123RFID Mobile Application for iOS



User Guide

2025/03/07

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About this Guide

This guide provides information about the 123RFID Mobile Application for iOS.

Notational Conventions

The following notational conventions make the content of this document easy to navigate.

- **Bold** text is used to highlight the following:
 - Dialog box, window, and screen names
 - Dropdown list and list box names
 - Checkbox and radio button names
 - Icons on a screen
 - Key names on a keypad
 - Button names on a screen
- Bullets (•) indicate:
 - Action items
 - List of alternatives
 - · Lists of required steps that are not necessarily sequential
- Sequential lists (for example, those that describe step-by-step procedures) appear as numbered lists.

Icon Conventions

The documentation set is designed to give the reader more visual clues. The following visual indicators are used throughout the documentation set.



NOTE: The text here indicates information that is supplemental for the user to know and that is not required to complete a task.



IMPORTANT: The text here indicates information that is important for the user to know.



CAUTION: If the precaution is not heeded, the user could receive a minor or moderate injury.



WARNING: If danger is not avoided, the user CAN be seriously injured or killed.

DANGER: If danger is not avoided, the user WILL be seriously injured or killed.

Service Information

If you have a problem with your equipment, contact Zebra Global Customer Support for your region. Contact information is available at: <u>zebra.com/support</u>.

When contacting support, please have the following information available:

- Serial number of the unit
- Model number or product name
- Software/firmware type and version number

Zebra responds to calls by email, telephone, or fax within the time limits set forth in support agreements.

If your problem cannot be solved by Zebra Customer Support, you may need to return your equipment for servicing and will be given specific directions. Zebra is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.

If you purchased your Zebra business product from a Zebra business partner, contact that business partner for support.

123RFID Mobile Application for iOS

This guide describes the enhanced version of the 123RFID Mobile Application for iOS and demonstrates the device's capabilities and tag operation features.

This application is also available as part of the App Store at: apps.apple.com/lk/app/123rfidmobile/id996761433.

Overview

This application runs on iOS mobile devices and demonstrates capability and tag operation functionality.

The application allows for navigating to all screens at any time, however, some actions are not permitted while the device is charging. These actions include any operation that involves Tag reading or writing (for example, Rapid Read, Inventory, Locate Tag, etc.).

Navigate to all screens when the inventory/locate operation is in progress. When the operation is in progress, the device displays Operation in Progress if additional operations are initiated.

Installing the 123RFID Mobile Application for iOS

Install the 123RFID Mobile Application on the mobile computer from <u>zebra.com/support</u> or from the App Store. The procedure to install the software on an iOS device depends on the iOS version.

Using the Application

You can use this application for RFID operations.

- 1. Launch the 123RFID Mobile Application for iOS on the mobile device.
- 2. From the Readers List, tap the available device to connect and view the Rapid Read screen.
- 3. Go to Settings > RFID > Advanced Reader Options > Antenna.



NOTE: The default Power Level is set to 27.0 dBm, but it is displayed as 270 dBm as the value is represented in units of tens of dBm. In Japan, the default Power Level varies based on the type of SKU.

4. Click Back and select Regulatory to set the region in which the device is operating.

Navigating 123RFID Mobile

Use the **Home** screen, menu, or bottom navigation bar to navigate. You can switch between the **Inventory**, **Locate**, or **Rapid Read** screens by tapping the appropriate icon.

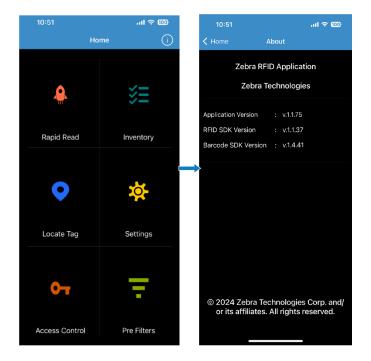
To exit the application, tap **Back** on the confirmation screen and click **OK**.

Home Screen

The Home screen in the 123RFID mobile application for iOS displays the following menu options:

- Rapid Read
- Inventory
- Locate Tag
- Settings
- Access Control
- Pre Filters
- About

Figure 1 Home Screen



Tab Bar

Select a menu item from the home page, except **Settings**, and the **Tab bar** displays at the bottom of the screen with the following options:

- Rapid Read
- Inventory

- Locate Tag
- Access
- Barcode

Figure 2 Tab Bar



Readers List

The Readers List displays connected and available readers. Readers display in the **Readers List** after being paired with the **Bluetooth** settings on the iOS device.

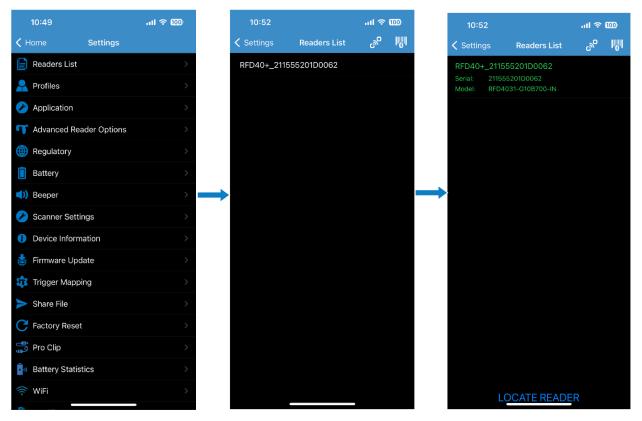


Figure 3 Readers List; Available Readers; Connected Readers

- Available Readers Lists the already paired devices that the user can choose to connect from.
 - Available options include:
 - Connect
 - View reader details for an available reader
- **Connected Readers** Lists the readers that are already connected and ready for use. The **Disconnect** option is available to disconnect any connected reader.



NOTE: You can only connect to one device at a time. The model name and description are displayed under the reader name after connecting.

Pairing a Device

Pairing by Scan provides a faster way to connect to the MFI scanner. This solution pairs with an MFI scanner inside the sample application. Using the camera view in the iPhone's built-in camera, scan the device barcode image to get the serial number and try to connect with that device.

Unpairing a Device

Before proceeding with the following steps, unpair the RFD8500/RFD40 + device (the device you want to pair) from the **Bluetooth** settings.

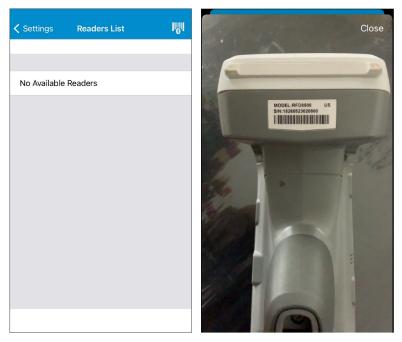
1:20 7 1:19 -7 ◀ Search __ ≑ II. Settings Bluetooth K Back RFD850015265523020800 Forget This Device Bluetooth Now discoverable as "iPhonex". MY DEVICES Dhanushka's Apple W... Not Connected (1) JBL T450BT Not Connected 🚺 Not Connected 🚺 JBL Xtreme RFD8500152655230... Not Connected (i) OTHER DEVICES 🔆 DS2278 17251523400346 DS8178 16311010503754 Forget Device Cancel

Figure 4 Bluetooth

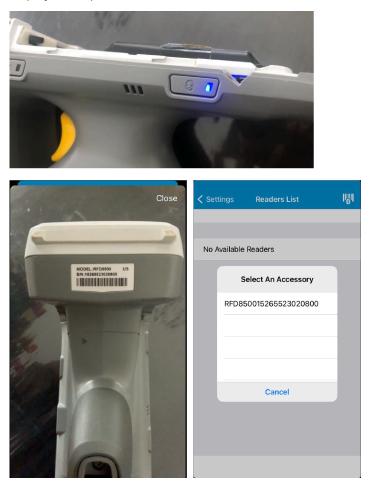
Pairing the RFD8500

1. From the Home screen, go to **Settings** > **Readers List**.

2. Tap in the navigation bar, and the camera view displays.



3. In the camera view mode, scan the device's barcode. Before scanning, ensure that the RFD8500 Bluetooth indicator LED blinks, indicating the device is discoverable. Otherwise, the device will not display in the picker list.

