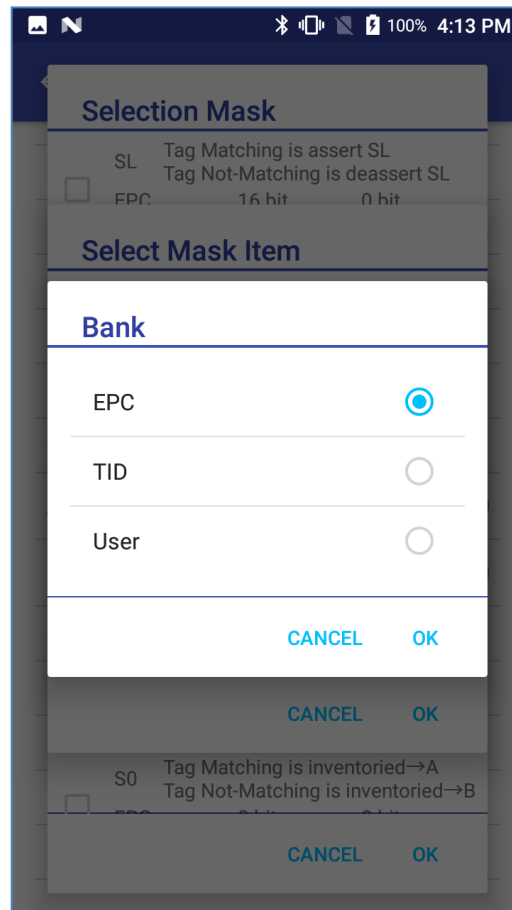
② **Action** : It will designate comparison methods and results of Selection Mask.




Refer to the explanation of Action of Tag Query.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

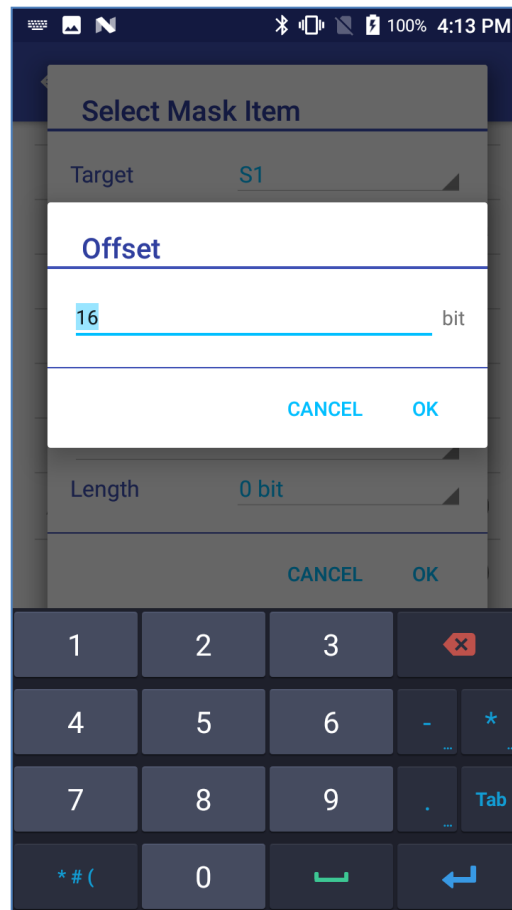
- ③ **Bank** : It will designate Tag Memory in which pattern of Selection Mask is compared.




In Bank Memory which can be compared with Selection Mask, there are EPC, TID, and User Memory.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

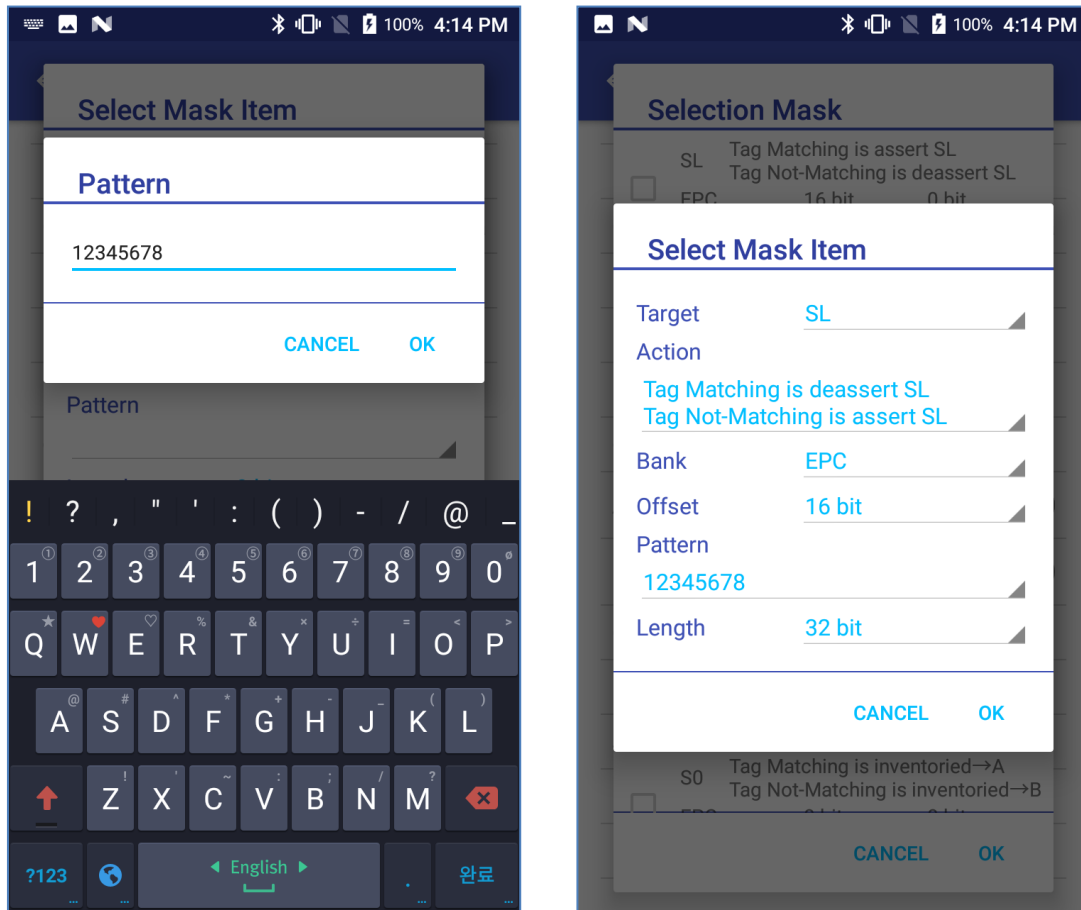
- ④ **Offset** : It will designate the Start Address in which begins comparing patterns of Selection Mask in Bank by bit.




Starting Address of Selection Mask can be designated from 0bit to maximum 255 bit.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

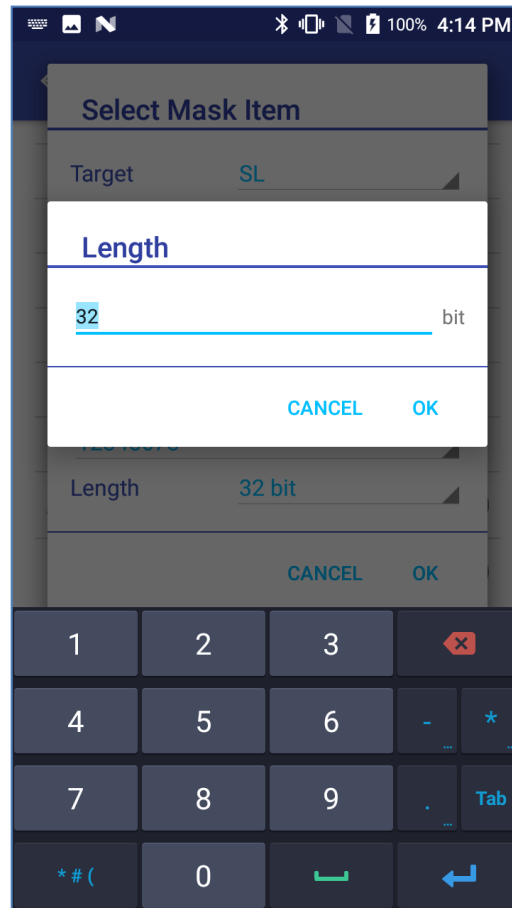
- ⑤ **Pattern** : It will designate the value to be compared from the stating address in Bank designated by Selection Mask.



Input pattern value is Hex and you are able to input up to 32.
Length will automatically be stored when stored by OK Button.


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

- ⑥ **Length** : It will designate the length of patterns of Selection Mask to be compared in Bank by bit



The length of Pattern per each letter is 8bit.
Accordingly, you may input 255 bit as maximum.

- ⑦ **OK** : It will store the designated conditions of Selection Mask.
⑧ **Cancel** : It will cancel the conditions of Selection Mask.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.3.5. How to set a selection mask

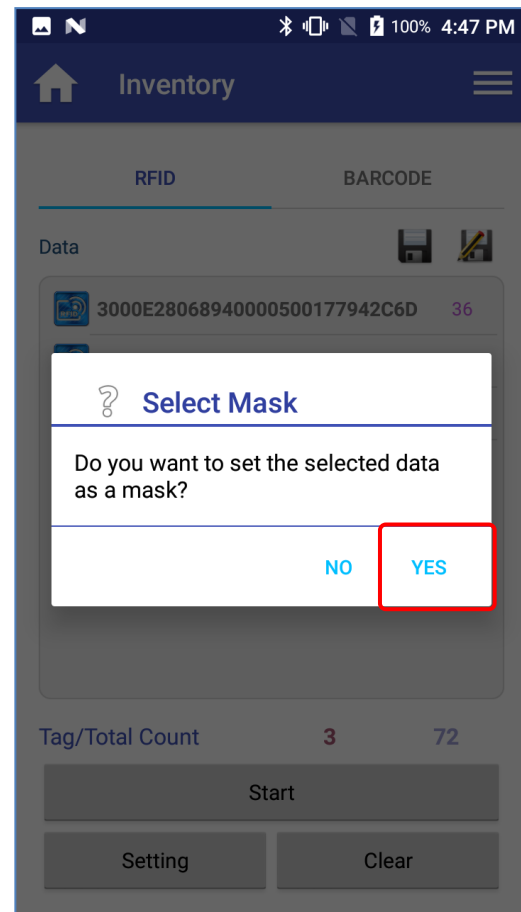
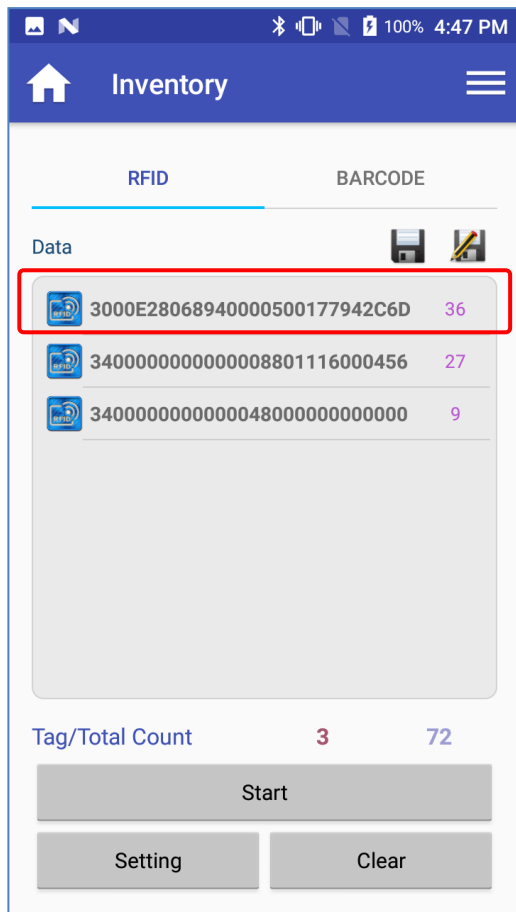
ATID READER SE Demo will provide you two methods to set up Selection Mask.

One is to set in details in the screen of Selection Mask by touching inventory screen, Read Memory, Write Memory, Lock Memory Screen, and etc.

Another is to simply set up Selection Mask on Inventory Screen.

Mask Button will display in bold once Selection Mask is set up


You will conduct inventory of the surrounding RFID by setting Operation Mode as RFID and touching on Start Button.



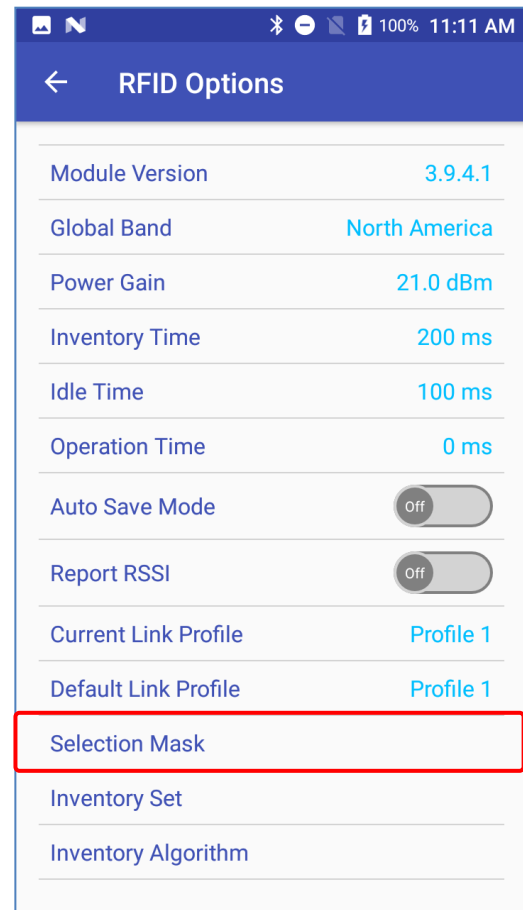
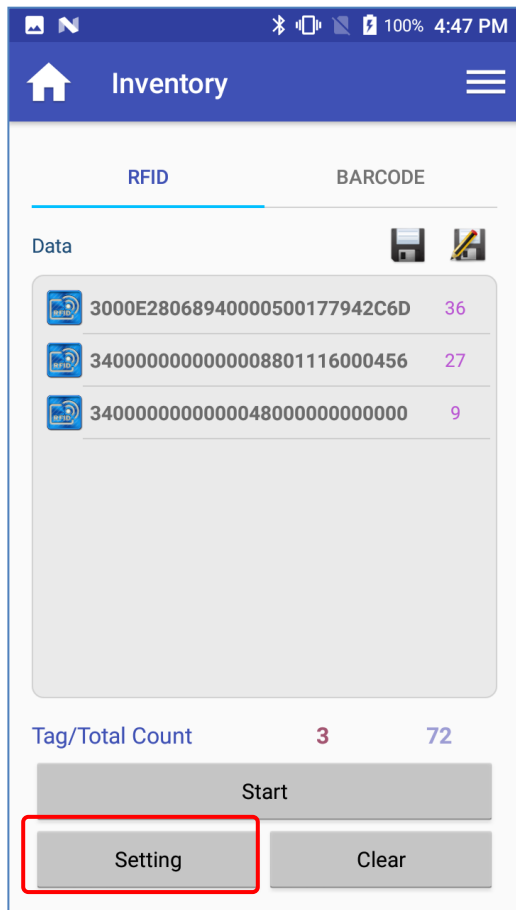
touch on RFID tag long (about 3 seconds) intended to set Selection Mask.


And then, there will be a dialog box asking if you want to set a Mask with the selected data.

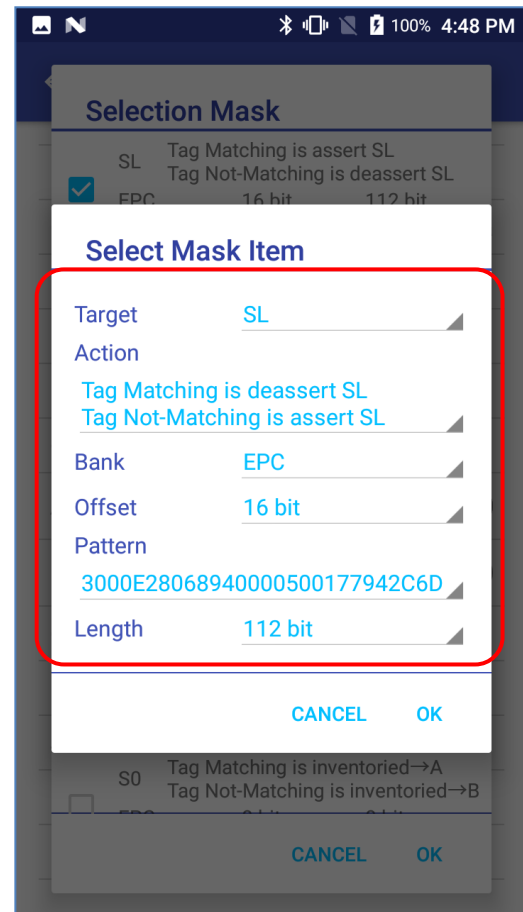
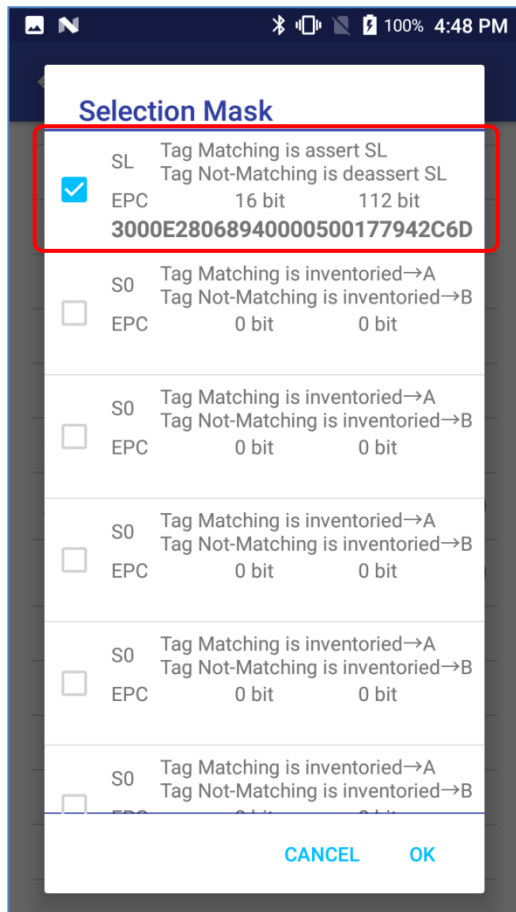
touch on Yes Button if you want to set a Mask with the selected data.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


You can check that the Selection Mask is set in the value of RFID selected on the screen of inventory if you verify after moving to the Selection Mask by touching on the Setting button.