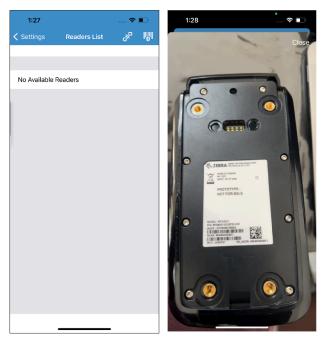


4. Select the device you want to pair, and press the RFD8500 trigger to pair when the Bluetooth LED starts flashing fast. You will hear a beep when the device is successfully paired.

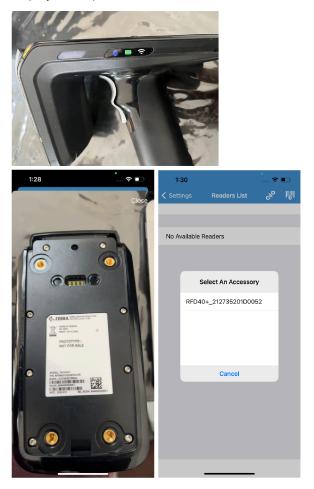
		1:44 🗸		
Settings Readers List	<mark> </mark>	Settings	Readers List	181
	_			
No Available Readers		RFD8500152	65523020800	
Select An Accessory				
RFD8500152655230208 🔆				
· · · · · · · · · · · · · · · · · · ·				
Cancel				

Pairing the RFD40+

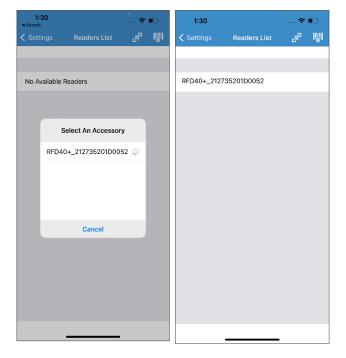
- **1.** From the Home screen, go to **Settings** > **Readers List**.
- **2.** Tap in the navigation bar, and the camera view displays.



3. In the camera view mode, scan the device's barcode. Before scanning, ensure that the RFD40+ Bluetooth indicator LED blinks, indicating the device is discoverable. Otherwise, the device will not display in the picker list.



4. Select the device you want to pair and press the RFD40+ trigger to pair when the Bluetooth LED starts flashing fast. You will hear a beep when the device is successfully paired.



Setting Up the NFC-Based Tap to Pair

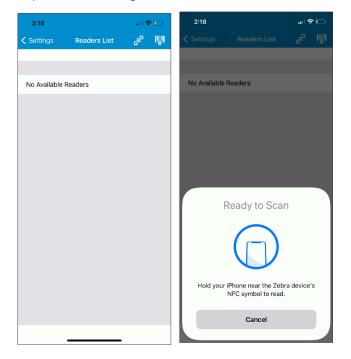
Pairing by Tap provides a faster way to connect to the MFI scanner. This solution pairs with an MFI scanner inside the sample application. Using the NFC in the iPhone's inbuilt NFC reader, tap the device's NFC tag to get the serial number from the NDEF records and try to connect with that device.

Before starting the NFC-based pairing, unpair the device that you want to pair from the Bluetooth settings. (For example, RFD40P_XXX...X)

Figure 5 Unpairing Device

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Settings Bluetooth		< Back	RFD40P_212735201D0095
Bluetooth		Forget 1	This Device
Now discoverable as "Zebra's iPhone 12".			
MY DEVICES			
RFD40P_212735201D0 Not Conr	nected i		
OTHER DEVICES $\sum_{i=1}^{j}$ To pair an Apple Watch with your iPhone, go to Watch app.) the Apple		
			Forget Device
			Cancel

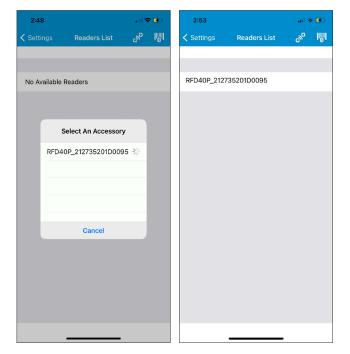
- **1.** From the Home screen, go to **Settings** > **Readers List**.
- **2.** Tap \overrightarrow{O} in the navigation bar, and the NFC reader view displays.



3. Hold your iPhone near the Zebra device's NFC symbol to read in the NFC Ready to Scan view mode. Ensure that the RFD40+ Bluetooth indicator LED blinks, indicating the device is discoverable. Otherwise, the device will not display in the picker list.



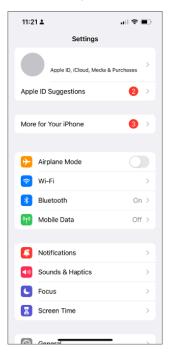
4. Select the device you want to pair. You will hear a beep when the device is successfully paired.



Manually Pairing a Device

If you do not use the Scan and Pair, Tap, and Pair methods to pair the reader, you can pair it manually.

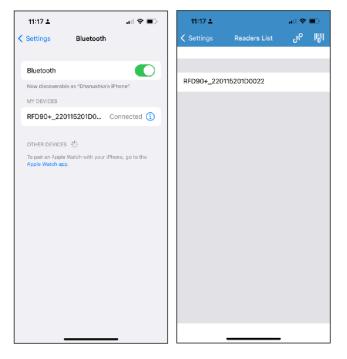
1. Go to **Settings** on the iOS device and select **Bluetooth**.



2. Use the toggle switch to enable Bluetooth.

11:15 🛓		all 🗢 🔳
Settings	Bluetooth	
Bluetooth		
Now discoveral	ble as "Dhanushka's iP	hone".
DEVICES $\frac{2^{L_2}}{2^{L_2}}$		
RFD90+_22	0115201D0022	
To pair an Appl Apple Watch ap	e Watch with your iPho op.	one, go to the

3. Select the Readers List.



RFID Operations

Access RFID operations for the following:

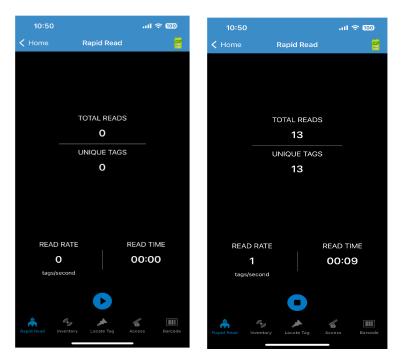
- **Rapid Read** Displays a view of the inventory operation on the reader, including total reads, unique tag count, tag read rate, and read time.
- Inventory Displays tag details when tag reading begins.
- Locate Tag Locates a single tag or multiple tags. Accessed from the Inventory screen.
- Tag Write Allows you to write data to specified tags. Accessed from the Inventory screen.
- Pre-Filters Allows you to set filters for tag data. Accessed from the Inventory screen.
- **RFID Settings** Allows you to configure specific reader and antenna settings. Accessed from the **Rapid Read**, **Inventory** screens, and **Settings**.

Rapid Read

The Rapid Read screen displays the following data:

- Total Reads
- Unique Tags
- Read Time (mm:ss)
- Read Rate (tags/sec)

Figure 6 Rapid Read

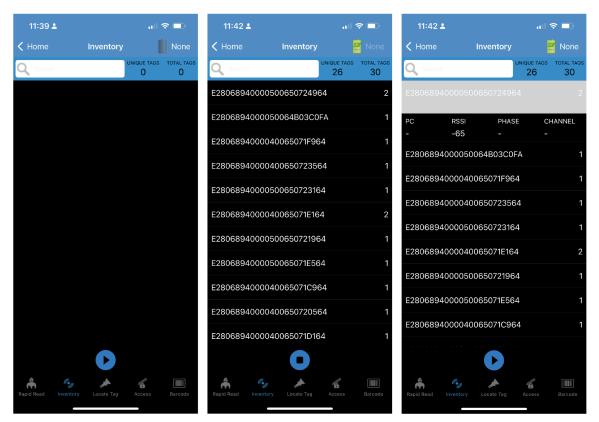


The Rapid Read and Inventory screens present two different views of the inventory operation on the reader. The Start or Stop functionality can be used interchangeably on both screens. For example, when the operation starts on the Rapid Read screen and you navigate to the Inventory screen, the button on the Inventory screen is Stop. The same is true when the operation starts on the Inventory screen. During the rapid read process, you can navigate to the Inventory screen to view tag details and counts for each tag. The statistics displayed are maintained on the Rapid Read and Inventory screens regardless of the screen used to start the process.

Inventory

When the tags begin reading, the tag details populate the Inventory screen. Tag reading is started and stopped on this screen and the Rapid Read screen. When the process starts, tag information displays on the screen. The scan trigger on the device can also start and stop the inventory operation. Press the trigger to start, continue to hold, and release to stop.







NOTE: When the tag does not have printable ASCII data when in ASCII mode, a yellow highlighted background displays on the Inventory screen.

123RFID Mobile Application for iOS

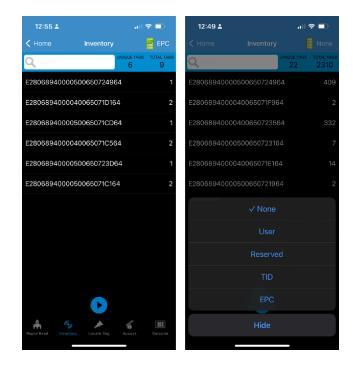
10:41	.ıl 🗢 🚥
K Home Set	tings
Readers List	
Profiles	
Application	
🍸 Advanced Reader	Options >
Regulatory	
Battery	
)) Beeper	
Scanner Settings	
Device Information	
Firmware Update	
Trigger Mapping	
► Share File	
Factory Reset	
🐉 Pro Clip	
• Battery Statistics	
🔶 WiFi	>

Memory Bank

Tap Memory Bank to select one option from the action sheet menu:

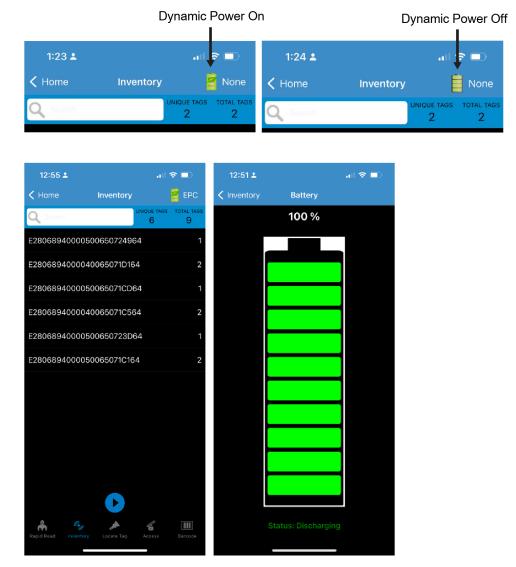
- None Defaults to EPC.
- User Allows reading user memory bank data when the tag is inventoried.
- Reserved Allows reading reserved memory bank data when the tag is inventoried.
- TID Allows reading TID memory bank data when the tag is inventoried.
- **EPC** Allows reading EPC memory bank data when the tag is inventoried. When the next inventory operation starts, the details from the selected memory bank display. This menu is inactive if there is an ongoing operation on the connected reader.
- Default Display None.

123RFID Mobile Application for iOS



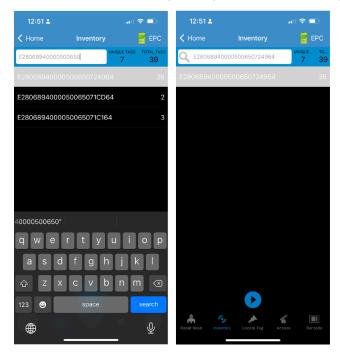
Power Management

The icon indicates if Dynamic Power is on. Tap the Power Management icon to open the Battery Status screen. See Power Management for an option to enable Dynamic Power Optimization (DPO) in the reader.



Search a Tag

Tap **Search** and enter a tag ID. Tags that match the entry display in the content area.

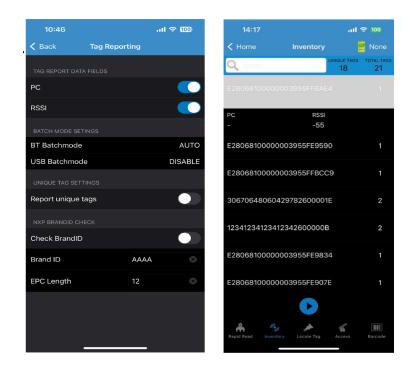


Content Area (Select a Tag)

Expanded tag details can only be displayed when the inventory operation is stopped, and memory bank data is shown only when the inventory is complete.

The tags displayed in this section are based on the option selected from **Home** > **Settings** > **Advanced Reader Options** > **Tag Reporting**. Tap the tag ID to view more details about the tag, and tap it again to hide the details.

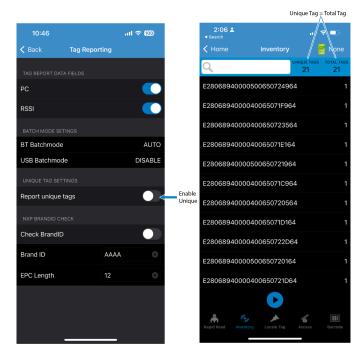
123RFID Mobile Application for iOS



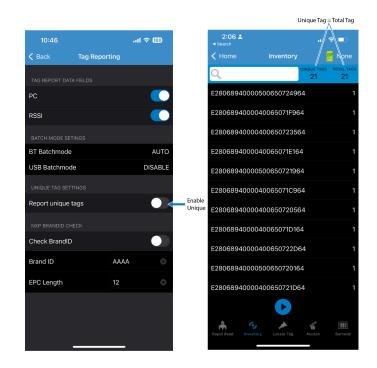
Unique Tag Reporting

When Report Unique Tags is enabled on the Tag Reporting screen, the reader reports unique tags based on the options below.

- The tag count cannot be greater than one, as the **Unique Tags** are only reported one time.
- The list displays **Unique Tags** and **Total Tags** read when the Matching option is not selected. The tag count cannot be greater than one, as the **Unique Tags** are only reported one time.



123RFID Mobile Application for iOS

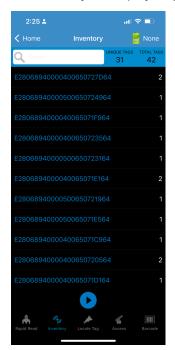


NXP BrandID Check

When the Check BrandID is enabled on the Tag Reporting screen, the reader reports only tags based on the brand options below.