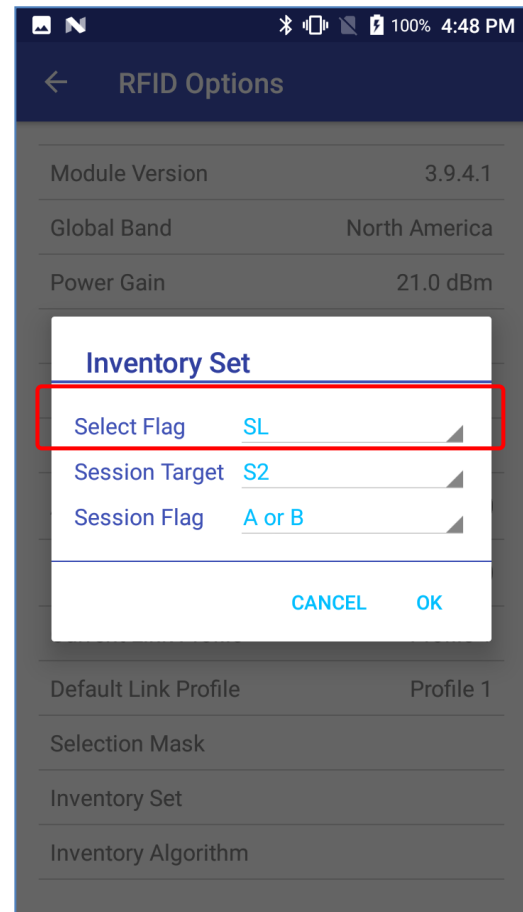
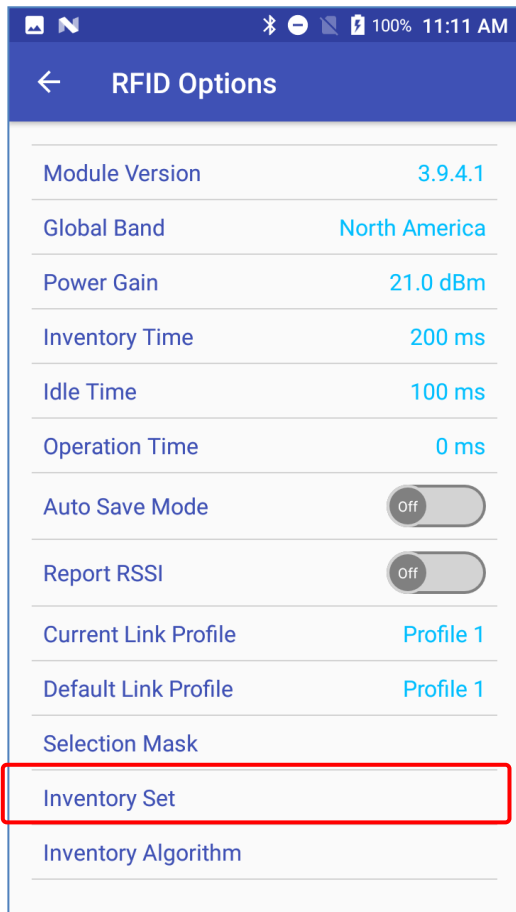


		ATID Reader SE Demo Guide for Android					
All That Identification		Android Demo Guide Manual				Company	ATID Co.,Ltd
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2




You may set Selection Mask Target as SL (Select Flag) basically if you click the Select Mask after selecting the RFID Tag on Inventory Screen.

 All That Identification		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

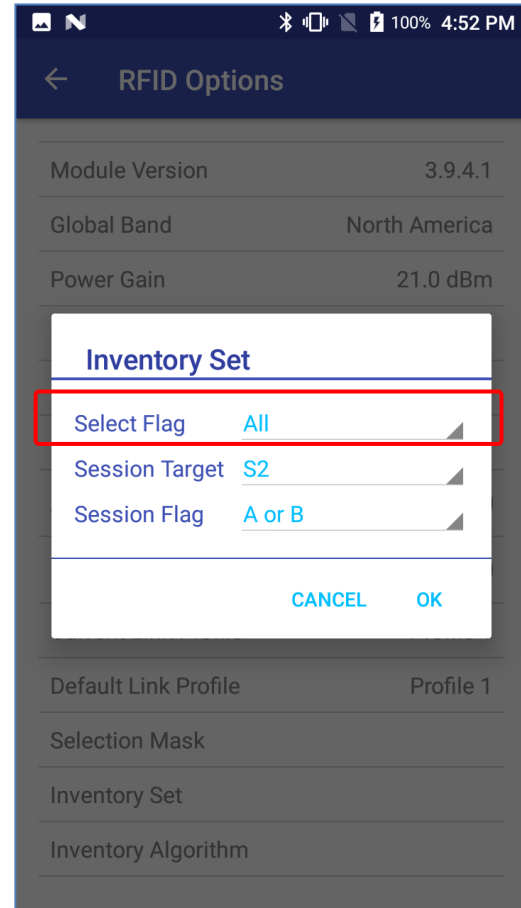
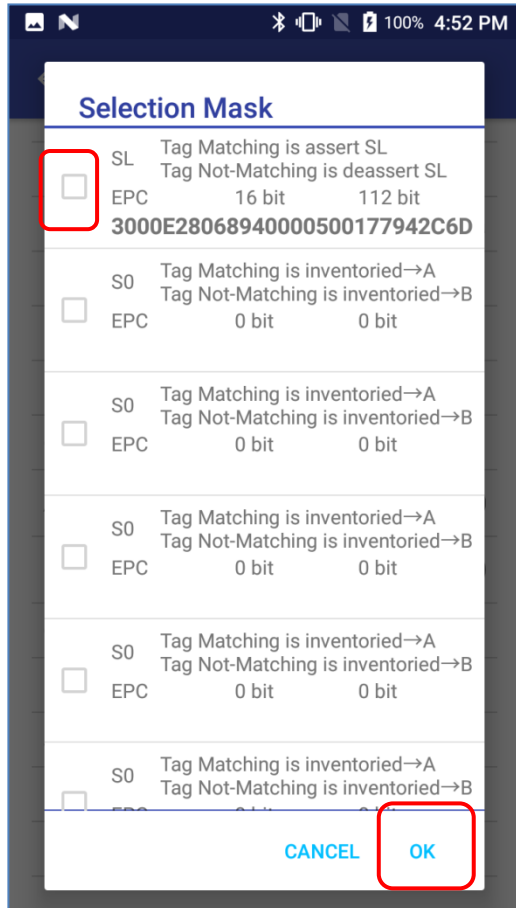



You will touch OK button after clicking on Select Flag from Inventory Set.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.3.6. How to disable selection mask

In ATID READER SE Demo, the method for disabling Selection Mask is that undo the check box on Selection Mask Screen, touch on OK button, and change Select Flag from Inventory Set from SL to All.



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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

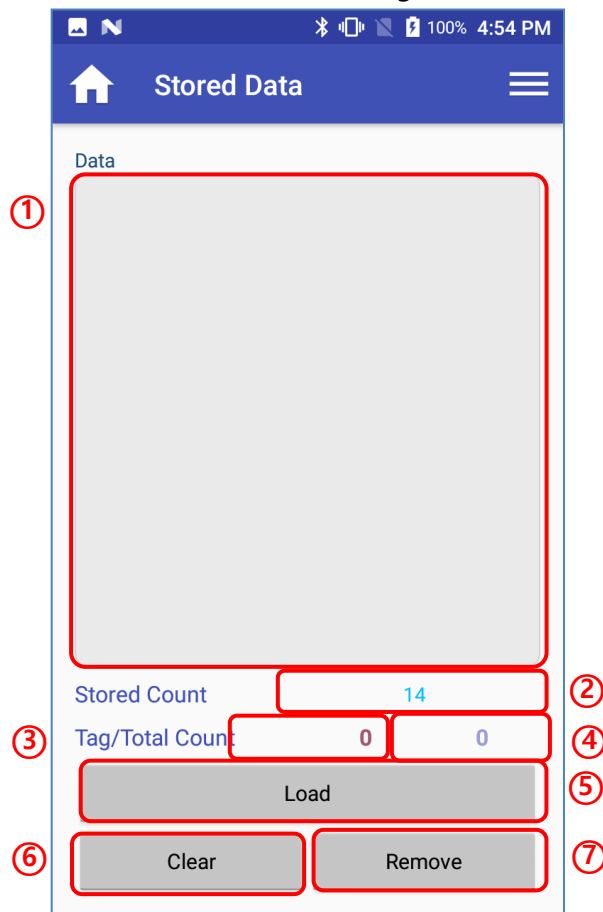
3.4. Stored Data

Stored Data Demo is to read RFID tag read in when the equipment is not connected to the Demo, the data whose barcode stored in the memory of the equipment, and the data stored in the internal memory by reading RFID tag and barcode when Auto Save Mode in Inventory Demo is on.


※ This function is not support in ATS100, ATS200 and ATD100.

3.4.1. Screen Composition


The Demo Screen of Stored Data consists of the following items shown as the figure below.



- ① **Data List** : it displays the data loaded from the equipment.
- ② **Stored Count** : it displays the number of the data stored in the equipment.
- ③ **Data Count** : it displays the number of the data on Data List. As the overlapping data displays its number on Data List, it will display as one in Data Count.
- ④ **Total Count** : it displays the number of the data read in from the equipment. This number should be identical of the Stored Count.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

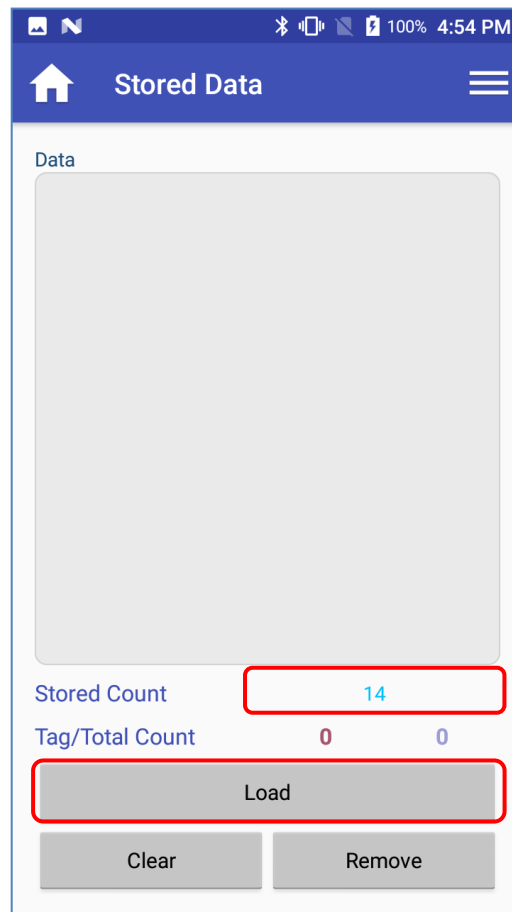
- ⑤ **Load** : it reads the data from the equipment.
- ⑥ **Clear** : it removes Data List and initializes Data Count and Total Count into default value (0).
- ⑦ **Remove** : It removes all the data stored in the equipment.


 All That Identification		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.4.2. How to load stored data

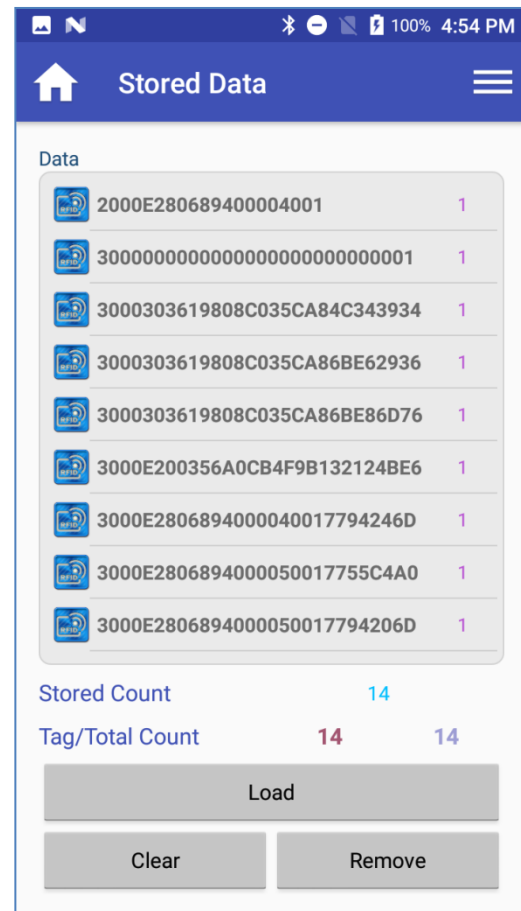
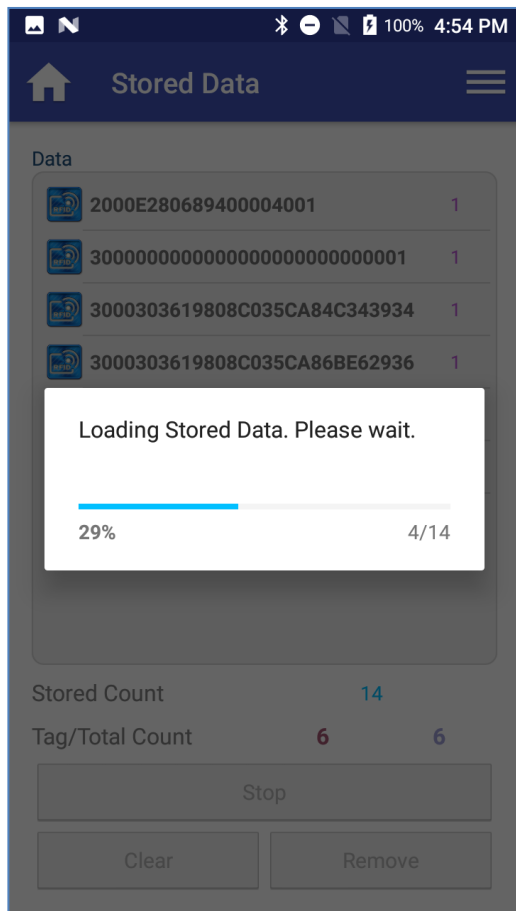
check Stored Count on the screen of Stored Data. You are able to display the data stored in the equipment on the screen if any.


Touching the Load button makes it possible to begin reading data from the equipment.



		ATID Reader SE Demo Guide for Android					
All That Identification		Android Demo Guide Manual				Company	ATID Co.,Ltd
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

A dialog box called progress bar will display once starting to read data from the equipment.
You will see the situation reading data from the equipment through progress bar.
Once reading of all stored data is complete the dialog box, progress bar, will disappear, all the data read in will output on Date List, and updating of Data Count and Total Count will be made.



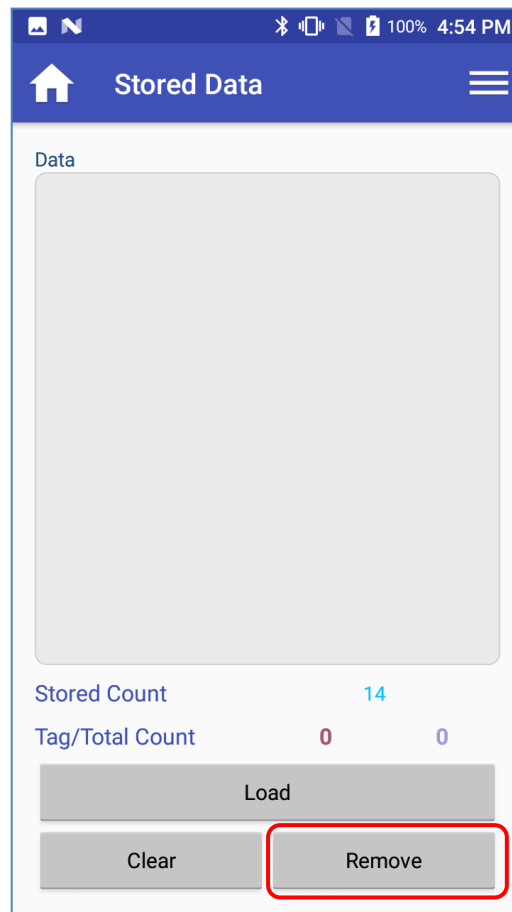
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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.4.3. How to remove all stored data

remove all stored data in the equipment if it is read in from the equipment.

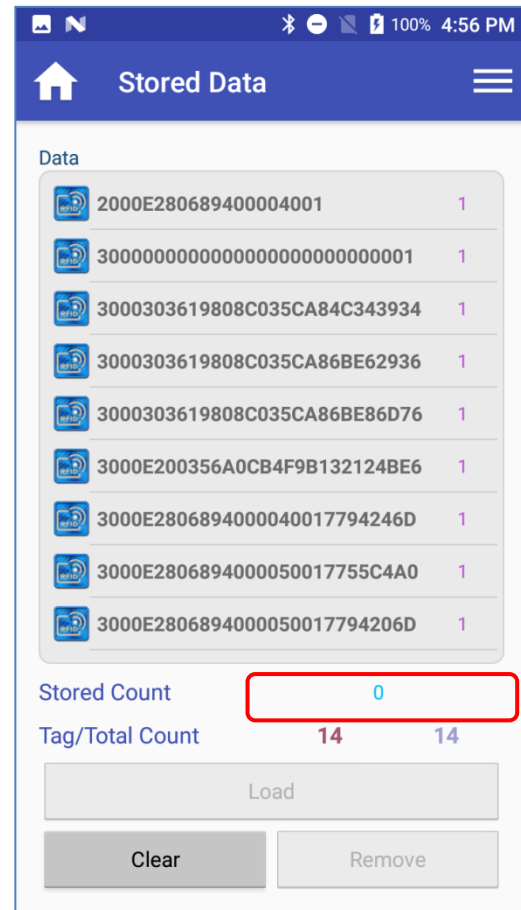
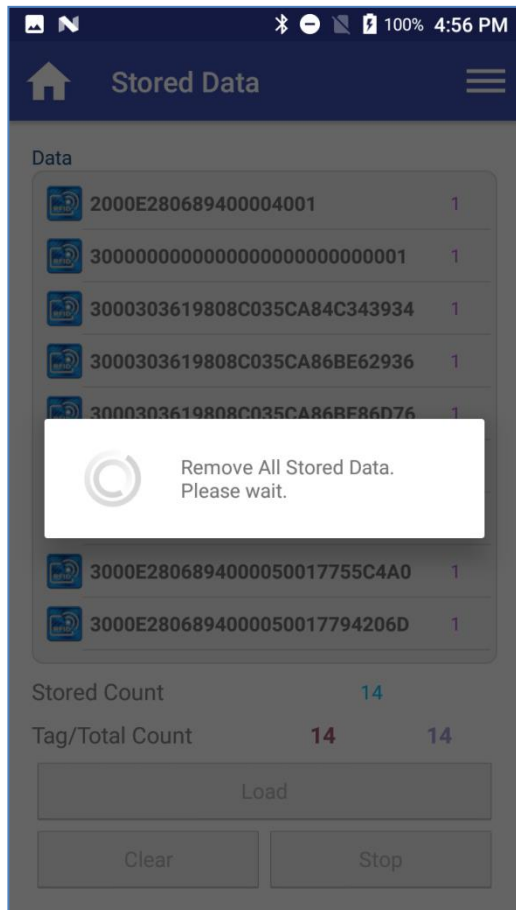
On Stored Data Screen there is a way to remove all the data stored in the equipment.

All stored data in the equipment will be removed by touching on the Remove button at the bottom right of the screen.




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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

Time for removing the stored data will be different depending on the quality of the stored data. Progress bar will display during the removal of the data, informing you that it currently being deleted.



The progress bar will disappear once all the stored data is deleted. You will also check that the value of Stored Count becomes "0."

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

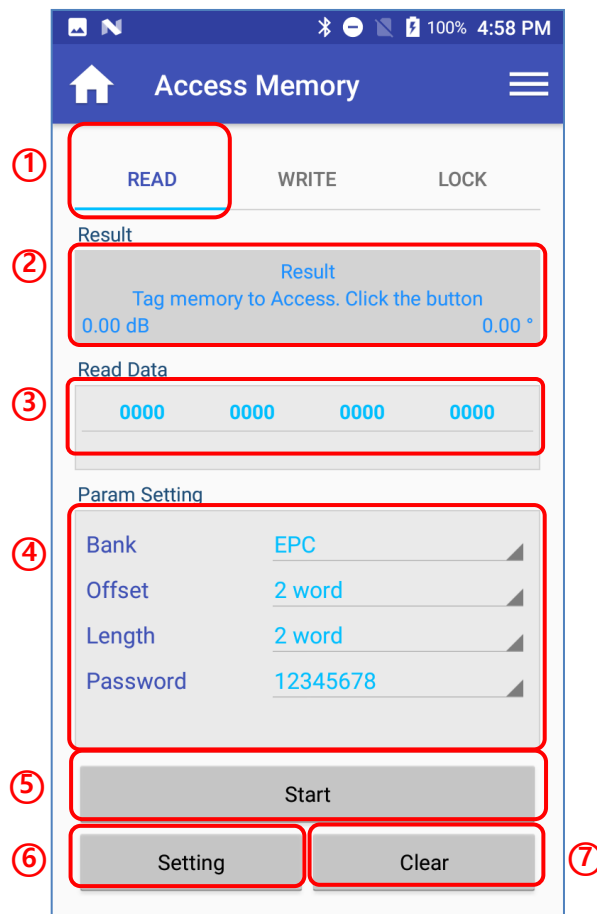
3.5. Access Memory

3.5.1. Read Memory


In Read Memory Demo, you can use the function to designate and read RFID tag memory in the functions of RFID (UHF)

3.5.1.1. Screen Composition

Read Memory's structure is as follows.