- Brand ID
- EPC Length

After enabling the **Check BrandID** settings, you can start the inventory. If the tag has a matching brand ID, the inventory list displays tag data in blue.



Locate Tag

Use Locate Tag to locate a single tag or multiple tags (Multi Tag). From the Inventory screen, tap and select **Locate Tag**.

Locating a Single Tag

To locate a single tag:

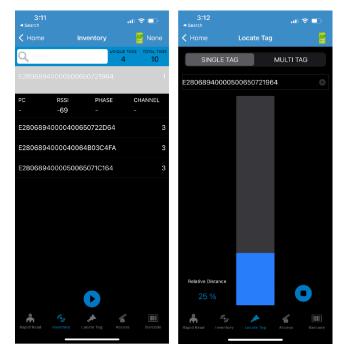
- 1. Tap Locate Tag from the Home or Menu screen.
- 2. Enter the Tag ID in the text area or select a tag from the Inventory screen to pre-populate the Tag ID to search.
- 3. Tap Start to start the locate tag operation.
- 4. Tap Stop to stop the locate tag operation.



NOTE: The device's scan trigger can also start and stop the locate tag operation. Press the trigger to start, continue to hold, and release to stop.

The **Locate Tag** screen displays a color bar graph showing the proximity % (relative distance) of the tag. The % gives the relative distance, for example, from 0% to 100% where the tag is very far or very close respectively.

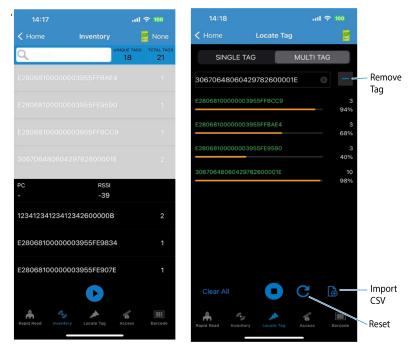
Progressing to another screen does not halt the operation until **Stop** is selected. However, attempting to make changes or perform another operation while the locate tag operation is in process results in an error.



Locating Multiple Tags

Locate multiple tags by importing a CSV file or selecting multiple tags from the Inventory screen.

Selecting multiple tags from the Inventory screen

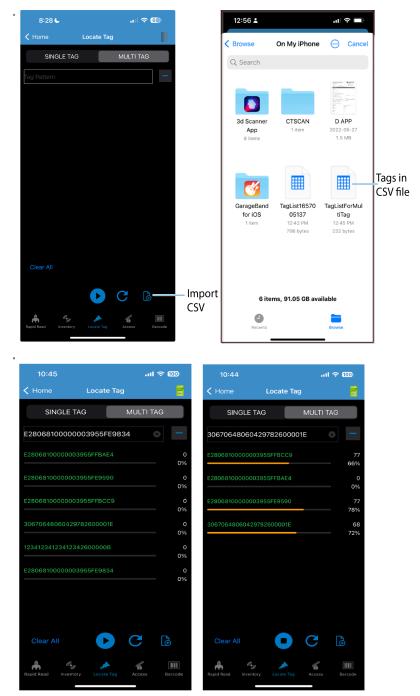


Selecting multiple tags from a CSV file

1. List the tags you want to perform the multiple tags in a CSV file. Copy this file into the iOS device.

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Home Insert Draw >> 🖓 Tell me							
С	□ × A × Ξ lipboard Font Alignm	• % ent Numbe	er 🔀 Conditional				
×	Possible Data Loss Some for	eatures might	be lost if you				
A	$26 \stackrel{\bullet}{\checkmark} \times \checkmark f_x$						
	A	В	С				
1	E28068940000500650724964						
2	E2806894000050064B03C0FA						
3	E28068940000400650723564						
4	E28068940000500650723164						
5	E2806894000040065071E164						
6	E28068940000500650721964						
7	E2806894000040065071C964						
8	E2806894000040065071D164						
9	E2806894000050065071D564						
10							
11							
12							
12							

2. Go to the Inventory and navigate to the Multi-Tag page. Tap the Import CSV and select the CSV file.



Setting Pre Filters

To set a pre-filter, set the following properties.

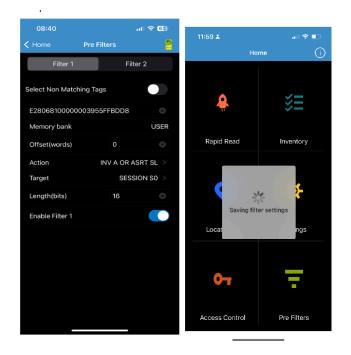
- Memory Bank EPC, TID, and USER.
- Offset (words) Offset in the memory bank is specified in words.
- Select Non-Matching Tags Inventory displays tags which are not matching with tag pattern entered.

- Action options are as follows:
 - INV A NOT INV B or ASRT_SL_NOT_DSRT_SL
 - INV A or ASRT SL
 - NOT INV B or NOT DSRT SL
 - INV A2BB2A NOT INV A or NEG SL NOT ASRT SL
 - INV B NOT INV A or DSRT SL NOT ASRT SL
 - INV B or DSRT SL
 - NOT INV A or NOT ASRT SL
 - NOT INV A2BB2A or NOT NEG SL
- Target SESSION S0, SESSION S1, SESSION S2, SESSION S3 and SL FLAG.



NOTE: Up to two pre-filters can be enabled.

10:42		II 奈 100	08:40			I 🗢 🚯
K Home	re Filters	8	K Home	Pre Fil	ters	8
Filter 1	Filter	2	Filter	1	Filter	
Select Non Matching	g Tags		Select Non Ma	tching Tage	3	
Tag Pattern			E280681000	00003955	FFBDD8	
Memory bank		USER	Memory bank			USER
Offset(words)	0	0	Offset(words))		
Action	INV A OR ASP	RT SL $ ightarrow$	Action	11	NV A OR AS	RT SL >
Target	SESSIC	ON SO >	Target		SESSIC	ON SO >
Length(bits)	16	8	Length(bits)		16	
Enable Filter 1			Enable Filter 1			
			q w e	r t	y u i	o p
			a s d	f g	h j	k I
			☆ z x	c v	b n	m 🗵
			123 😅	spac	e	done
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Tag Access Operation

Select Access Control on the Home screen to enter the Access Control page.

Read \ Write

The Tag Pattern area is automatically filled in when a tag is selected in the Inventory screen. The Read or Write access operation is simplified with offset and length fields are hidden.

Memory Bank options now have extended menu options to choose directly the interested area of memory bank. This avoids typing of offset and length.

Read \ Write options are as follows:

- Tag ID and Password values are in hex. The tag ID is edited.
- Memory Bank EPC, TID, USER, PC, and CRC, Access Password, Kill Password.
- Offset and Length values are in 16-bit words. This is only available after selecting the Advanced Options. To toggle visibility, select Advanced Options again.
- The Access Control screen maintains the edited tag ID.



Lock

Lock privilege options are as follows:

- Read and Write
- Permanent Lock
- Permanent Unlock
- Unlock



Kill

This option permanently renders the tag unusable. A Kill Password must be provided.