- ① **Action Mode:** it sets the operation mode of Read, Write, and Lock Memory Access.
- ② **Result :** it outputs the EPC value of RFID Tag accessed by the equipment, the result of operation after the equipment reads RFID Tag, RSSI, and Phase.
- ③ **Read Data :** it outputs the data read by the unit of Word if the equipment reads RFID Tag.
- ④ **Param Setting :** it sets for Read Memory.
- ⑤ **Start :** it helps the equipment conduct the function of Read Memory.
Once Read Memory starts working, it will be changed to Stop Button.
- ⑥ **Setting :** it moves the screen in which you can set the Option relating to RFID movement.
- ⑦ **Clear:** it initializes Result, Read Data, and etc.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.1.2. How to change read memory option

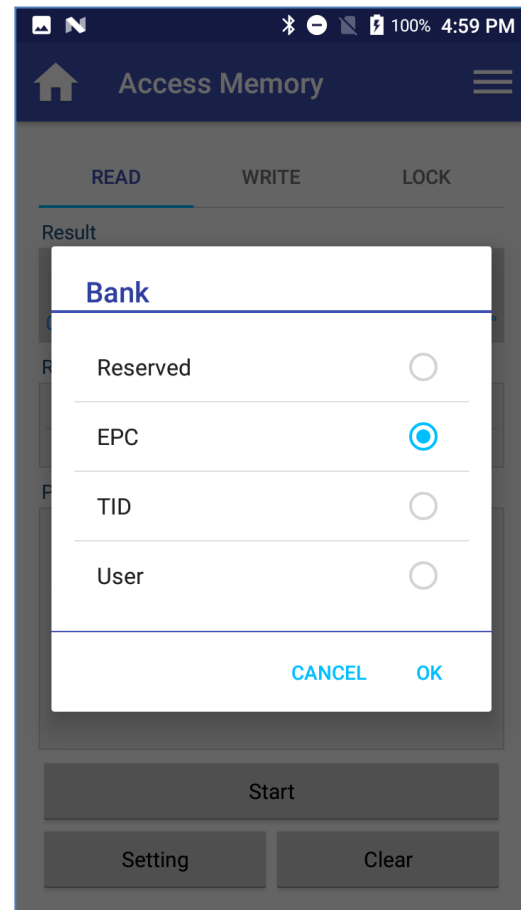
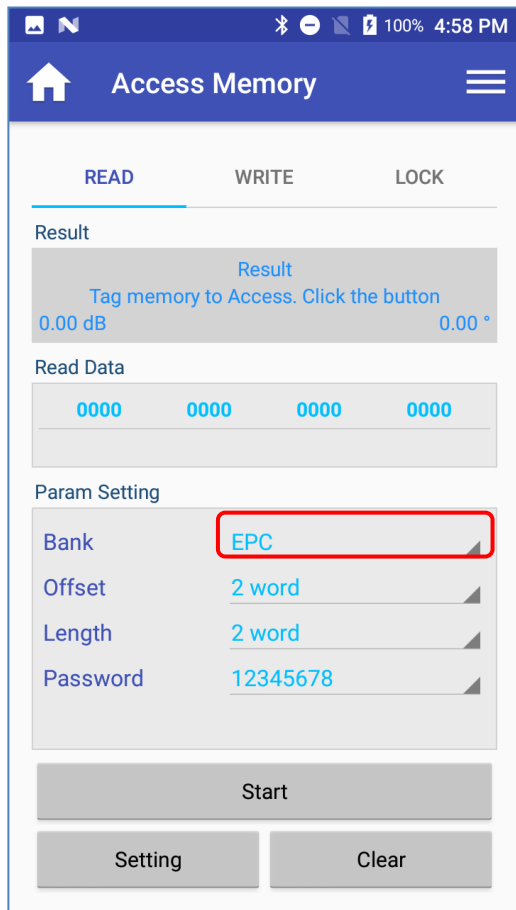
In Param Setting, you can set the necessary information for Read Memory.


For Read Memory, designate the Memory Bank of Tag to read, addresses to read in the designated Memory Bank, and the length of the Memory to read with the unit of Word.

3.5.1.3. Bank

Bank Option sets a memory of RFID Tag by performing Read Memory.

Tag Memory Bank you can read in the Tag consists of Reserved, EPC, TID, and User.

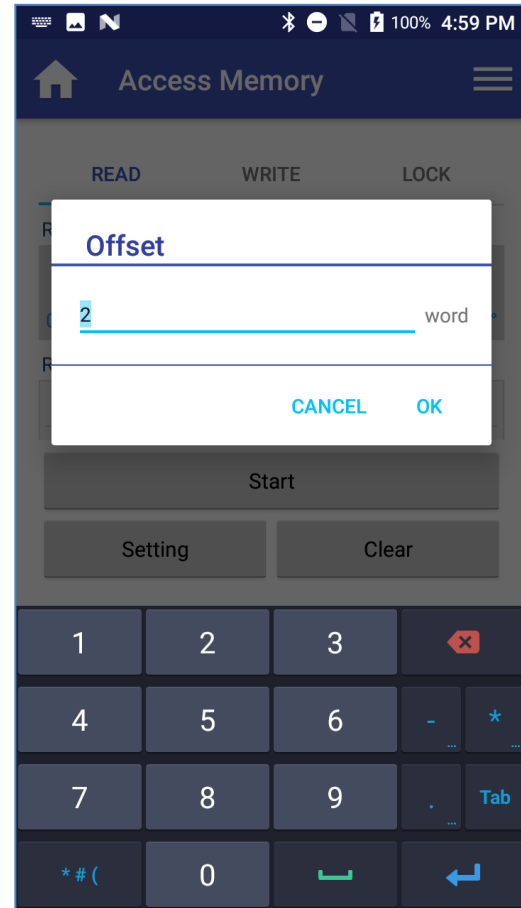
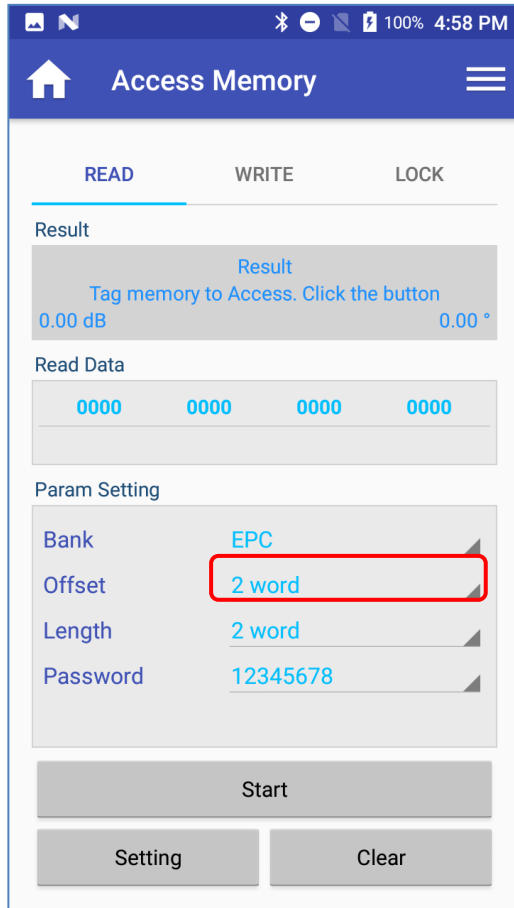



		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.1.4. Offset

Offset designates the start address to begin reading the data of the designated Bank by performing Read Memory.

The unit to designate is WORD.

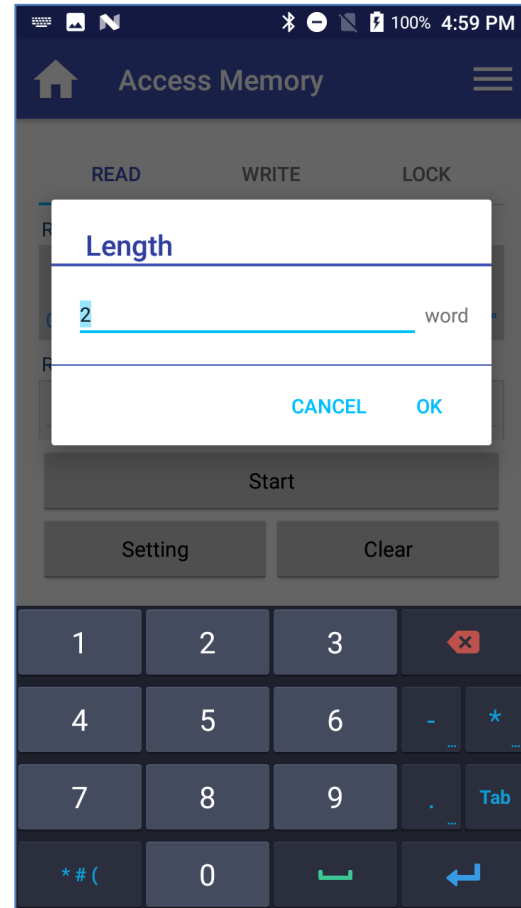
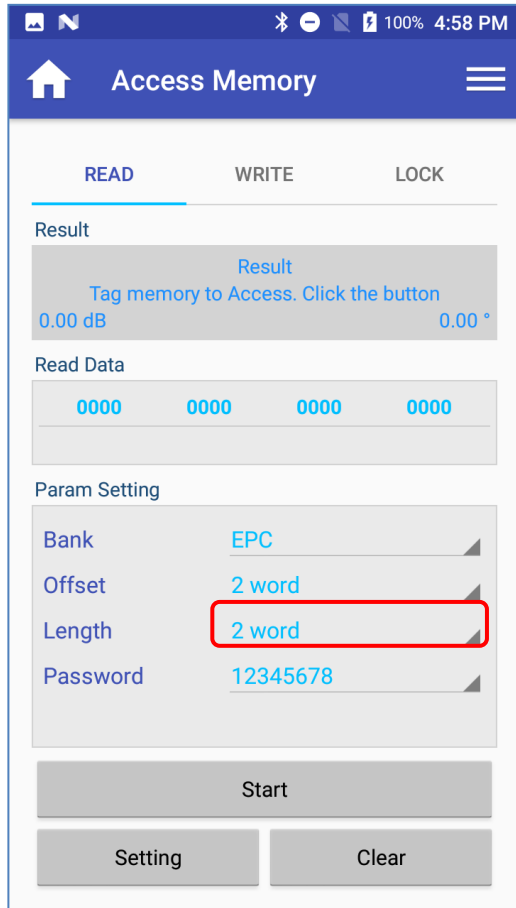


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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.5.1.5. Length

Length Option designates the length to read the data of the designated Bank by performing Read Memory

The unit to designate is WORD.

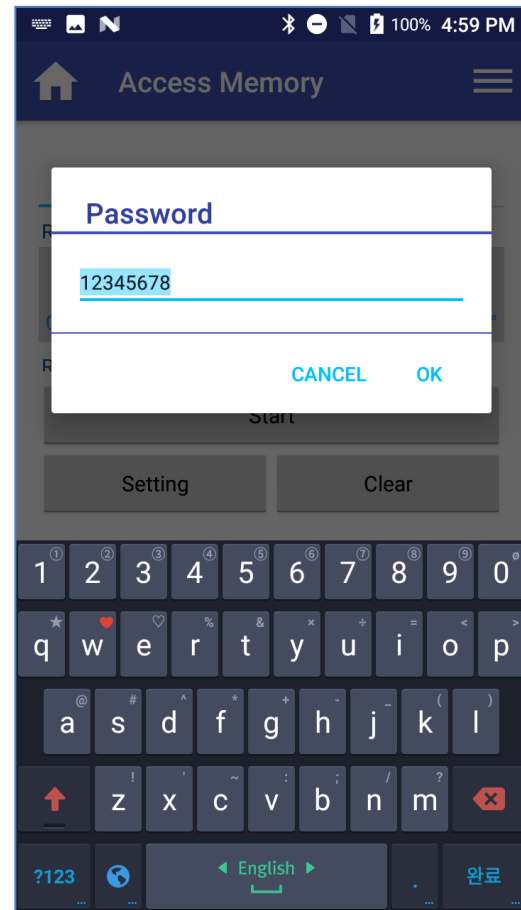
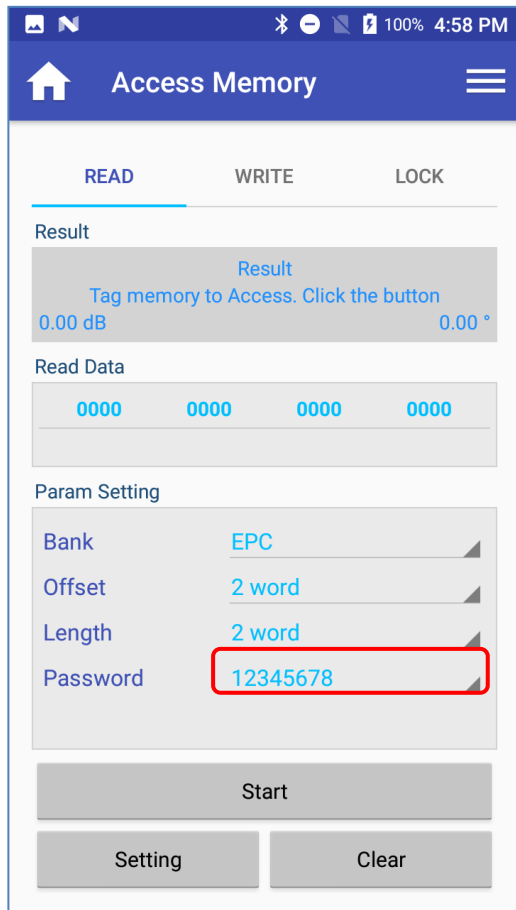


※ The maximum length of the data which is able to read once by using Read Memory is 64WORD.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.1.6. Password


Password option is set in the equipment to access to the tag if RFID tag intending to perform Read Memory is locked up.



You will face a situation you may not read the data when RFID Tag is locked up and if it is a reserved bank.

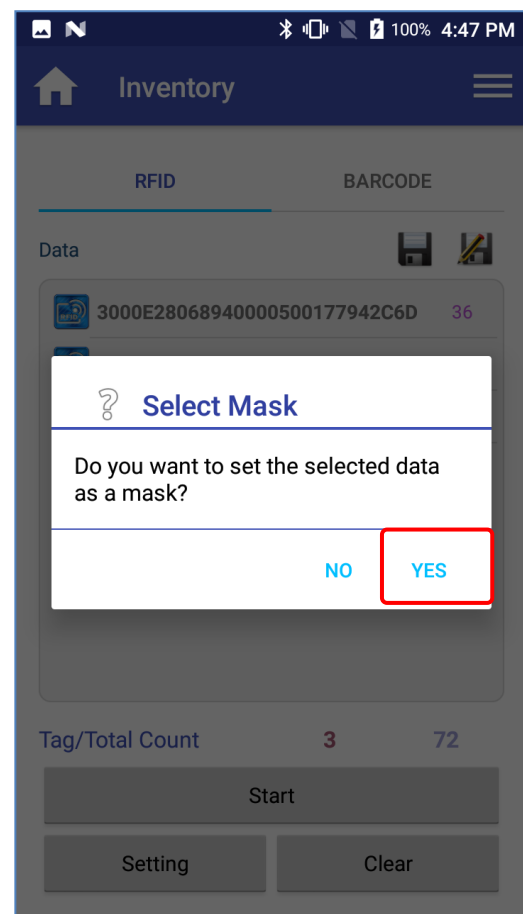
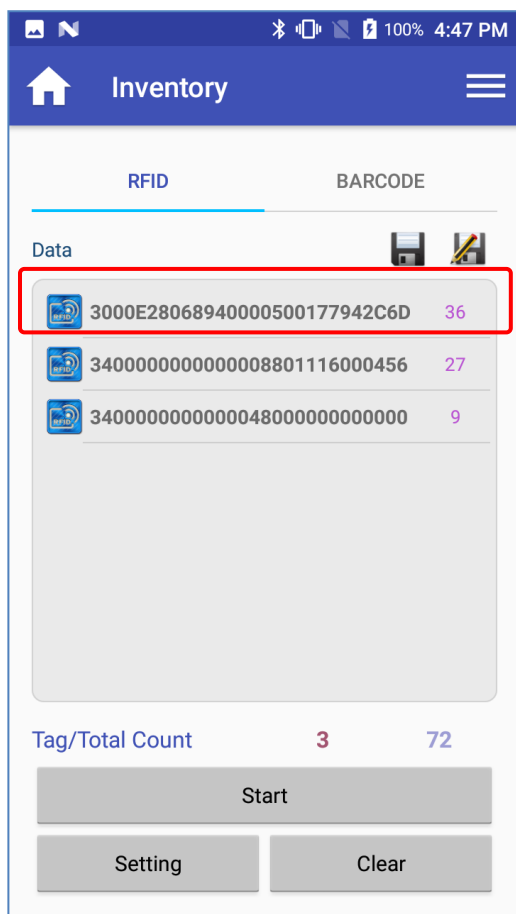
Set a password identical to Access Password and perform Read Memory in the tag if you want to read the data of the Reserved Bank.

Consequence of performing Read Memory if the password is different from Access Password stored in RFID Tag.


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.1.7. How to read tag memory

We will read the value of EPC as 4WORD in the scope of EPC of a specific RFID tag to test the reading of RFID Tag. The start address of the value of the scope of EPC begins with 2WORD. Generally, before performing Read Memory, access to Tag Memory by hanging a tag searched through inventory to Selection Mask based on EPC search for a tag intended to read Memory by conducting inventory on the screen of inventory.



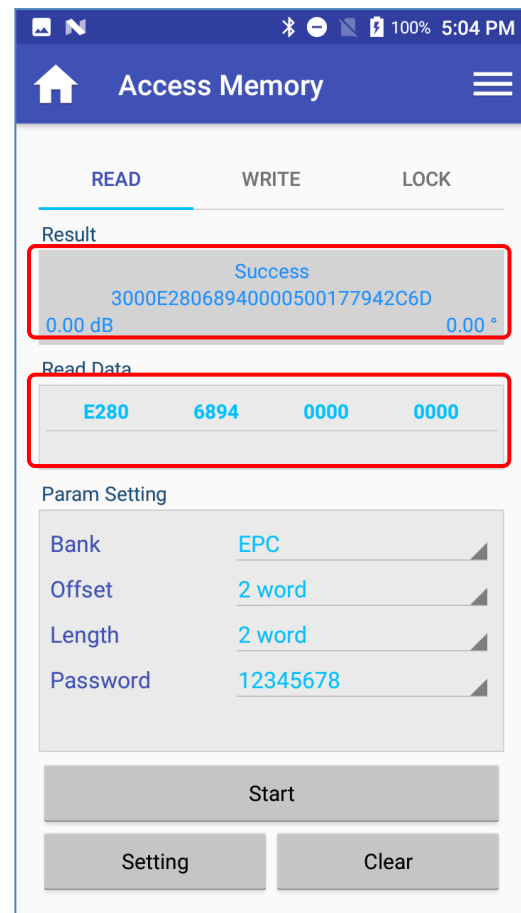
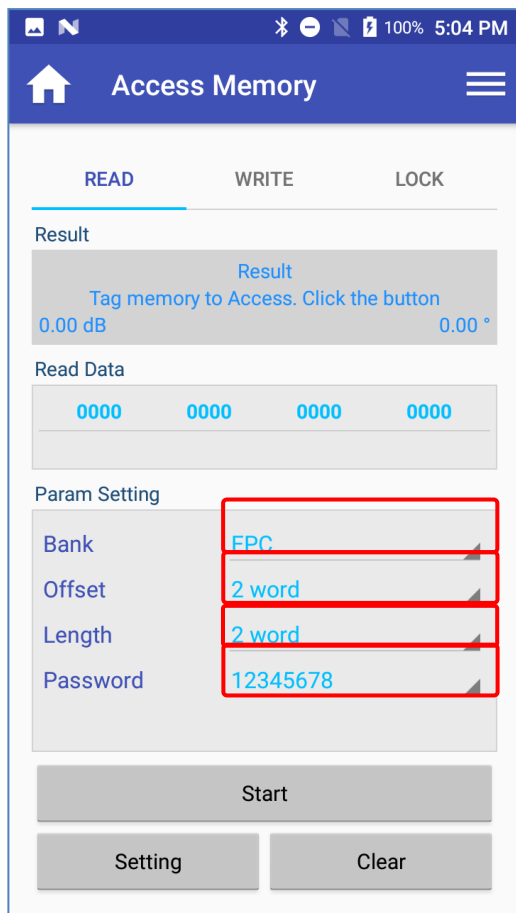
Set Selection Mask by touching the RFID tag searched long as soon as a RFID tag you want to access to be found in inventory and stop conducting it. You may go to the next step if you want to read a random tag

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

It will go to Access Memory from main menu if you set Selection.

choose memory bank as EPC to read RFID tag by Read Memory Parameter on the screen of Read Memory and fit the start address as 2WORD and the length of reading as 2WORD.


Assume that the Access Password is set to 12345678.



Begin reading Tag Memory by touching Start button when you are ready to read RFID tag memory.

If you read the Tag memory properly, you will print out the EPC value accessed to in the scope of Result, the result of movement after reading RFID tag, RSSI, and Phase.

Also, you will print out the memory value of the tag read to Read Data.

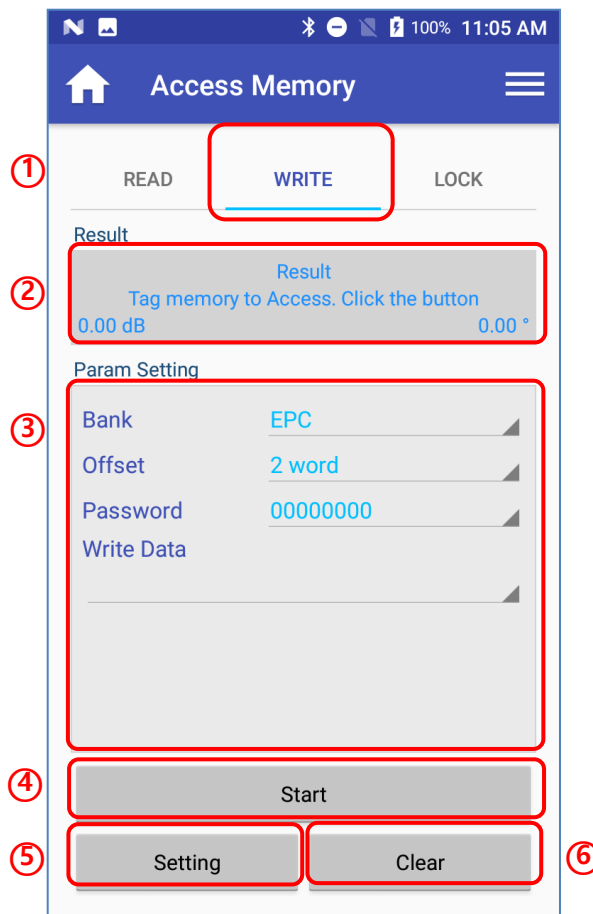
		ATID Reader SE Demo Guide for Android					
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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.2. Write Memory


In Write Memory Demo, you can use the function which enables to data in the designated memory for RFID tag among the functions of RFID (UHF).

3.5.2.1. Screen Composition

Write Memory Demo consists of the following items shown in the figure below.



- ① **Action Mode:** it sets the operation mode for Read, Write, and Lock Memory Access.
- ② **Result :** it will print out the EPC value of RFID tag accessed to by the equipment, the result after the equipment used the data of RFID tag, RSSI, and Phase.
- ③ **Param Setting :** it will set for Write Memory.
- ④ **Start :** it will enable the equipment to perform the function of Write Memory.
It will go to Stop button once Write Memory begins to work.
- ⑤ **Setting :** it will move into the screen in which you can set the option relating to RFID operation.
- ⑥ **Clear:** it will initialize results.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.2.2. How to change write memory option

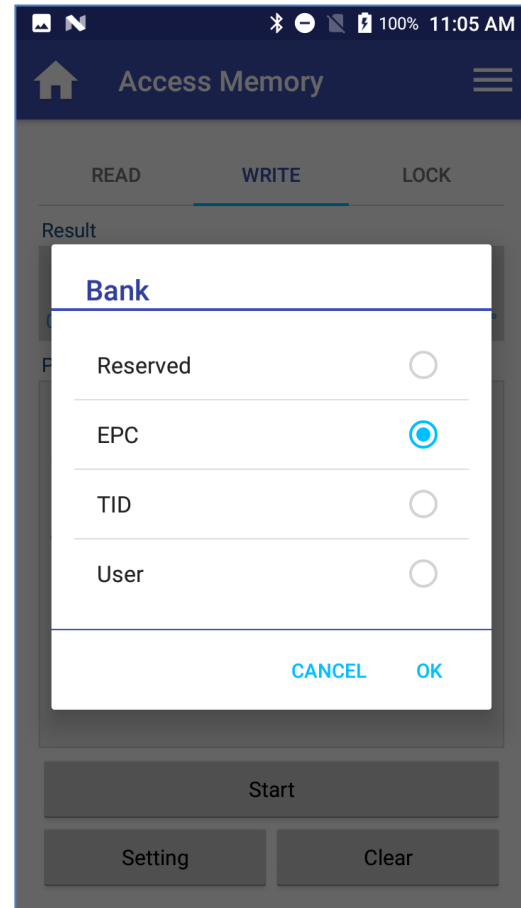
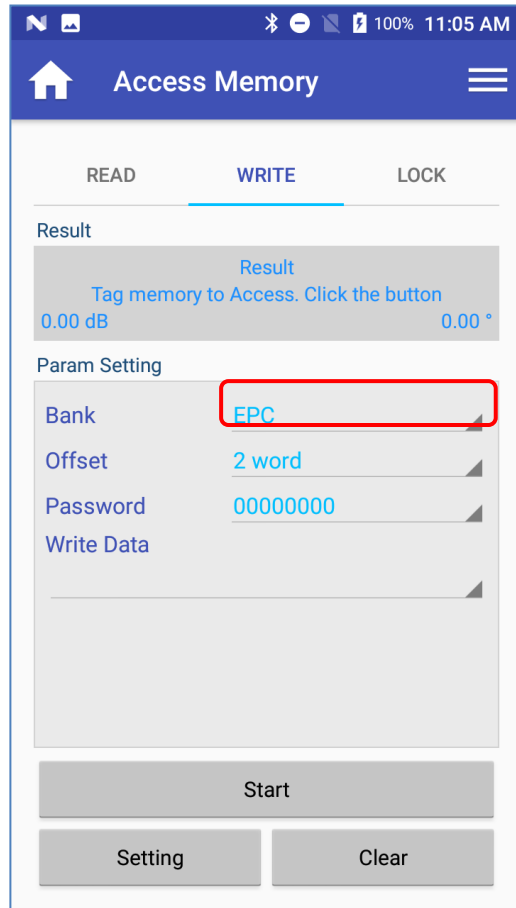
Param Settings is able to set the necessary information for Write Memory


For Write Memory, designate the unit of Word for the memory bank for the tag intending to its data and the start address to be used in the designated bank and the data intending to use as 4Word

3.5.2.3. Bank

In Bank Option, you can set use data for a RFID tag memory by conducting Write Memory.

The memory banks in which you can use the data in tag includes Reserved, EPC, TID, and User.

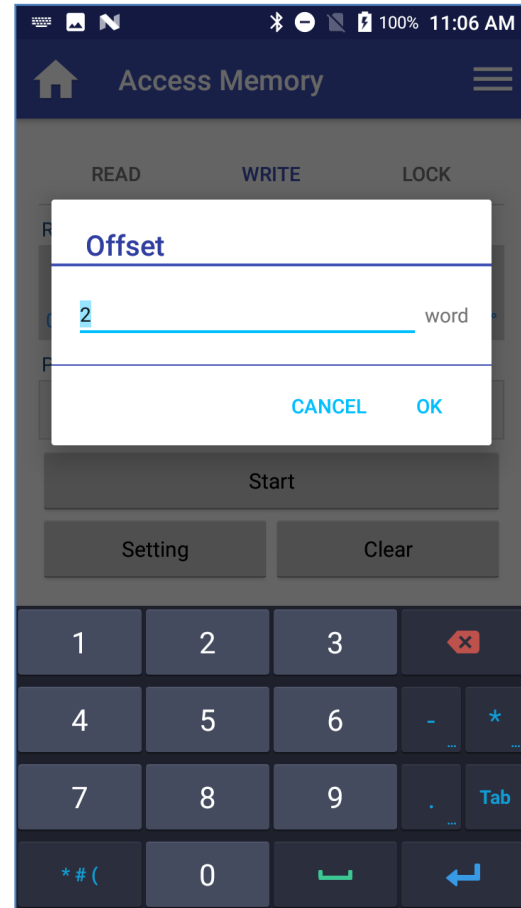
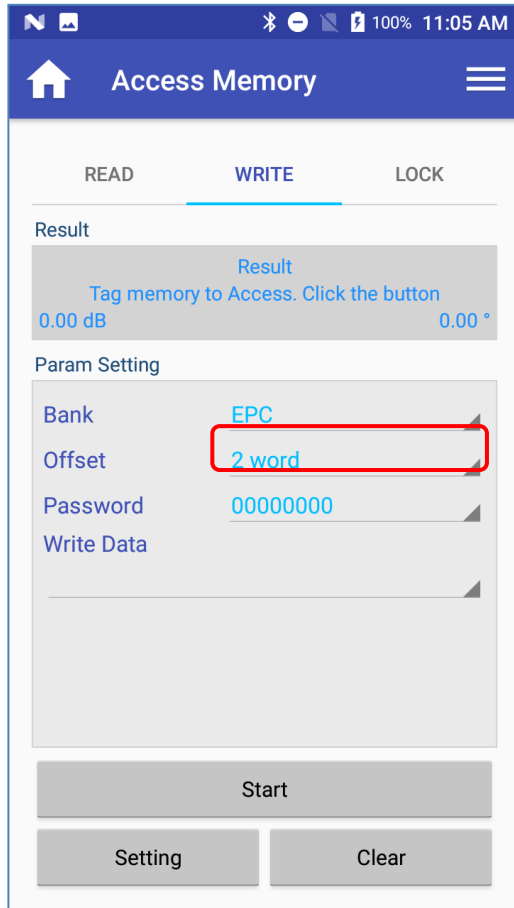



		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.2.4. Offset

Offset option will set the start address in the designated memory bank by performing Write Memory.

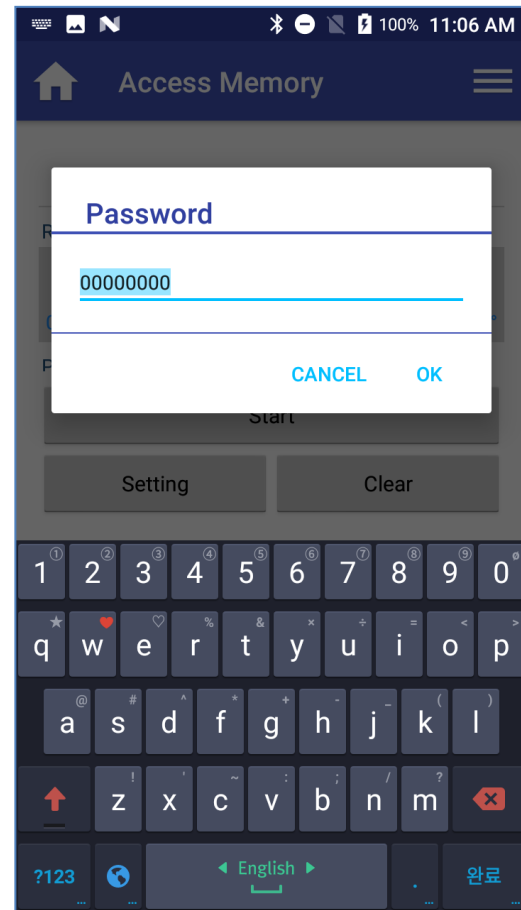
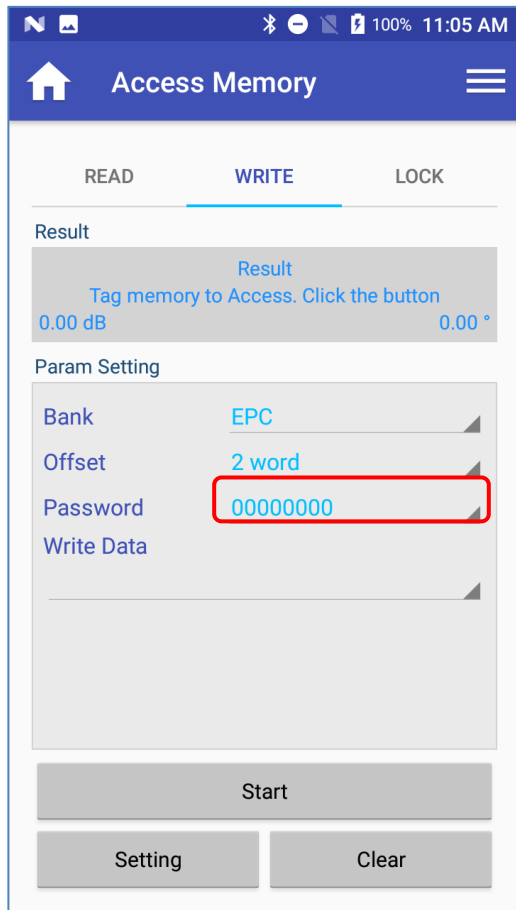
The unit enabling to designate is WORD.



		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.5.2.5. Password

In Password option, set the equipment intending to access to tag if RFID tag for Write Memory is locked up.



You cannot use data in the bank locked when RFID tag is locked up.

Set a password identical to Access Password and then perform Write Memory in the tag if you want to use the data in the specific designated memory which is in lock mode. The consequence of performing Write Memory will be in failure if the password is different from Access Password stored in RFID tag.

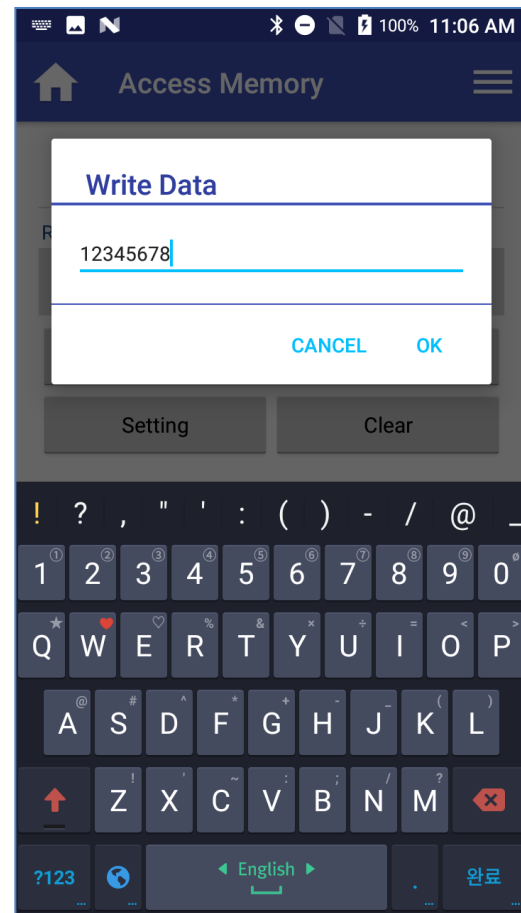
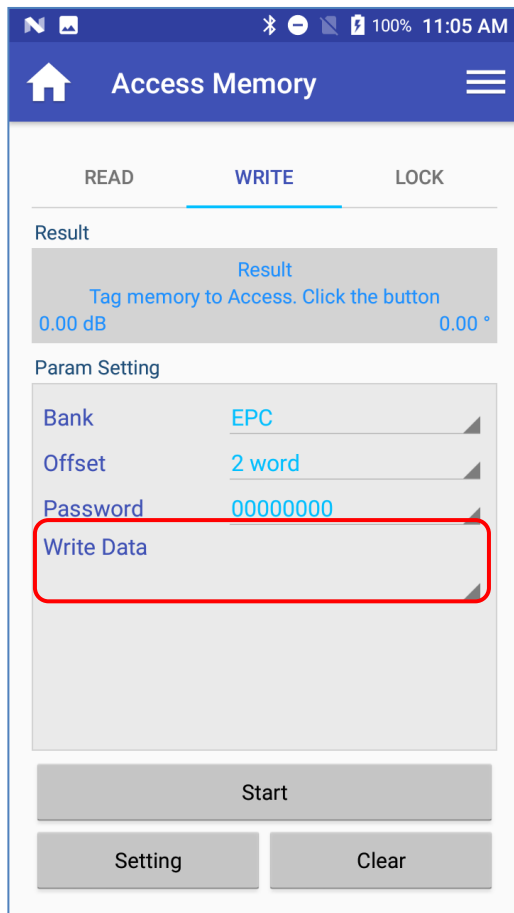
		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.2.6. Write Data


Write Data Option will input data in the designated bank by performing Write Memory.

The data input is HEX value.

The data input shall be 4WORD as the unit (4 words).



※ the maximum length which you can use once with Write Memory is 32WORD (32 words).

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.2.7. How to write tag memory

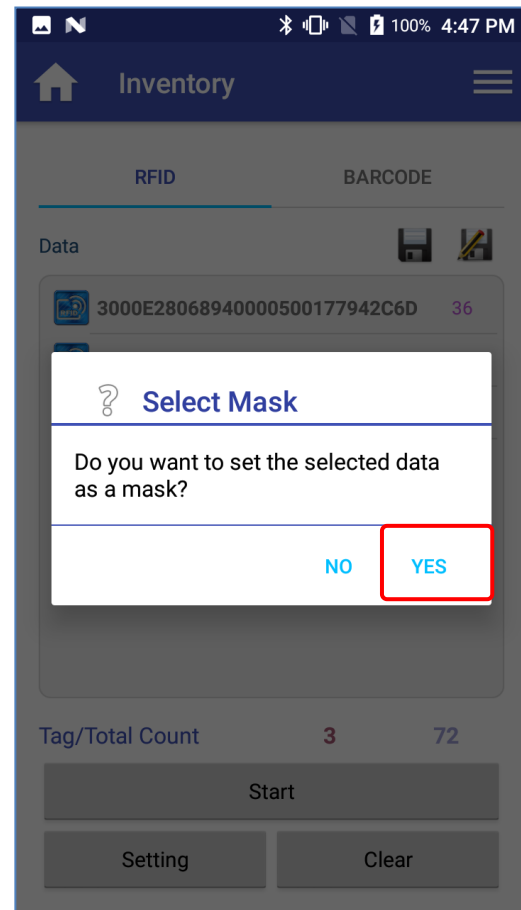
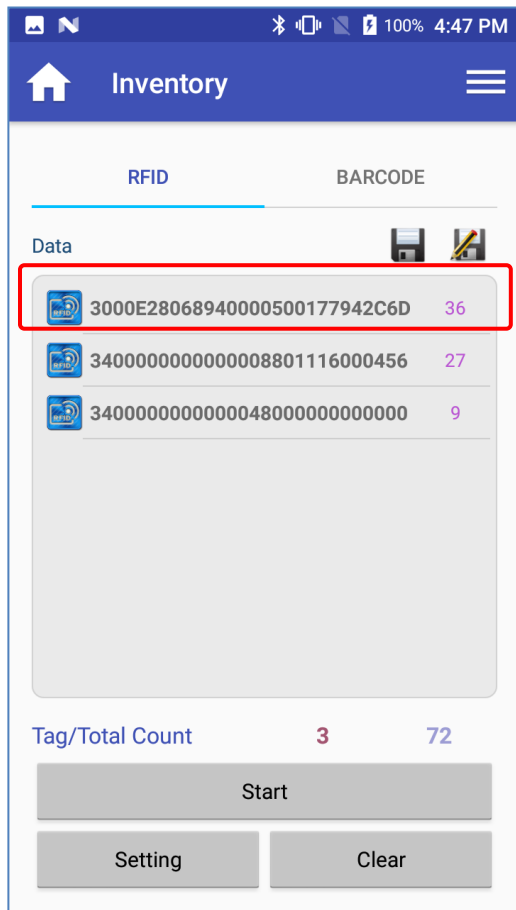
We will use 2Word as the value of EPC in the scope of EPC of the designated RFID tag for testing the tag.