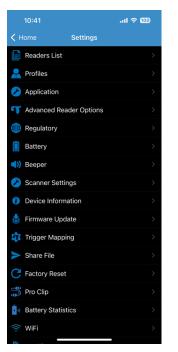


Settings

The Settings include the following options:

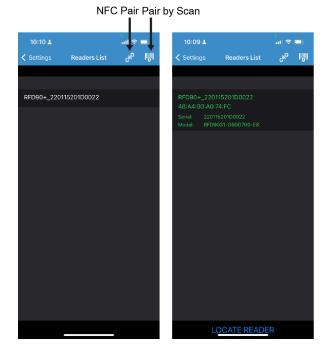
- Reader List To display the reader list
- Application To display application settings
- Profiles To display the list of profiles
- Advanced Reader Options To set advanced reader options (Antenna, Singulation Control, Start/Stop Trigger, Tag Reporting, Save Configuration, Power Management)
- Regulatory To set regulatory options
- Battery To display the battery power level
- Beeper To set beeper options
- Scanner Settings To access scan settings
- Device Information View information such as friendly name, serial number, and RFID/scan settings.
- Firmware Update Update the firmware on the reader
- Trigger Mapping Change the upper and lower trigger mapping and designate the Upper Trigger for RFID decode and the Lower Trigger for Host Scan or the Upper Trigger for Host Scan and the Lower Trigger for RFID decode
- Share File Share a file with a paired device
- Factory Reset Reset file settings on the reader to factory defaults.
- Battery Statistics Share a file with a paired device

- WIFI To display WIFI settings
- Certificates To display certificate settings
- Endpoint Configuration To display endpoint configuration settings

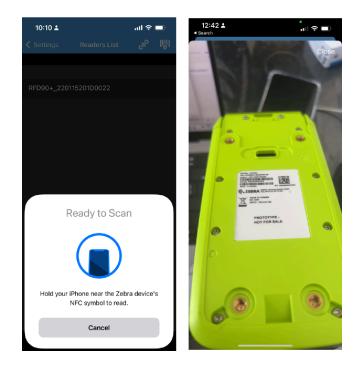


Readers List

The Readers list screen displays the available devices to connect.



123RFID Mobile Application for iOS



Profiles

To display the list of profiles, go to **Settings** > **Profiles**.

- The currently selected profile is highlighted in Blue.
- Tap the profile item to expand the profile and view applicable configurations.
- Profiles can be selected or disabled by using the slider switch to the right of the profile name.



NOTE: If Power Level, Link Profile, Session, or Dynamic Power are modified from each respective screen, then the currently selected profile changes to a User-Defined profile, and profile item values are modified with the same values.

2:10 ±	a ≑ ∎)	2:09 🛎		all 🗢 💷	2:09 🛓	🗢 💷
Settings Profiles		< Settings	Profiles		< Settings	Profiles
		Fastest Read			Fastest Read	
Cycle Count		Read as many tag		sible	Cycle Count	
Dense Readers		Power Level (tense of dbm)		300	Read as many unic	
Optimal Battery		Link Profile		M2 240K 🔻	Power Level (tense of dbm)	
Balanced Performance		Session Dynamic Power		50 ÷	Link Profile	
		Dynamic Power			Session	52 👻
User Defined		Cycle Count			Dynamic Power	
Reader Defined		Dense Readers			Dense Readers	
		Optimal Battery			Optimal Battery	
		Balanced Perfor	mance		Balanced Perforn	nance
		User Defined			User Defined	
		Reader Defined			Reader Defined	
	_					

123RFID Mobile Application for iOS

2:09 🛋	al 🗢 🛋	2:09 🛎		-	2:09 🛓		.ı ≎ I	Ð
Settings Profile	s	Settings	Profiles		Settings	Profiles		
Fastest Read		Fastest Read			Fastest Read			
Cycle Count		Cycle Count			Cycle Count			
Dense Readers		Dense Readers			Dense Readers			
Use when multiple readers in	close proximity	Optimal Battery			Optimal Battery			
Power Level (tense of dbm)	300	Gives best battery			Balanced Perfor	mance		
Link Profile	M4 320K 👻	Power Level (tense of dbm)			Maintains balance		ormance and	
Session	S1 👻	Link Profile		*	battery life			
Dynamic Power		Session		-	Power Level (tense of dbm)			
Optimal Battery		Dynamic Power			Link Profile			
Balanced Performance		Balanced Perform	mance		Session Dynamic Power		S1	
User Defined		User Defined			User Defined			
Reader Defined		Reader Defined			Reader Defined			
		_					_	
2:09 🛓	al 🗢 💷	2:10 🛓						
Settings Profile	s	< Settings	Profiles					
Fastest Read		Fastest Read						
Cycle Count		Cycle Count						

Dense Readers

Optimal Battery

User Defined Reader Defined

ower Level ense of dbm)

Ovnamic Power

Link Profile

 $\overline{}$

300 M2 240K Balanced Performance

Advanced Reader Options

Dense Readers

Optimal Battery

Power Level tense of dbm)

Dynamic Power

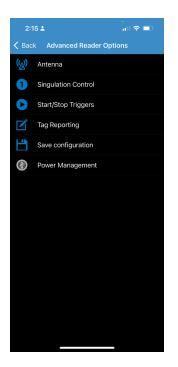
Reader Defined

Session

Balanced Performance

The Advanced Reader Options are as follows:

- Antenna
- Singulation Control
- Start/Stop Triggers
- Tag Reporting
- Save Configuration
- Power Management



Antenna

The Antenna displays the following functions:

- **Power Level (dBm)** Displays the current selection and a text box for available power levels (as reported by the device). The default setting is 27.0 dBm (shown as 270; the value displayed is in units of tens of dBm). Japan units are set to a different default power level depending on the SKU type. The minimum power level when DPO is enabled is 3.1 dBm. When DPO is disabled, the minimum power level is 0 dBm.
- Link Profile Displays the current selection and includes a drop-down list of available link profiles (reported by the device). Link Profile display format is as follows: Return link bit data rate in bits per second (for example 60000 -> 60 Kbs); Miller Value (for example MV_4 -> Miller 4); thus profile name M4 240K (240K becomes BLF) modulation type (PR ASK is the only one supported).
- PIE value has no units and is either 1500 or 2000 minimum.
- Tari applicable Tari value in thousands of microseconds (for example, 6250 -> 6.25 microseconds).



NOTE: By default, the fastest read profile is selected, and the reader is configured for the maximum power level allowed based on that profile. However, the dBm can be limited due to the regulatory requirements of the specified region in which the sled is being used.





NOTE: The **Power Level** and **Link Profile** are blank when there is no connection to the reader.

Singulation Control

To view or configure the Singulation Control settings for each antenna:

- Session The drop-down list includes the available session options (S0, S1, S2, S3).
- **Tag Population** A numeric value of the estimated number of tags in the Field of View (FOV). Values shown are 30, 100, 200, 300, 400, 500, 600.
- Inventory State State A, State B, AB Flip.
- SL Flag ALL, DEASSERTED, ASSERTED.

123RFID Mobile Application for iOS

4:48 🛓	all 🗢 💷	4:48 🛓		ail 🗢 🗈
K Back Singula	tion Control	K Back S	Singulation Control	
Session	SO	Session		S0
Tag Population	30	Tag Population		30
Inventory State	AB_FLIP	Inventory State		AB_FLIP
SL Flag	ALL			
			STATE A STATE B AB_FLIP	
		SL Flag		ALL

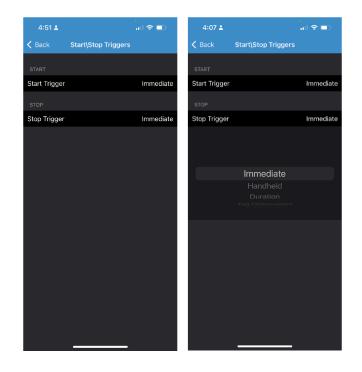
Start/Stop Trigger

The Start Trigger Periodic displays the Period input box (in milliseconds). The Stop Trigger Duration, Tag Observation, and N attempts display numeric value input boxes.