The value to be used in the scope of EPC is "12345678" in the form of HEX.


The start address for the EPC value in the scope of EPC begins with 2WORD.

Generally, search for a tag with inventory and connect to tag's memory by hanging a tag to Selection Mask based on EPC in order not to be used in other tag.

Search for a tag intending to read memory by performing inventory on the screen of inventory.

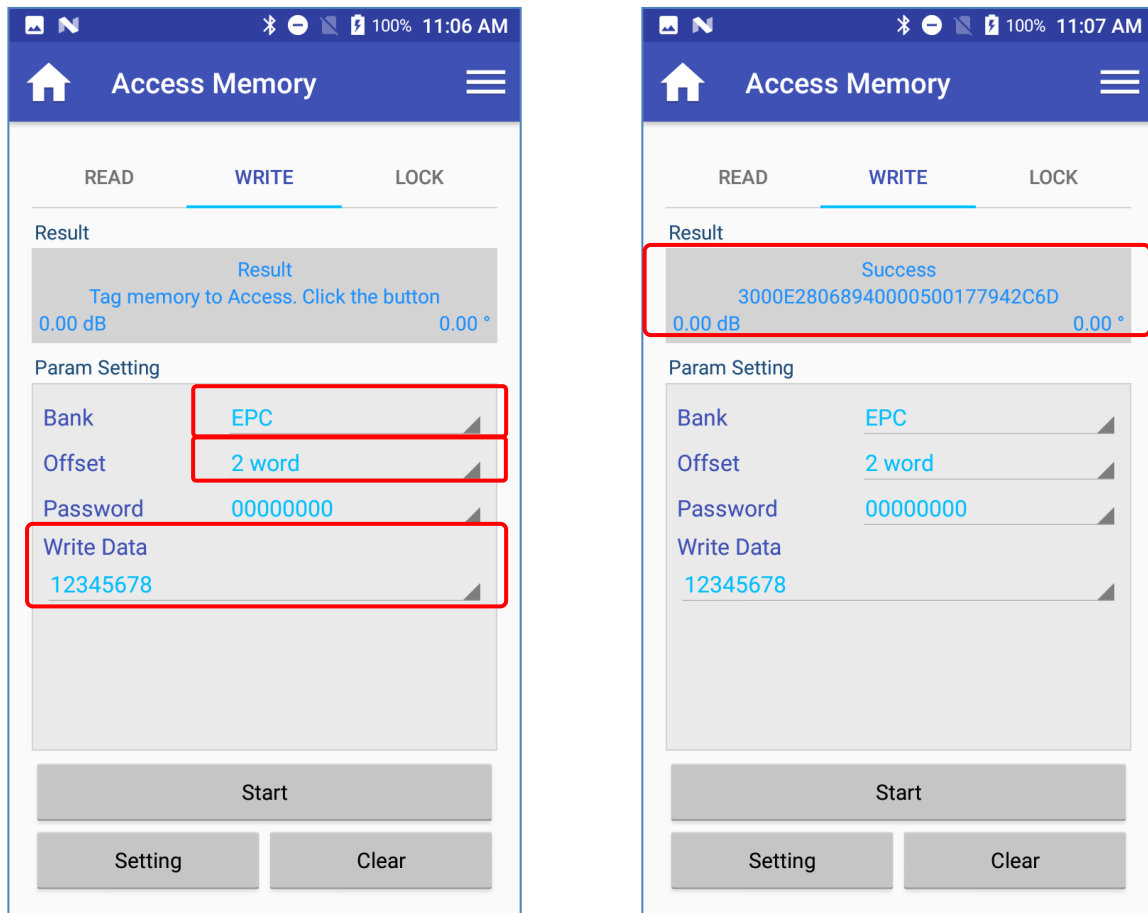


stop conducting inventory if a RFID tag you want to access to in inventory is found and set Selection Mask by touching on the found RFID tag.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

If Selection Mask is set, move to Access Memory in the main menu.


select the memory bank which you want to use in EFID tag from Param Setting on the screen of Write Memory with EPC and set the start address with 2 WORD. And then input the data value in Write Data



If you are ready to use the data in the memory of RFID tag, write data in the memory of the tag by touching Start button.

If data is properly written in the memory of the tag, print out consequence of access in the scope of Result, EPC of the tag accessed to, RSSI, and Phase

If data in the scope of EPC is changed from the value of the previous EPC, you should unlock the set-up of Selection Mask as it differs from the value of EPC set in Selection Mask.

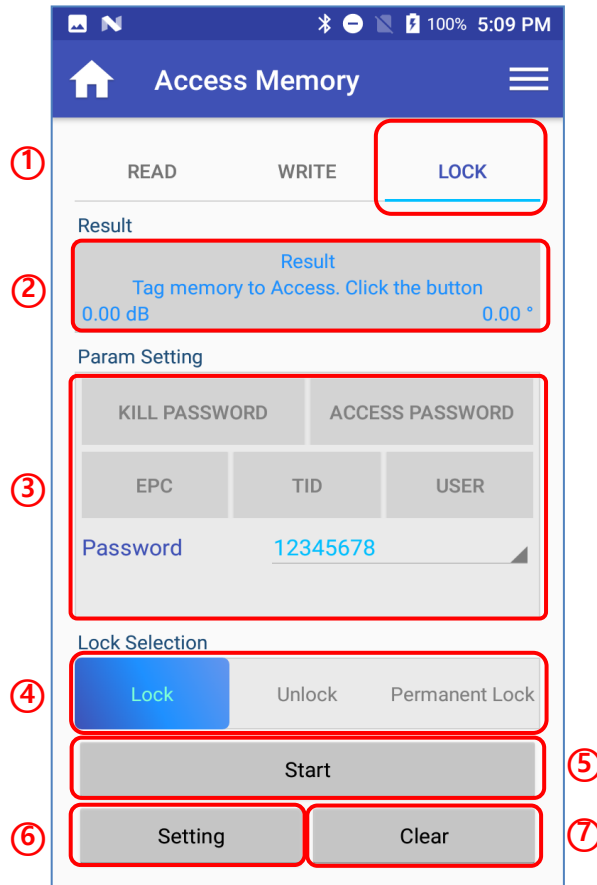
		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.3. Lock Memory


In Lock Memory Demo, you can use the function to lock or unlock in the functions of RFID (UHF).

3.5.3.1. Screen Composition

Lock Memory Demo consists of the following items as shown in the figure.



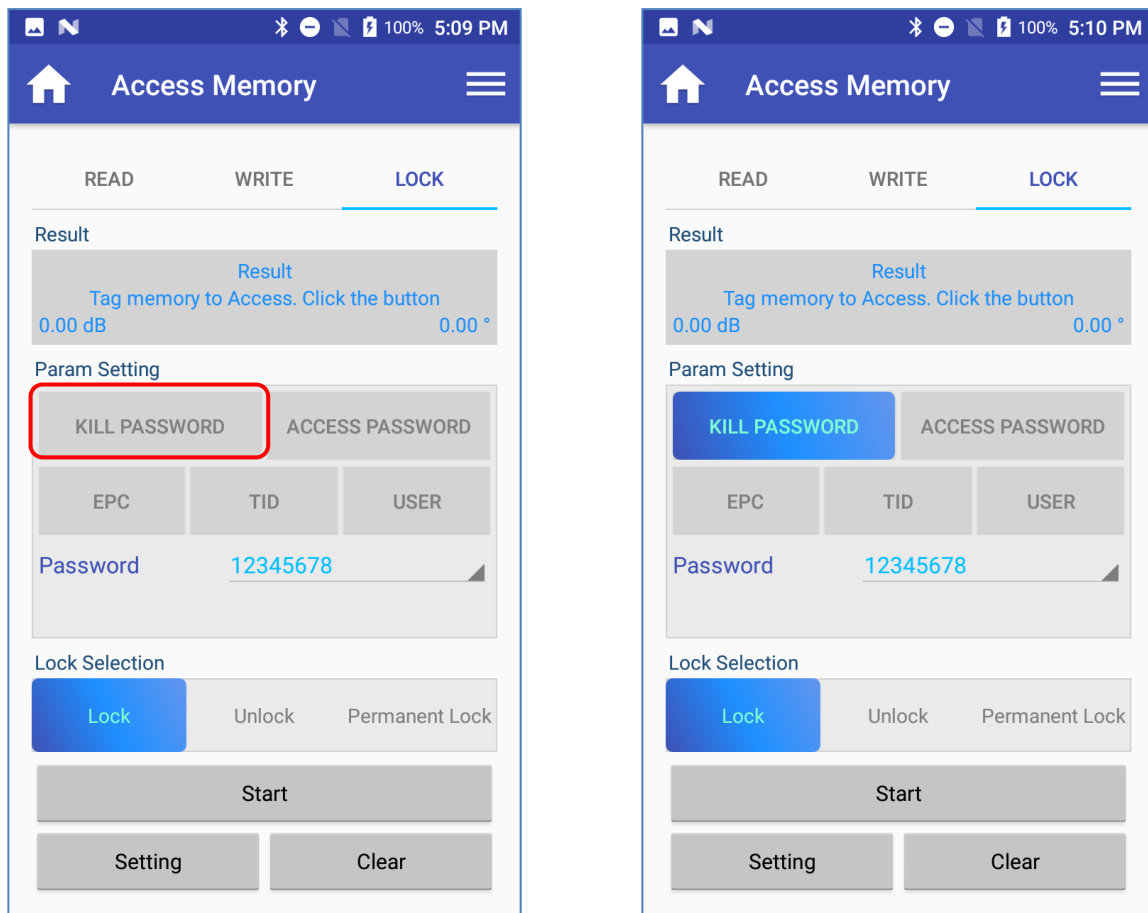
- ① **Action Mode:** it sets the operation mode for Read, Write, and Lock Memory Access.
- ② **Result :** the equipment will print out the results of lock or unlock action of RFID tag as message.
- ③ **Param Setting :** It sets for Lock Memory.
With 2WORD Password, it sets Access Password for RFID tag.
It will be stored in the scope of Access Password of RFID Tag in Reserved Bank.
- ④ **Lock Select:** It enables the equipment to select an action against the tag such as lock, unlock, or permanent lock.
- ⑤ **Start :** it enables the equipment to carry out the selected function of lock, unlock, or permanent lock from Lock Select.
- ⑥ **Setting :** It enables to move to the screen on which you can set an option relating to actions of RFID.
- ⑦ **Clear:** it initializes Result.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.3.2. How to change lock memory option

3.5.3.2.1. Kill Password


Kill Password option is offset in the reserved scope of RFID tag setting the scope of Kill Password, which is the length from 0 WORD to 2 Word, as the work target when performing Lock, Unlock, or Permanent lock.



You cannot read, write, and disable lock/unlock if you do not set a password with the Access Password established in the tag when the scope of Kill Password is locked either by Lock or Permanent lock.

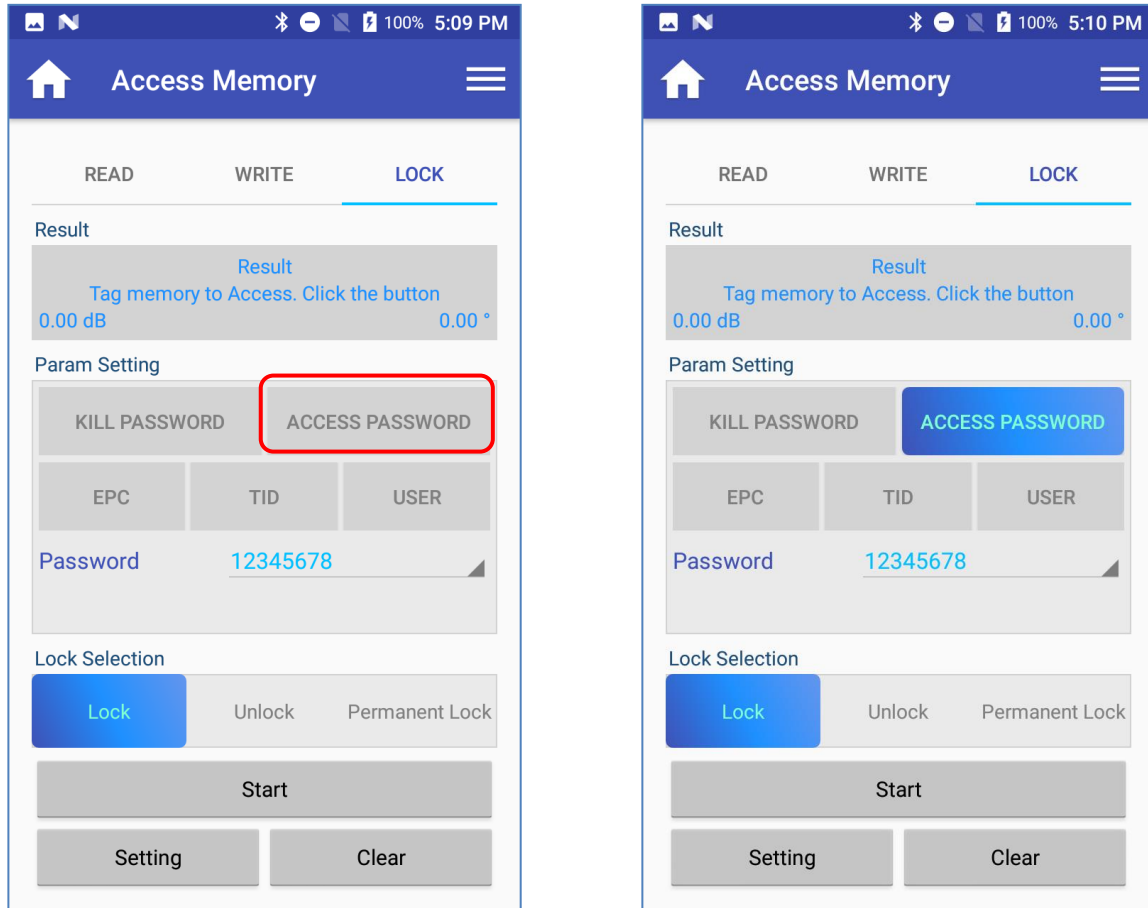
You may set up Kill Password, Access Password, and EPC, TID, and User option in duplicate.

The scope of the overlapping set-up work target will be treated at a time when performing lock, unlock, or Permanent lock.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.3.2.2. Access Password

Access Password option is offset in the reserved scope of RFID tag in the reserved scope setting up Access Password, which is the length from 2 WORD to 2 Word, as the work target when performing Lock, Unlock, or Permanent lock.




You may not read, write, lock, and unlock if you do not set a password with the Access Password set in the tag when the scope of Access Password is locked

You may read but may not write and unlock if you don't set a password with the Access Password when the scope of Access Password is locked by Permanent lock.

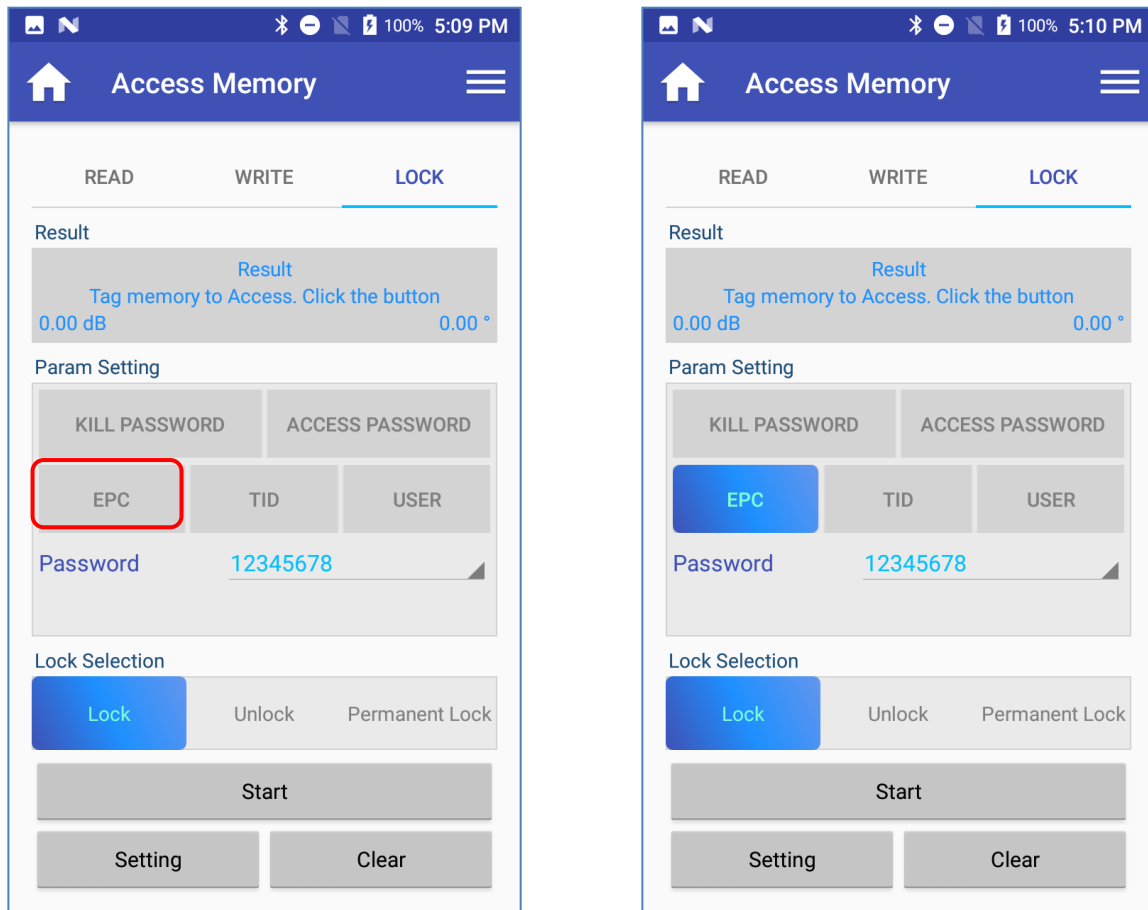
You may set up Kill Password, Access Password, EPC, TID, and User Option in duplicate.

The scope of the overlapping set-up work target will be treated at a time when performing lock, unlock, or Permanent lock.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.3.2.3. EPC

EPC option is to set the EPC bank scope of RFID tag as the work target when performing lock, unlock, and Permanent lock.




You may not read, write, lock, and unlock if you do not set a password with the Access Password set in the tag when the scope of EPC is locked by Lock

You may read but may not write, and disable lock if you don't set a password with the Access Password set in the tag when the scope of EPC is locked by Permanent lock

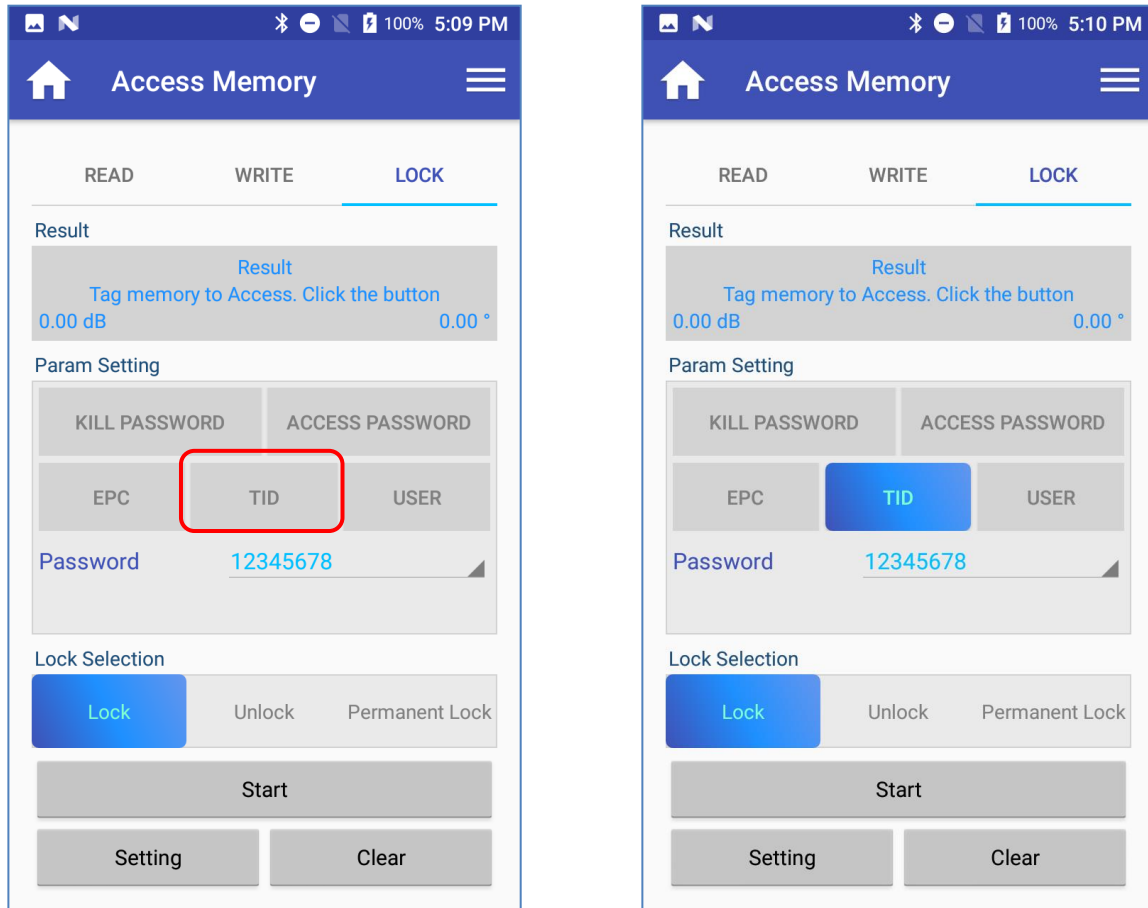
You may set up Kill Password, Access Password, EPC, TID, and User option in duplicate.

The scope of the overlapping set-up work target will be treated at a time when performing lock, unlock, or Permanent lock

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.3.2.4. TID

TID option is to set the TID bank scope of RFID tag as the work target when performing lock, unlock, and Permanent lock.




You may not read, write, lock, and unlock if you do not set a password with the Access Password set in the tag when the scope of TID is locked by Lock

You may read but may not write, and disable lock if you don't set a password with the access password set in the tag when the scope of TID is locked by Permanent lock

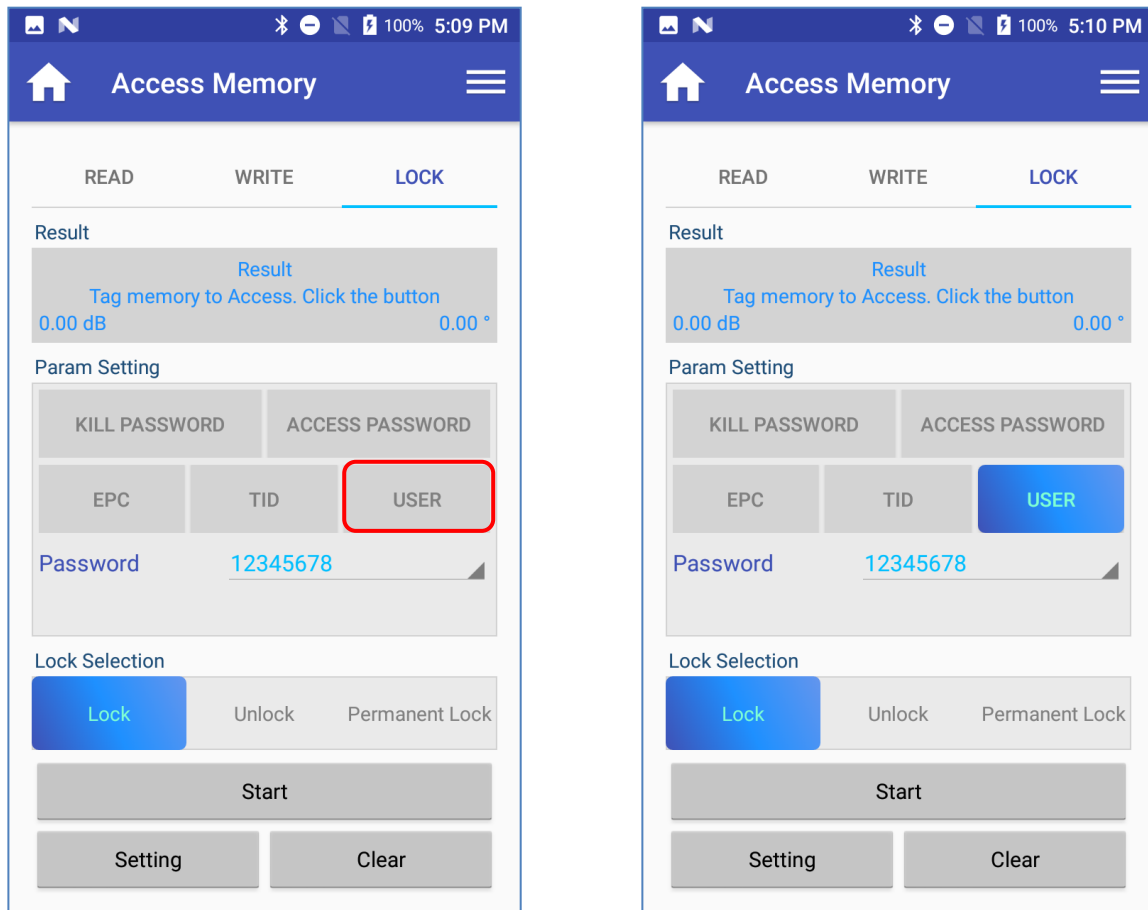
You may set up Kill Password, Access Password, EPC, TID, and User Option in duplicate.

The scope of the overlapping set-up work target will be treated at a time when performing lock, unlock, or Permanent lock.

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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.3.2.5. User

User option is to set the User bank scope of RFID tag as the work target when performing lock, unlock, and Permanent lock.




You may not read, write, lock, and unlock if you do not set a password with the Access Password set in the tag when the scope of User is locked by Lock

You may read but may not write, and disable lock if you don't set a password with the access password set in the tag when the scope of User is locked by Permanent lock.

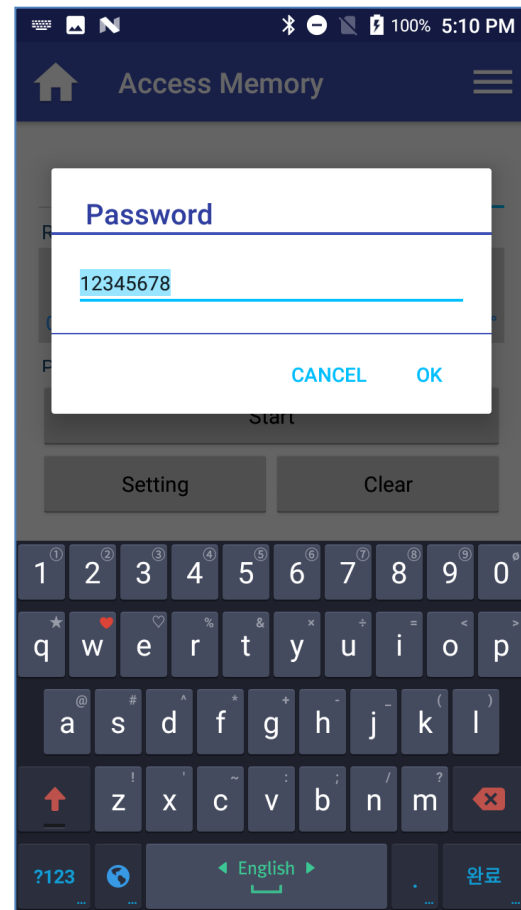
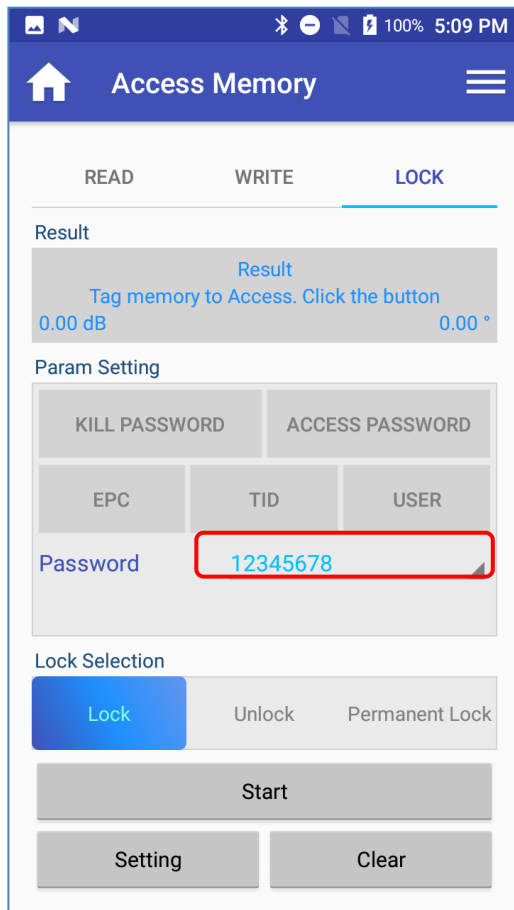
You may set up Kill Password, Access Password, EPC, TID, and User Option in duplicate.

The scope of the overlapping set-up work target will be treated at a time when performing lock, unlock, or Permanent lock.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.5.3.2.6. Password

In Password Option, set in the equipment to access to tag when RFID tag intending to perform Lock, Unlock, and Permanent lock is in Lock.




If RFID tag is in lock mode, you will be in the situation that you cannot lock and unlock in the scope of being locked.

set a password identical to Access password stored in the tag and conduct lock or unlock of the tag if you want to lock or unlock on the specific scope of RFID tag which is in lock mode.

You cannot unlock the specific scope of RFID tag memory which is in Permanent lock.

Your conduct of lock, unlock, and Permanent lock will be in failure if a password differs from the access password stored in RFID tag.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

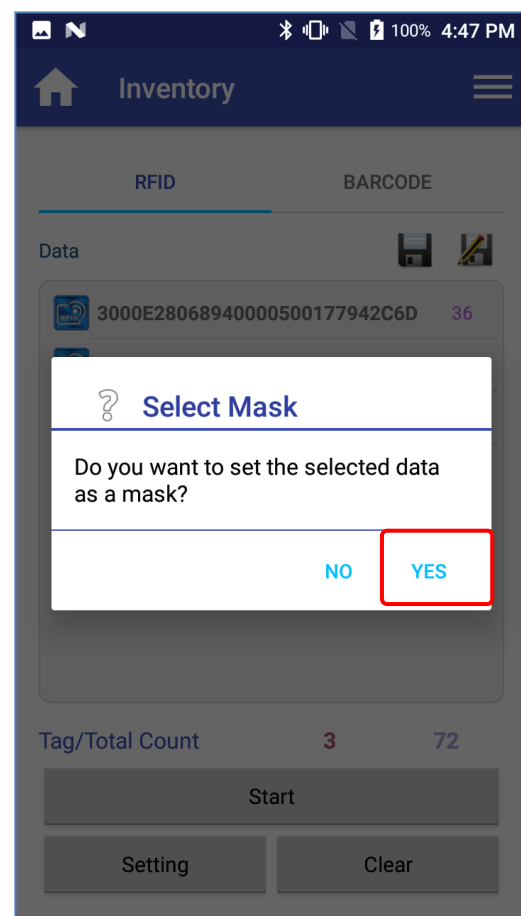
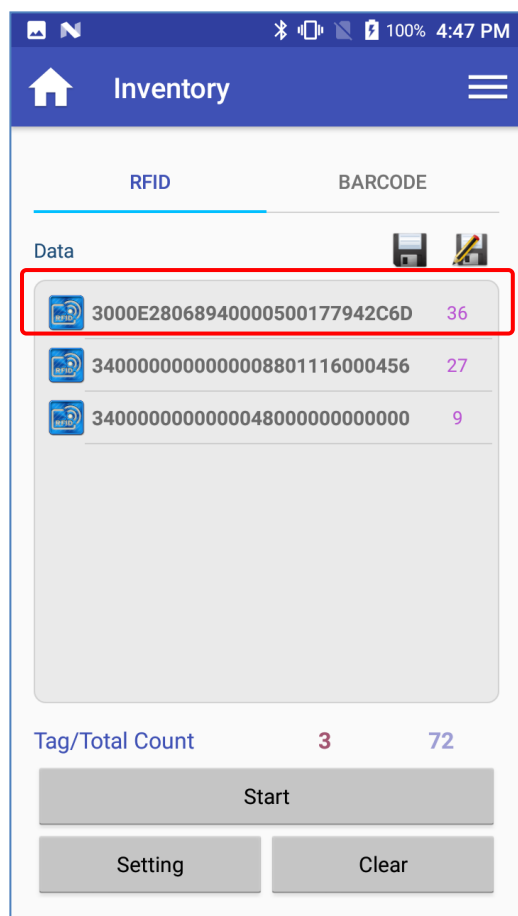
3.5.3.3. How to set access password in tags

We will show set access password in the specific reserved scope of RFID tag and lock on the access password to test how to lock RFID tag.


Access password is the length of 2word starting from 2word in the reserved scope.

Generally ,approach to tag memory by searching for a tag through inventory and hanging a tag to selection mask based on EPC before doing lock memory.

Search for a tag by conducting inventory on the inventory screen.

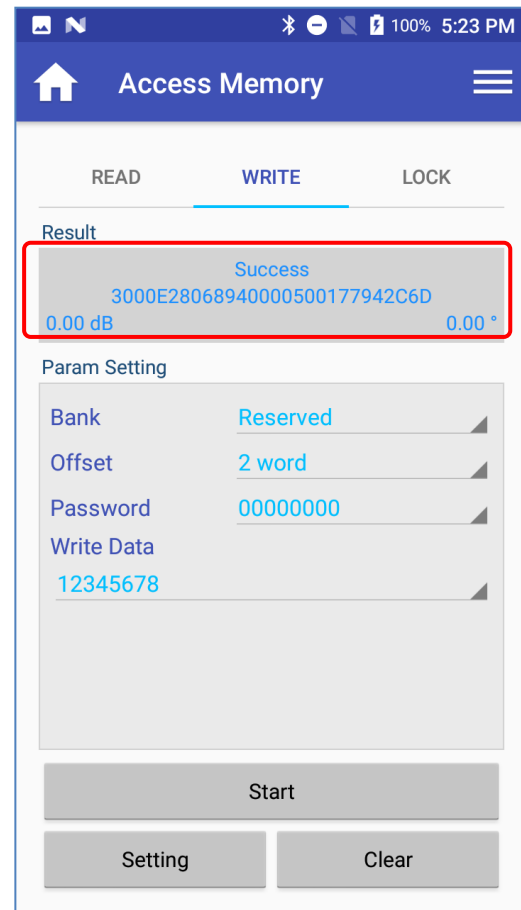
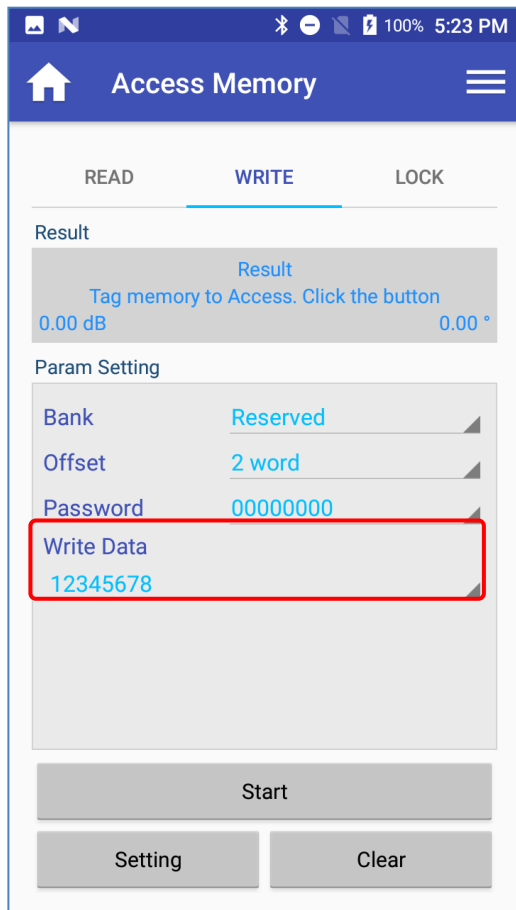


Stop conducting inventory once a RFID tag intended to access in inventory is found and set the RFID tag searched as selection mask by touching and holding on it.


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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

Move to Access Memory from main menu if Selection Mask is set.

Set Access Password in write memory for tag.



It will identically act as the set password on the screen of lock memory if bank on white memory is set reserved, offset is set 2word, and white data is input "12345678" and then if you conduct white memory by touching on white button.

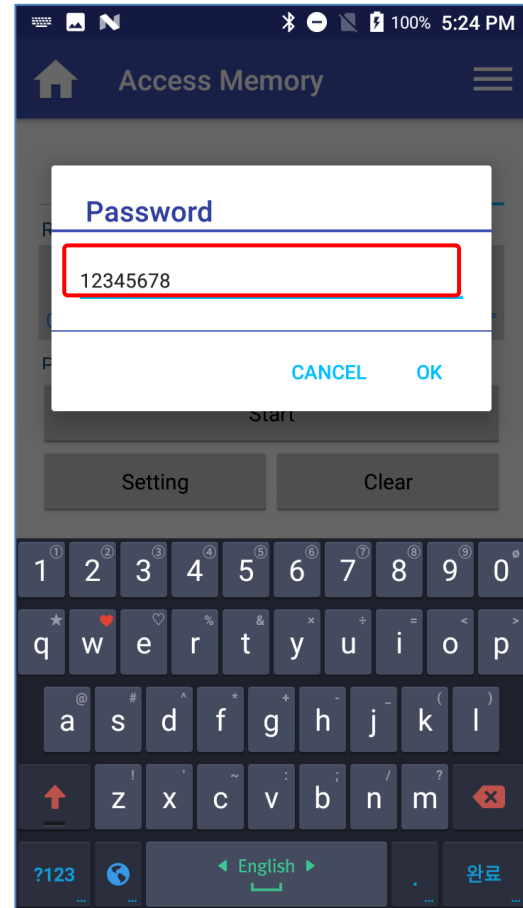
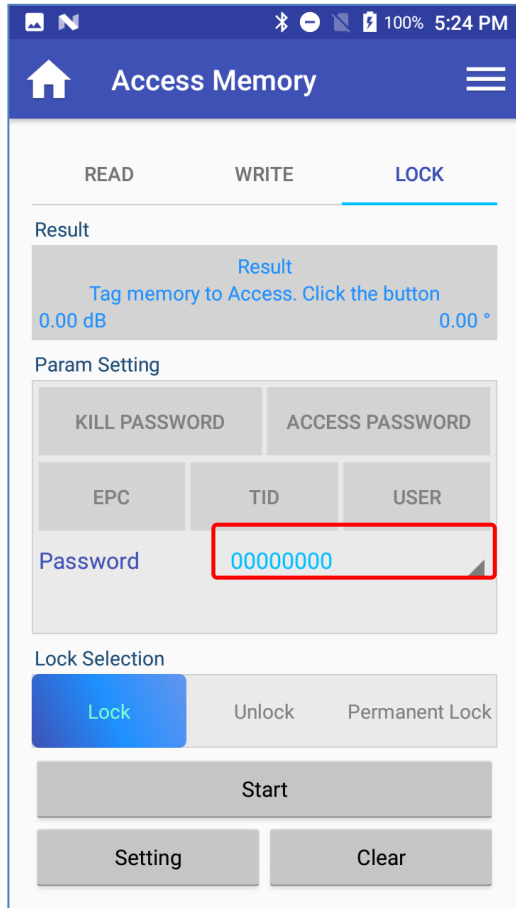
		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


Move to Access Memory from main menu if Selection Mask is set.

In the Lock Memory screen, you can use Access Password easily.