All time entries are in milliseconds. All the required details for saving triggers to the reader must be entered or the application does not save the trigger settings to the reader. Required input for Start/Stop Trigger settings are as follows:

- Start Trigger
 - Immediate (Default)
 - Handheld Select either the Trigger Pressed or Trigger Released check box.
 - Periodic Enter the period of time in milliseconds.
- Stop Trigger
 - Immediate (Default)
 - **Handheld** Select either the Trigger Pressed or Trigger Released check box along with Timeout in milliseconds.
 - **Duration** Enter the duration in milliseconds.
 - **Tag Observation** Enter the tag count along with timeout in milliseconds.
 - **N Attempts** Enter the number of attempts along with timeout in milliseconds.

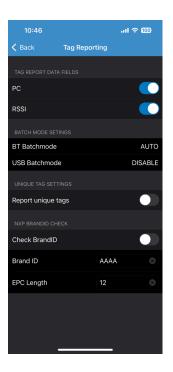
123RFID Mobile Application for iOS



Tag Reporting

The Tag Reporting setting options include:

- **Report Unique Tags** When this option is enabled, the reader reports only unique tag reads. The Unique Tag reporting feature can be enabled when using Tag List Match mode.
- Check BrandID Check box to enable the Brand ID option.
- **Brand ID** Perform an NXP BrandID check (supported only on NXP U-Code 8 and above tags that support this functionality). The BrandID check can be initiated by enabling It. The reader performs an inventory operation with additional verification on whether or not the tag inventoried matches the BrandID and reports.
- **EPC Length** The EPC length provided will consider the length of EPC data to be matched for Brand ID tags from offset 0.
- PC Select to allow reporting the PC as part of the Tag Data.
- **RSSI** Selection indicates whether or not the Received Signal Strength Indication (RSSI) is reported as part of the Tag Data.
- Phase Select to indicate whether or not the Phase is reported as part of the Tag Data.



Save Configuration

The Save Configuration is used to save the settings and display the current settings on the device.

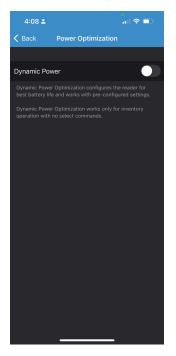
The settings are saved on the device until a reset to factory defaults is performed on the unit (see Settings on page 36). The Tag Pattern form field is automatically populated with tag data when a tag is selected from the Inventory screen.

11:06	.ıl 중 100
K Back Save Configuration	
ANTENNA	
Power level	270.0
Link profile	M4 256K
SINGULATION	
Session	S1
Tag population	30
Inventory state	STATE A
SL flag	ALL
TAG REPORT	
PC	Off
RSSI	On
Phase	Off
Channel Index	Off
Tag Seen Count	On
Report Unique tags	Off
SAVE	

Power Management

This screen provides an option to enable Dynamic Power Optimization (DPO) in the reader. Enabling DPO enhances battery life during inventory operations.

If Dynamic Power is On, a green battery icon appears in the title bar of the application. Tapping on this opens the Battery Status screen.



Regulatory

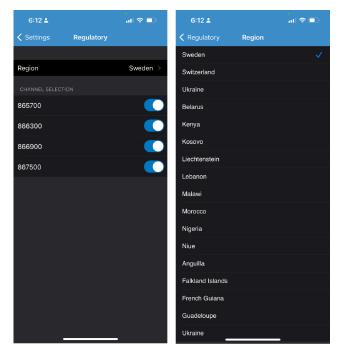
This setting provides the option to set the regulatory options.

1. From the bottom navigation bar, tap **Settings** > **Regulatory**.



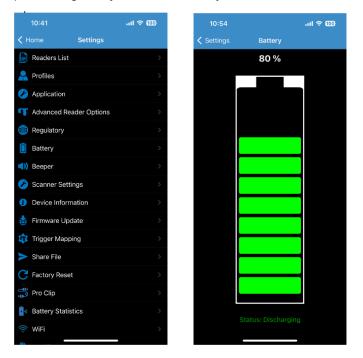
WARNING: Select only the country in which you are using the reader.

2. Select the region from the drop-down list.



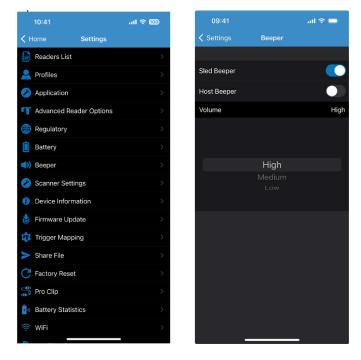
Battery Status

An active RFID reader can send an asynchronous notification regarding the battery status. The SDK informs the application about the received asynchronous battery status even if the application has subscribed for events of this type. The SDK also provides the ability to cause a particular active RFID reader to send information about the current battery status immediately. The following images display both requesting and processing of asynchronous battery status-related notifications.



Beeper Settings

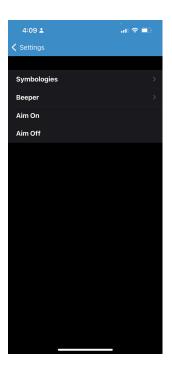
The SDK enables the configuration of the beeper for an active RFID reader. The beeper can be set to one of the predefined volumes: **Low**, **Medium**, or **High**, or it can be disabled.



Scanner Settings

The Scan Settings options are as follows:

- **Beeper** Allow the user to change the beeper volume. Provides the option to change the scanner beeper volume to high, medium, or low.
- Symbologies Allow users to select/enable specific barcode types. Supported symbologies include UPC-A, UPC-E, UPC-E1, EAN-8/JAN8, EAN-13/JAN13, Bookland EAN, Code 128, GS1- 128, Code 39, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, Code 32, Data Matrix, PDF417, ISBN, UCC Coupon Extended Code, ISSN EAN, ISBT 128, Trioptic Code 39, Matrix 2 of 5, GS1 DataBar-14, GS1 DataBar Limited, GS1 DataBar Expanded, MicroPDF417, Maxicode, QR Code, Aztec, Han Xin Code, Australian Post, US PLANET, Netherlands KIX, UK Postal, Japan Post, MicroQR, Composite C, Composite AB, TLC39.
- Aim On/Aim Off Provides an aimer light that can be switched on or off.





NOTE: This feature is not supported for RFD40 Standard devices.

Beeper

This setting provides the option to change the scanner beeper volume to **High**, **Medium**, or **Low**.

Cow High	ul হ 100		10:38
Low Medium		Beeper Settings	< Back
Medium			
			Low
High 🗸			Medium
			High

Symbologies

This setting allows users to select or enable specific barcode types.

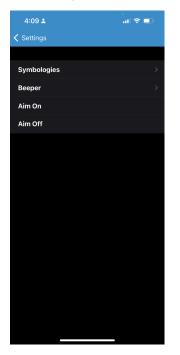


NOTE: This feature is not supported for RFD40 Standard devices.

4:09 🛓		al 🗢 🗈
< Back	Symbologies	
Permanent		
UPC-A		
UPC-E		
UPC-E1		
EAN-8/JAN8		
EAN-13/JAN1	3	
Bookland EAN		
Code 128		
GS1-128		
Code 39		
Code 93		
Code 11		
Interleaved 2	of 5	
Discrete 2 of §	5	
Chinese 2 of 5		
Codabar		
MSI		

Aim On/Off

This setting provides an aimer light that can be switched on or off.