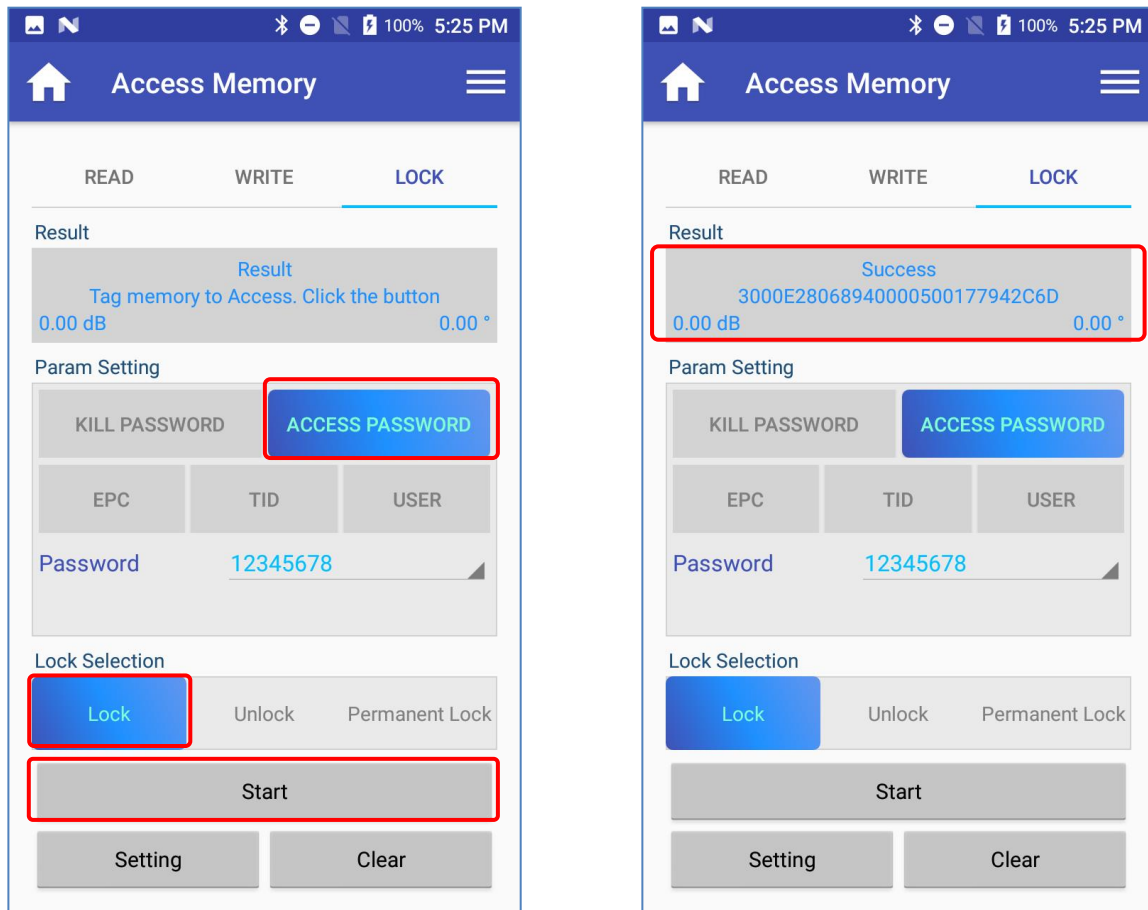
Touch the scope of password and input Access Password intending to set a RFID tag.

Here input "12345678".



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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


choose Access Password from Param Setting and lock from Lock Select in order that Access Password is in lock.



If you are ready to lock RFID tag, touch Start button to let Access Password be in Lock.

If the tag is properly in Lock, print out access result in the scope of Result, EPC of the tag accessed to, RSSI, and Phase

You may not read the data in the scope of access password if access password for RFID tag is not in agreement.

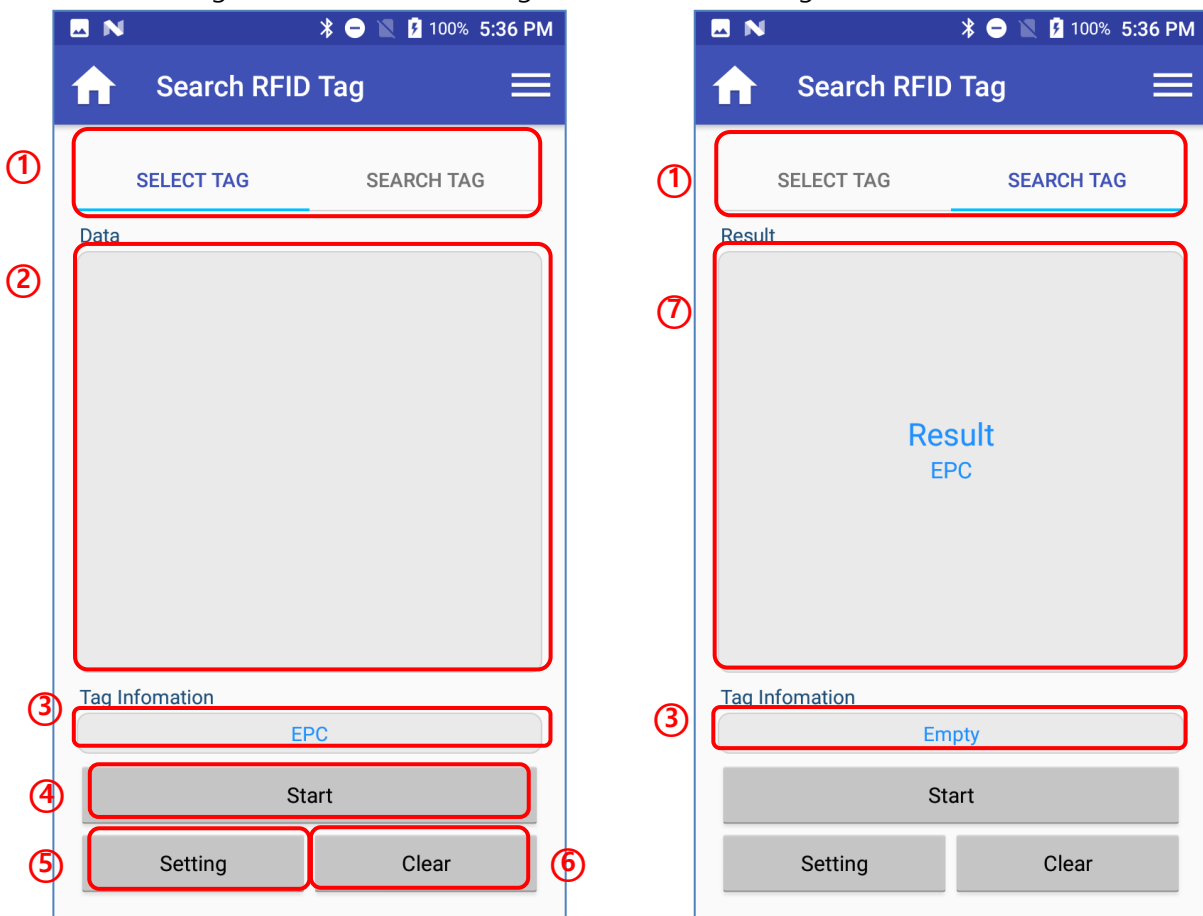
		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.6. Search RFID Tag


Demo for searching specific Tag.

3.6.1. Screen Composition

Search RFID Tag consists of the following items shown in the figure below.

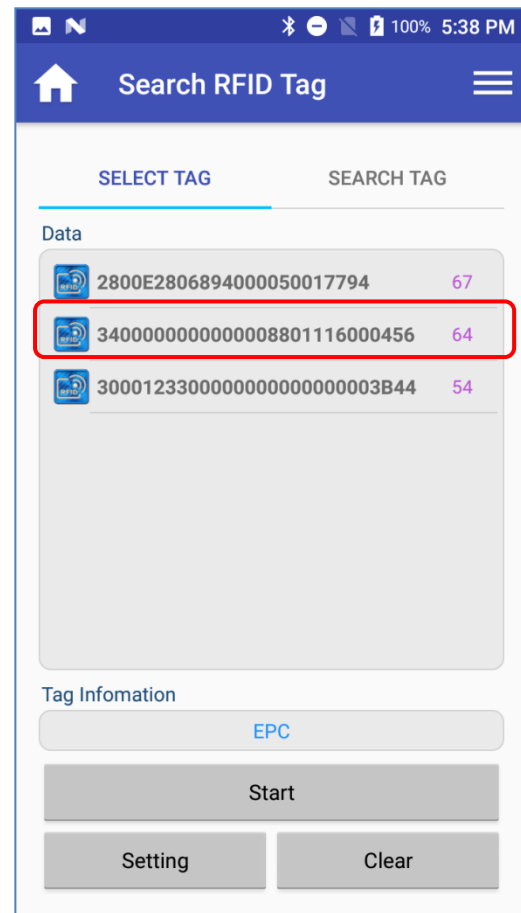
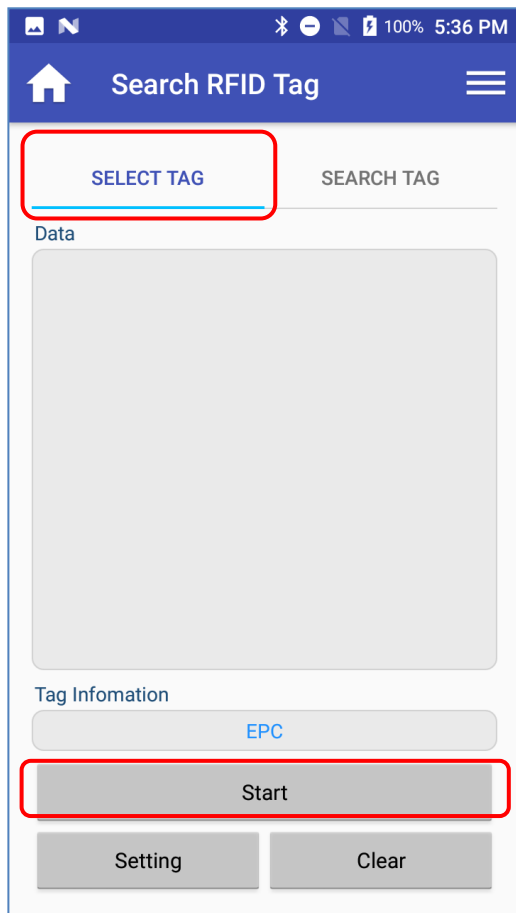


- ① **Operation Mode** : Select the Tag or search the specified Tag.
- ② **Data List** : When the Tags are read, it will be displayed here.
- ③ **Tag Information** : The Tag you selected will be displayed.
- ④ **Start** : Inventory is started . After initiation, it changes to Stop button.
- ⑤ **Setting** : Go to the screen to set RFID or Barcode Option.
- ⑥ **Clear** : All data in Data list gets removed and each count values are reset.
- ⑦ **Result** : Displays the result of the search.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.6.2. How to search RFID tag


Select Operation Mode as Select Tag.

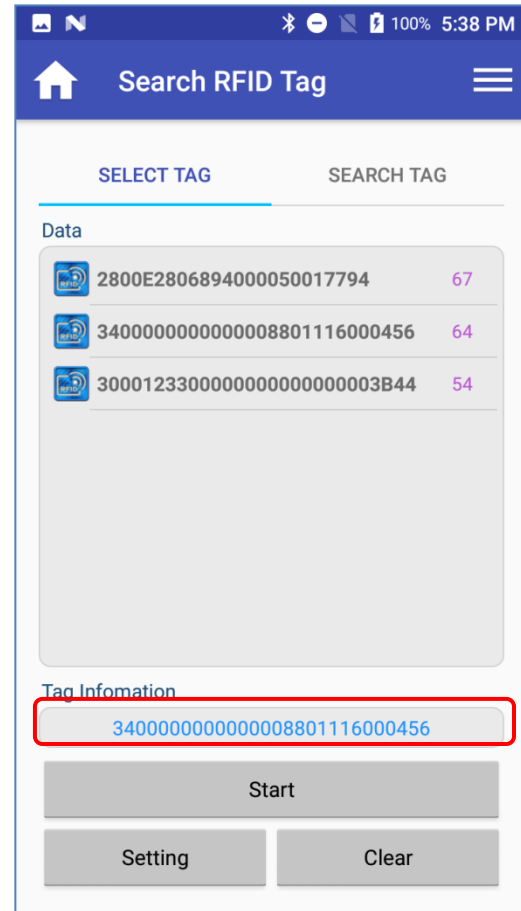
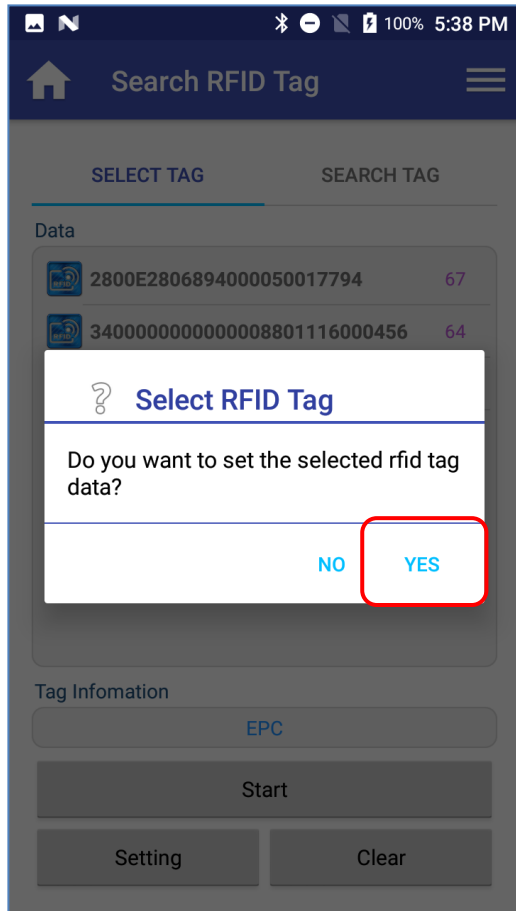


To start inventory, click the "Start" button.

If the Tag that you want to search be displayed, click the "Stop" button.


Long touch the Tag on screen.

 All That Identification		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

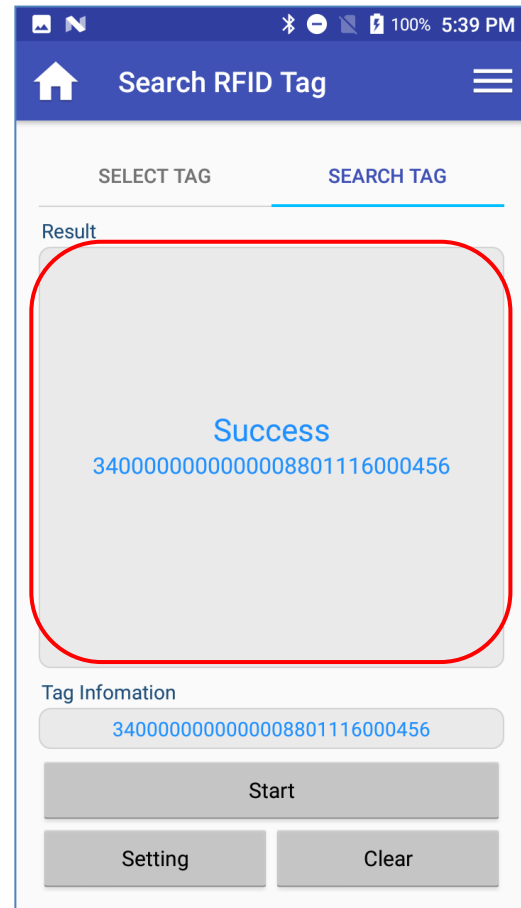
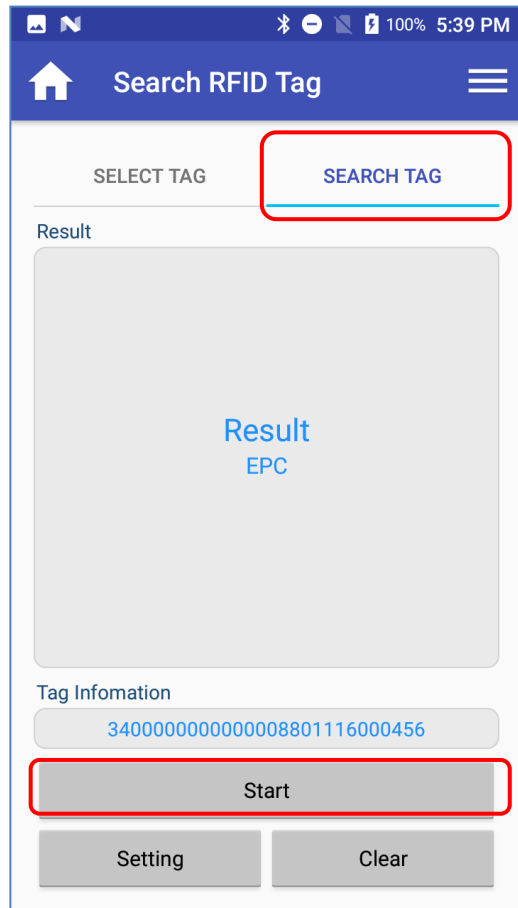


Click the "Yes" button on the "Select RFID Tag" dialog.

If you click the "Yes", Tag's data will be displayed at "Tag Information".


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

Select Operation Mode as Search Tag.



If you click "Start" button, start search specified Tag

If Tag that has epc same as "Tag Information" be found, result displayed on the screen.

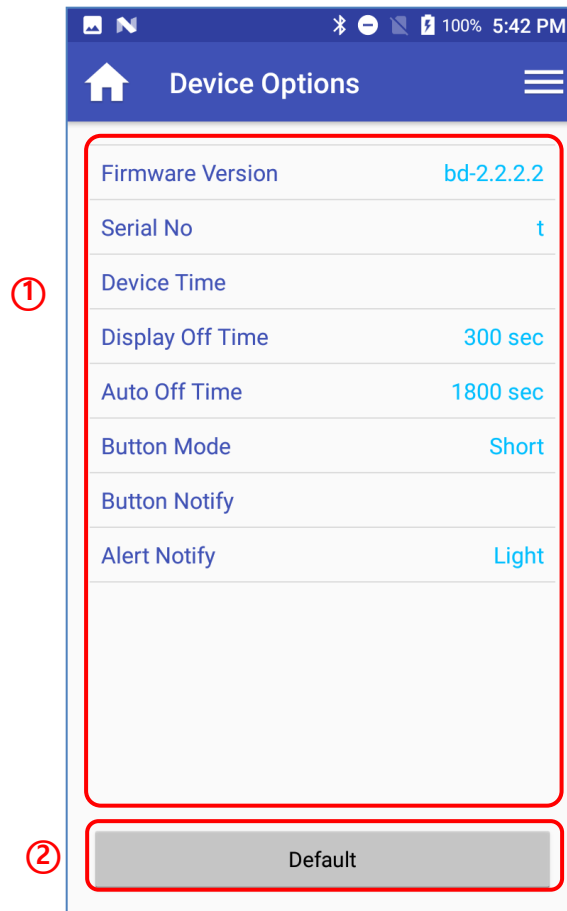
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Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.7. Device Options


Device Options Demo can set the equipment.

3.7.1. Screen Composition

Device Options Demo consists of the following items shown in the figure below.

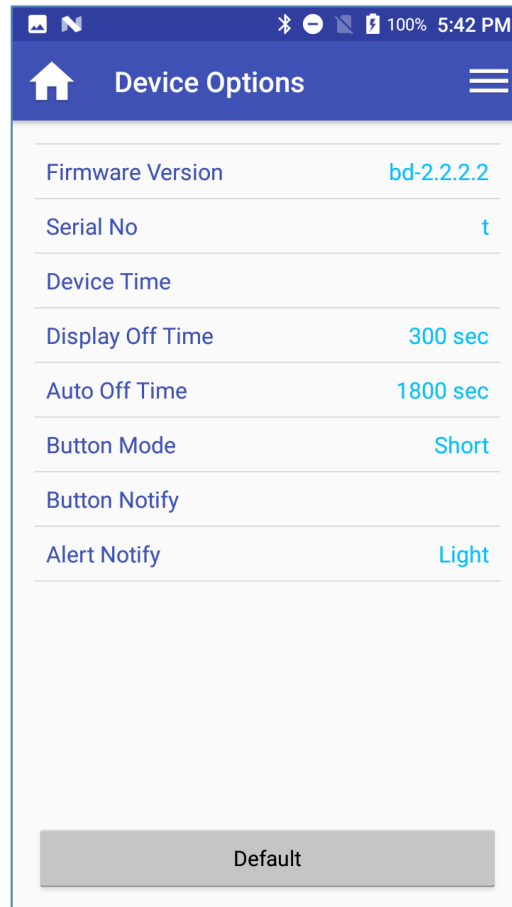


- ① **Option List** : it is the list showing the options of the equipment.
The items of the list show the names of each option and the value of setting.
You may set by touching the option.
- ② **Default** : it initializes the value of option of the equipment.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.7.2. How to change device options

The equipment consists of modules and main devices controlling the modules. Device Option provides a circumstance manipulating the setting in regard to main devices




3.7.2.1. Firmware Version

Firmware Version prints out main programs operated in main devices.

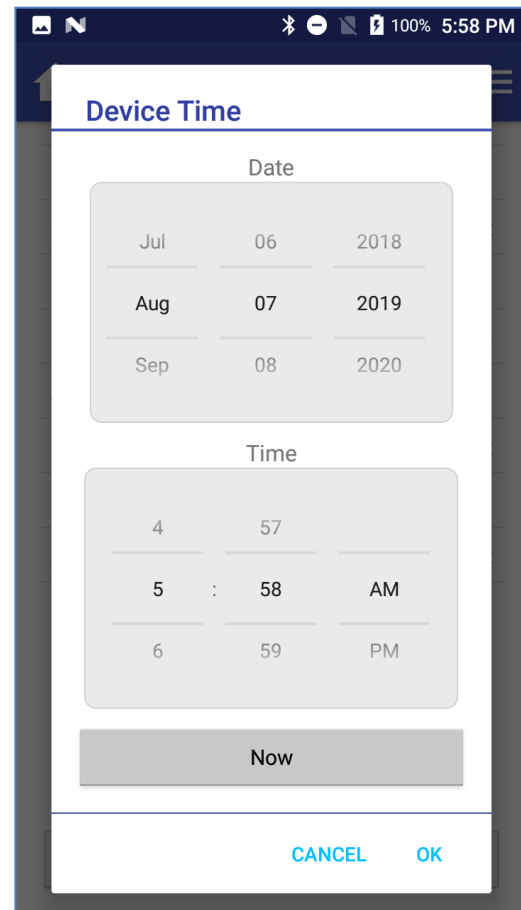
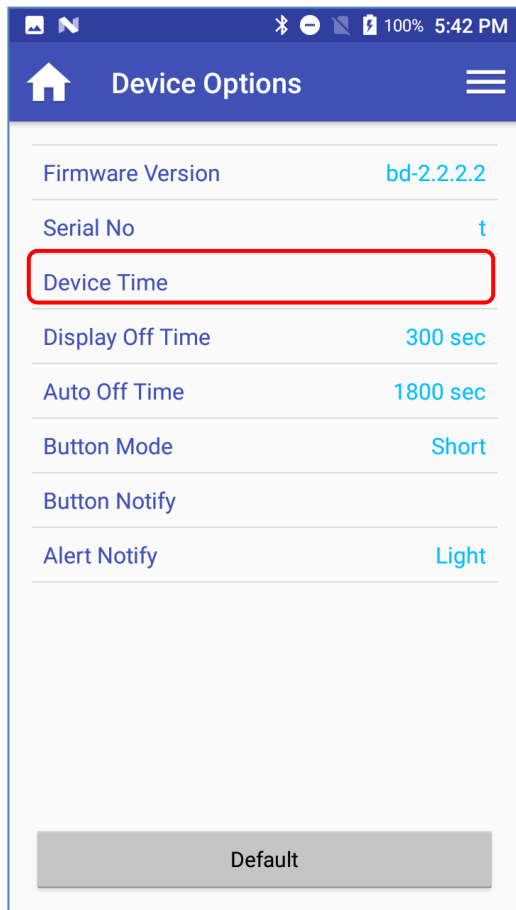
3.7.2.2. Serial No

Serial No is the distinguished number to sort out each tool printing the administration number of managing tools.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.7.2.3. Device Time

Device Time sets the time of internal watch.



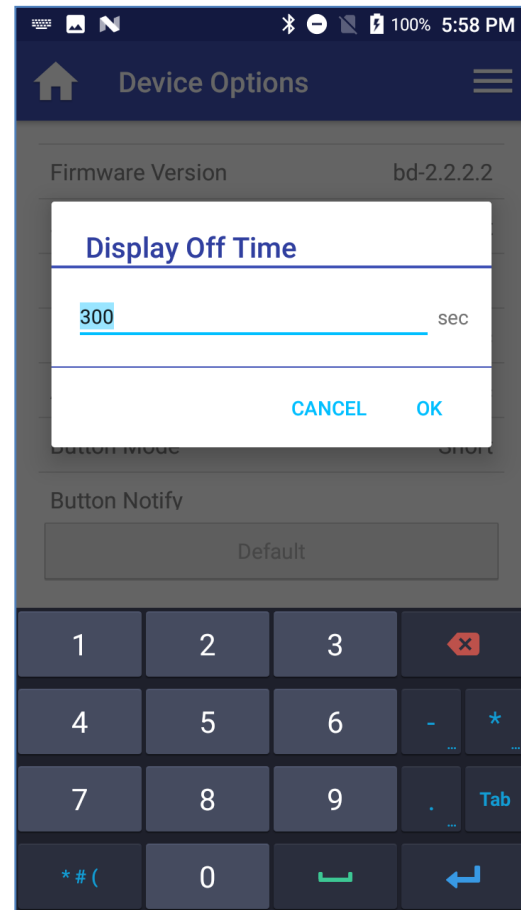
There will be a dialog box in which you may set device time by touching on the Device Time. If you set date and time on the dialog box are touch on OK button, the time of the equipment will be set up. touch Cancel button to cancel the set of time.

※ This function is not support in ATS100, ATS200 and ATD100.

		ATID Reader SE Demo Guide for Android					
All That Identification		Android Demo Guide Manual				Company	ATID Co.,Ltd
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.7.2.4. Display Off Time

Display Off Time is to set display off time to save battery in the tools on display (e.g., AT388, AT188N, AT188NP and etc.)




If Display Off Time is set 0sec, display will not automatically be off until the power of the tools is cut off.

The set unit of Display Off Time is second.

The way of the automatic going off of the tools having display is display will go off if it is not used during Display Off Time and after Display goes off, if it is not used during Auto Off Time tool will go off.

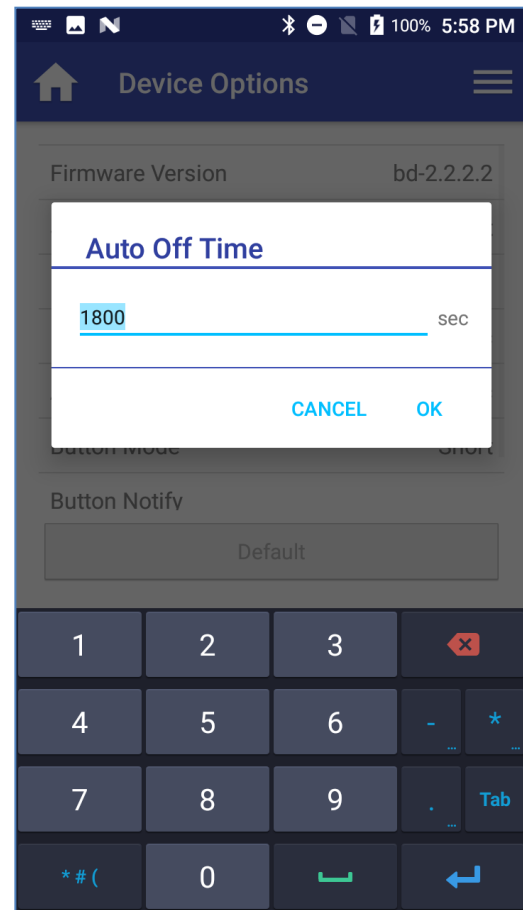
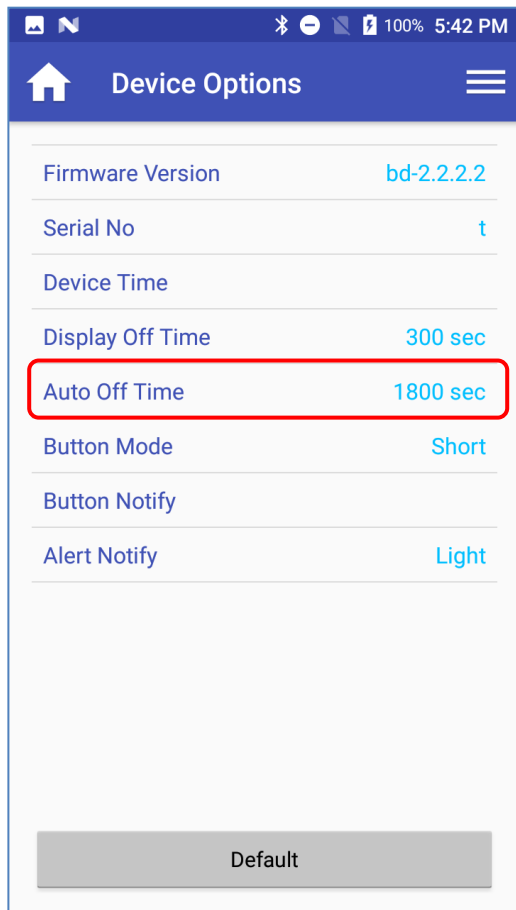
If Display Off Time is set 0, display will not go off so Auto Off Time will not have any meaning.

※ This function is not support in ATS100, ATS200 and ATD100.

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2


3.7.2.5. Auto Off Time

Auto Off Time is to set for the time the tool will automatically go off.



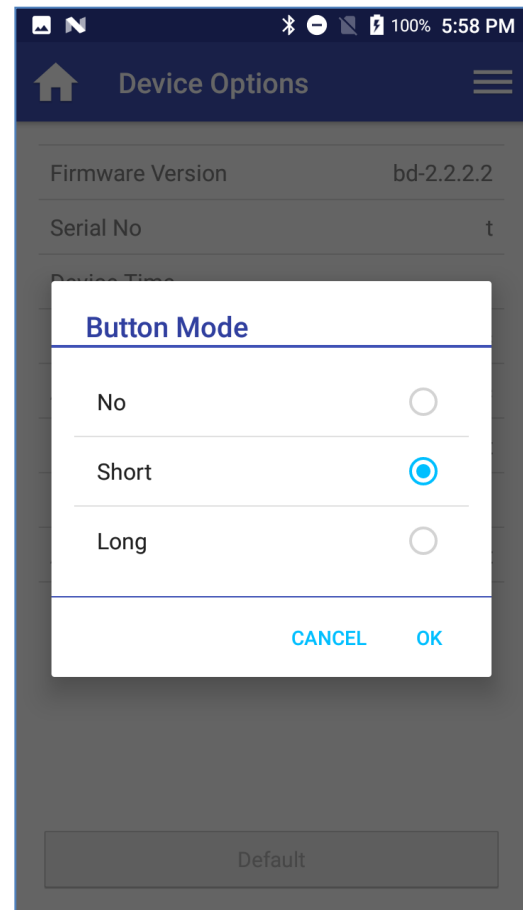
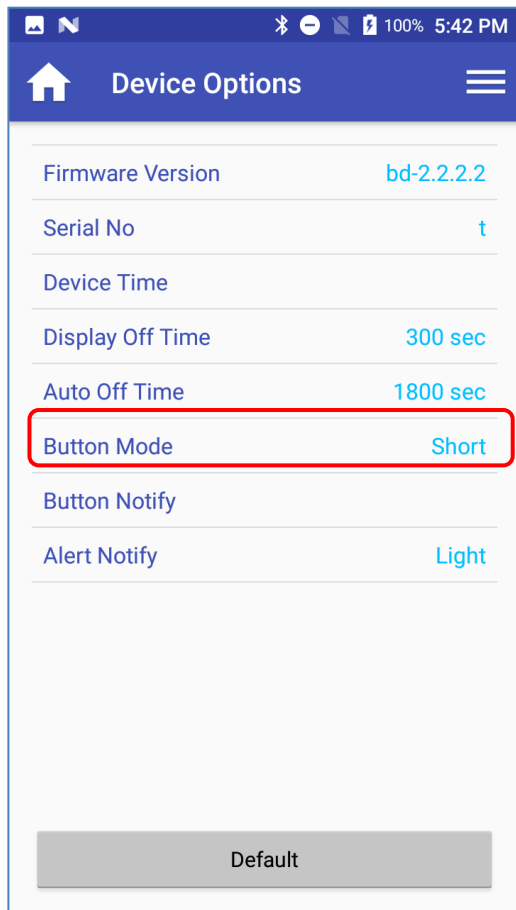
If Auto Off Time is set 0sec., the tool will not automatically go off.

The set unit of Auto Off Time is second.


		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.7.2.6. Button Mode

Button Mode is to set the start sound of device's button and the length of vibration.

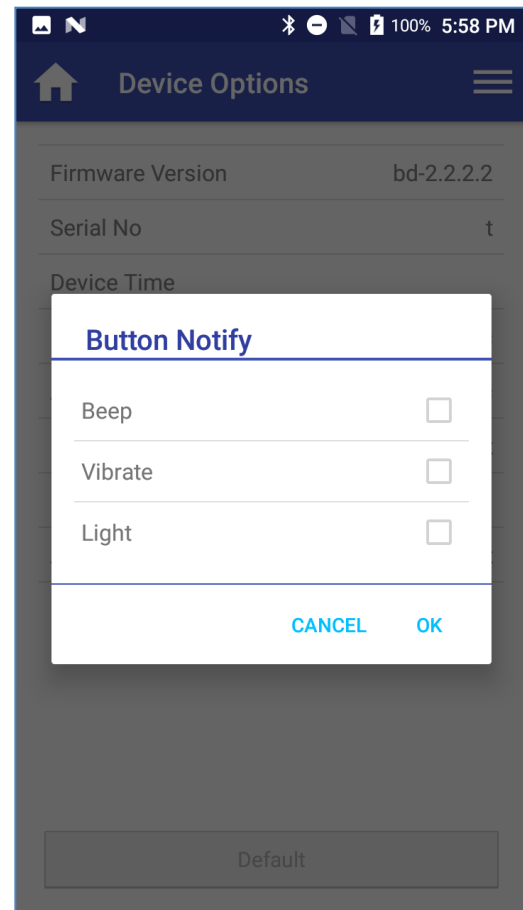
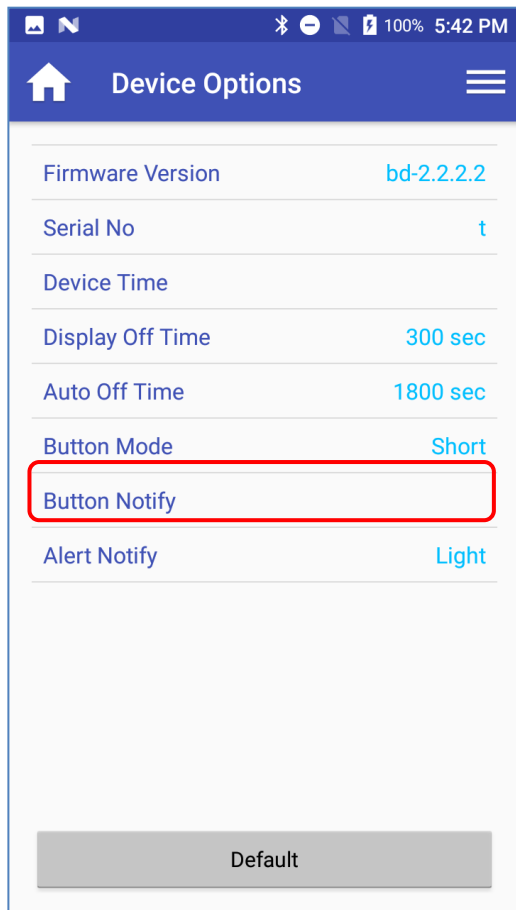


Button Mode	Description	Note
No	No use of button alert function.	
Short	Button alert sound and vibration will be brief.	
Long	Button alert sound and vibration will be long.	

		ATID Reader SE Demo Guide for Android					
Android Demo Guide Manual					Company	ATID Co.,Ltd	
Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.7.2.7. Button Notify


Button Notify is to set for how to do alert which goes on when the device's button is pressed.



Button Notify	Description	Note
Beep	A beep sound is generated when the tool button is pressed.	
Vibrate	Vibration is generated when the tool button is pressed.	
Light	LED blinks when the tool button is pressed.	

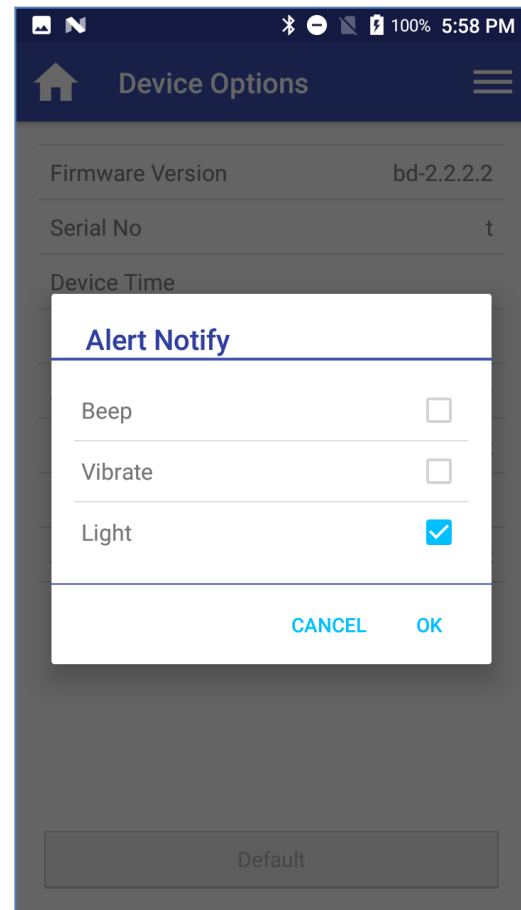
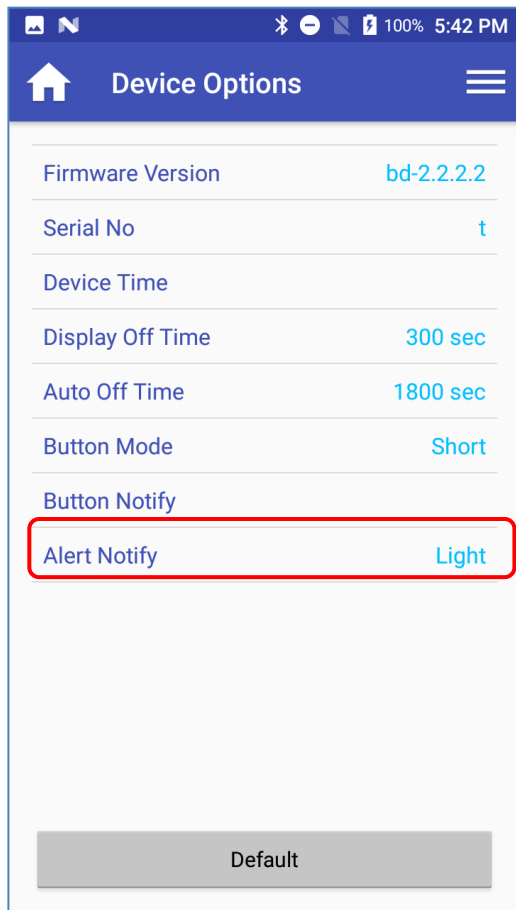
※ Light function is not support in ATS100 and ATS200.

※ Vibrate function is not support in ATD100.

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Document		Writer	ENG Team	Date	2023-10-16	Version	v1.2

3.7.2.8. Alert Notify

Alert Notify is to set for how to do alert when an event on the device occurs.



Alert Notify	Description	Note
Beep	A beep sound is generated when an event on the device occurs.	
Vibrate	Vibration is generated when an event on the device occurs.	
Light	LED blinks when an event on the device occurs.	

※ Light function is not support in ATS100 and ATS200.

※ Vibrate function is not support in ATD100.