Device Information

The Device Information displays the following:

- Model Number
- Serial Number
- Configuration
- Firmware
- RFID Radio
- Manufacture Date
- Scanner Version

4:10 🚢	.ıl 🗢 💷
Settings Device	Information
Model Number:	RFD9031-G60G700-E8
Serial Number:	220115201D0022
Configuration:	MFi
Firmware:	PAAFKS00-002-N18
RFIDRadio:	2.0.41.0
Manufacture Date:	11Jan22
Scanner Version:	PAAEOC20-003-R01

Trigger Mapping

To change the mapping for the upper and lower triggers.

- Map Upper Trigger Use the upper trigger for RFID and scanning functions
- Map Lower Trigger Use the lower trigger for RFID and scanning functions
- Available options include:
 - RFID
 - Device Scan
 - Terminal Scan
 - Scan Notification
 - No Action

	.ul ≎ 000
Trigger Mapping	
RFID	
Device Scan	
	GER RFID Device Scan Terminal Scan Scen Notification SCER RFID Device Scan Terminal Scan

Firmware Update

To perform a firmware update in the 123RFID mobile application for iOS, you need a firmware file in ".dat" format.

Updating Firmware

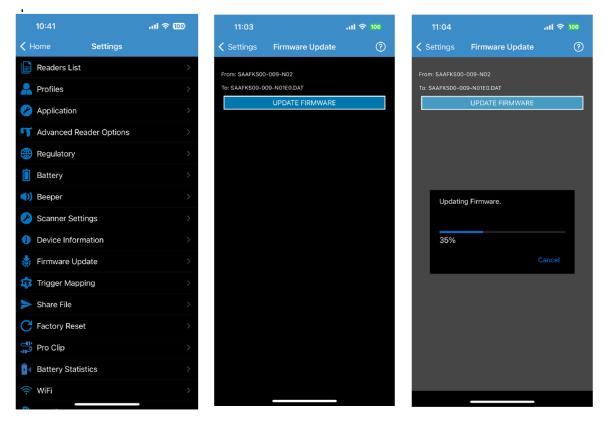
1. Open Finder on Mac and select the **Files** tab.

Finder	i 🥥 🖸 🖾
•••	✓ > iPhone IB := III III
Favourites AirDrop Property Recents	iPhone Manage Storage IPhone 13 Pro - 114.64 GB (94.59 GB Available) - 25% 🐑 General Music Movies TV Shows Podcasts Audiobooks Books Photos Files Info
Applications	Name Size Date Modified
Desktop Documents Downloads Locations Cicloud Drive	3 d Scanner App 3 d Scanner App 3 (1) 123RFID Mobile 4 (1) 23RFID Mobile 5 (1) 6 (1) 123RFID Mobile 5 (1) 123
Tags Red Orange 	> I Scaniverse > I SiteScape > I
Yellow	
Green	
Blue	
PurpleGrey	
O All Tags	

2. Create the **Download** folder on Mac and add the firmware file into that folder. Drag and drop the **Download** folder into the **123RFID Mobile** application in the finder.

Download	8 ≔ 🔲 🗔 🚃 ✓ (nwareDatFile	* = • • * *	
Folders	Other	Folders	Other	
> Download >	SAACPC01-001-R06D0.DAT	FirmwareDatFile	SAACPC01-001-R06D0.DAT	
FirmwareDatFile				
>				
>				
2				
>				
		Phone		
		PHONE		## * 1 <>
Favourites	—	-		
ŵ				Manag
AirDrop	IPhone 13 Pro - 114.6	64 GB (93.33 GB Available) · 92%		
④ Recents	General Mu	sic Movies TV Shows Pode	casts Audiobooks Books	Photos Files Info
🗛 Applications	Name	Size		Date Modified
Desktop		Size		Date Modified
Documents	3d Scanner App 3d Scanner App 3d Scanner App 3d Scanner App			
Documents	> Clips			
Download	88 ==	Ⅲ	0 0 v a	
Download	00		V 0 · 4	
Folders	Other			
> Download	SAACPC01-0	01-R06D0.DAT		
FirmwareDatFile	>			
>				
	< > iPho	ne 88		- 🗅 🖉 😑 👘
Favourites				
	iPho	one		
AirDrop	iPhone 13 Pro - 114.64 GB	(93.33 GB Available) · 92% 🚺		Manaye Storaye
 Recents 	Annual Maria	Martin Mildlen Balance	Audiobastic Bastic Bhatas	Without Inde
Applications	General Music	Movies TV Shows Podcasts	Audiobooks Books Photos	Files Info
Desktop	Name	Size	D	ate Modified
	> 5 3d Scanner App -> 123RFID Mobile			
Documents	 Download 	5.2 MB	Т	oday at 10:56 AM
Ownloads	> O Clips			
Locations	> 🗿 eMma > 🍯 GarageBand			
Cloud Drive	> 🔂 iMovie			
[] iPhone ≜	> 😫 Keynote			
Tags	 > I Numbers > 2 Pages 			
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 Orange 	 Zebra Scanner Download 	3.6 MB	7	Jun 2022 at 7:37 PM
 Yellow 		0.0 mD	,	
Green				
 Blue 				
Purple				
Grey				
All Tags				
	Apps			Sync

3. Navigate to the Firmware Update in the 123RFID Mobile application and click Update Firmware.

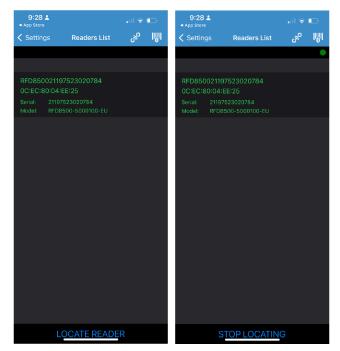


Locating a Reader

To find a reader to connect:

1. Go to the Reader List.

2. Connect the reader and tap Locate Reader. You will hear a beep.



M

NOTE: Ensure your reader is beep enabled.

Batch Mode

When the RFID reader is configured to operate in batch mode, it can read RFID tag data without being connected to a host device.

There are two types of batch mode:

- Bluetooth Batch Mode
- USB Batch Mode In USB Batch Mode, the RFID reader must connect to the iOS device using a pro-clip adapter.

Mode	Description
BATCH_MODE.DISABLE	Tags are reported in real-time as they are inventoried. No data is preserved if the application disconnects.
BATCH_MODE.ENABLE	Tags are stored in an internal database maintained in the reader and are not returned to the host in real time. While in batch mode, the reader will continue to perform inventory even if disconnected from the host.
BATCH_MODE.AUTO	Tags are reported in real time while the application running in the inventory is still connected. If the reader is disconnected, the tag data is stored in an internal database maintained in the reader. The inventory must be stopped to retrieve the stored tags, and the reader will get the stored tag data.



NOTE: To test the batch mode, exit the 123RFID Mobile iOS application when starting an inventory (Do not press stop.)

Setting Batch Mode to Auto

This setting sets the batch mode to auto.

1. In **BATCH MODE SETTINGS**, select the Batchmode to **AUTO**.



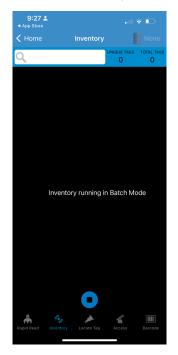
2. Start the Inventory and exit the application.



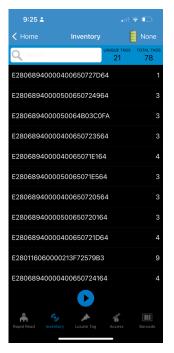
3. Connect to the reader (after Bluetooth is out of range).



4. Go to the Inventory and tap Stop.



5. The application displays tags read when Bluetooth is out of range.



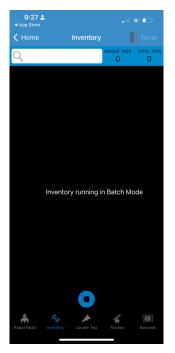
Enabling Batch Mode

This setting enables the batch mode.

1. In BATCH MODE SETTINGS, select the Batchmode to ENABLE.



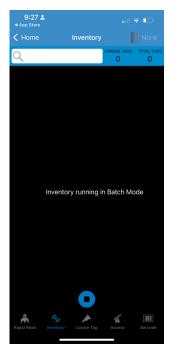
2. Start the Inventory and exit the application.



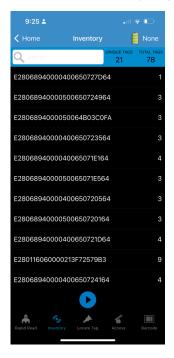
3. Connect to the reader (after Bluetooth is out of range).



4. Go to the Inventory and tap Stop.



5. The application displays tags read when Bluetooth is out of range.





NOTE: Follow the same steps when using USB Batch Mode

Disabling Batch Mode

Tags are reported in real-time as they are inventoried. No data is preserved if the application disconnects.





NOTE: Follow the same steps when using USB Batch Mode.

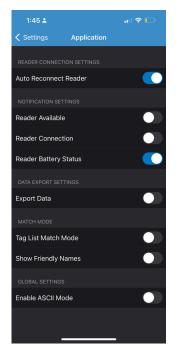
Auto Reconnect

If the option is enabled, the SDK automatically establishes a communication session with the last active RFID reader that had unexpectedly disappeared after the RFID reader was recognized as available.

Enabling Auto Reconnect

This setting enables the auto reconnect.

1. Use the toggle switch to enable the **Auto Reconnect Reader**.



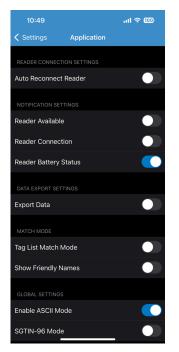
2. Exit the application and go to the Readers List setting. The reader automatically connects.



Disabling Auto Reconnect

This setting turns off the auto-reconnect.

1. Use the toggle switch to disable the Auto Reconnect Reader.



2. Exit the application and go to the **Readers List** setting. Connect the reader manually.



SGTIN-96 Encoding

Serialized Global Trade Identification Number (SGTIN-96) is a 96-bit encoding scheme frequently used in retail settings for item tracking using barcodes and RFID tags. SGTIN-96 is assigned during manufacturing and persists throughout the supply chain as part of the GTIN system.

- 1. After connecting the device, go to Settings > Application .
- 2. Enable SGTIN-96 Mode under Global Settings to enable SGTIN encoding.

09:41	all 🗢 🔳
Settings Application	
READER CONNECTION SETTINGS	
Auto Reconnect Reader	
NOTIFICATION SETTINGS	
Reader Available	
Reader Connection	
Reader Battery Status	
DATA EXPORT SETTINGS	
Export Data	
MATCH MODE	
Tag List Match Mode	
Show Friendly Names	
GLOBAL SETTINGS	
Enable ASCII Mode	
SGTIN-96 Mode	
	-

3. Tap Inventory to view encoded tags that support SGTIN-96.

09:41		at	•
< Home	Inventory	4	
Q Search	Ľ	inique tags 11	total tags 16
E280681000000	3955FFBCC	9	1
123412341234123	342600000B		2
urn:epc:tag:sgtin- 241155747322	96:1.006432.	.1577125.	2
E280681000000)3955FE907E		1
ABCD064806042	9782600000	C	3
E280681000000)3955FFBDC/	4	1
E280681000000	3955FFBDCI	F	1
E280681000000)3955FFB8B3	3	1
Rapid Read Inventory	Locate Tag	Access	Barcode

Scanner Batch Mode

Use the Scanner Batch mode to scan barcodes without connecting to the mobile application. When you connect to the mobile application, all scanned barcodes are visible in the barcode section.



NOTE: These features are not supported for RFD8500 and RFD40 Standard devices.

- **1.** Disable Bluetooth on the mobile device to disable the connection between the mobile device and the reader.
- **2.** Start scanning barcodes with the reader.
- **3.** After scanning, connect the device using the mobile devices' Bluetooth menu.



4. Go to Settings > Readers List to connect to the reader.

5. Go to Inventory > Barcode to observe the scanned barcodes.



WLAN

Enable Wi-Fi to identify WLAN networks, connect to Available Networks, and share access to the network with a reader.

- 1. Go to Settings > Wi-Fi Settings and confirm that Wi-Fi is enabled.
- 2. Select a WLAN profile from the Available Networks list.



3. Enter the password and tap Add Profile to add the WLAN profile.

Enable WiFi				
Connected Network				
Saved Networks				
Available Networks	G			
SLT-Fiber-CDj8D-2.4G	6			
SLT-Fiber-CDj8D-5G	6			
	0			
	×			
SLT-Fiber-CDj8D-2.4G				
Protocol WPA_Perse	onal_TKIP			
Password				
ADD PROFILE				

4. Select a WLAN profile from the **Saved Networks** list, and tap **Share Profile** to share access with a connected reader.

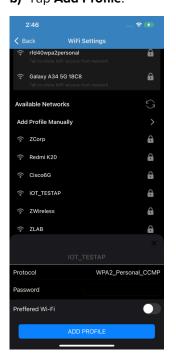
Enable WiFi	
Connected Network	
Saved Networks	
OPPO F9 Tab to share WiFi access from network	
Available Networks	5
O 0000 F0	×
Share WiFi Access with connected reader	0
Would you like to share access to 0 F9 with your RFD40+_211555201D reader?	
SHARE PROFILE	
DELETE PROFILE	

Tap **Delete Profile** to remove a specific profile from the **Saved Networks** list.

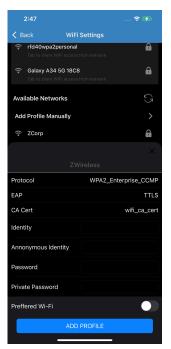
Creating a WLAN Profile

Create personal, enterprise, and non-encrypted profiles.

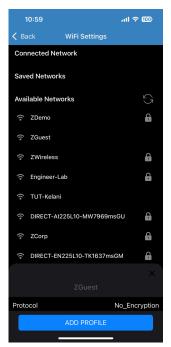
- 1. Select your desired WLAN Personal profile.
 - a) Enter a password.
 - b) Tap Add Profile.



- 2. Select your desired WLAN Enterprise profile.
 - a) Enter the required details.
 - **b)** Select the protocol, EAP, and certificates.
 - c) Tap Add Profile.



- **3.** Select your desired WLAN No_Encryption profile.
 - a) Tap Add Profile.



WLAN Status and Settings

View current Wi-Fi status and settings or disconnect from a network.



NOTE: These features are not supported for RFD8500 and RFD40 Standard devices.

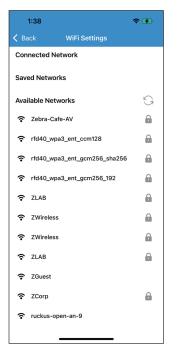
1. Go to Settings > Wi-Fi.

3:34		all 🗢 📧
Settings	WiFi Settings	
Status		>
Settings		>

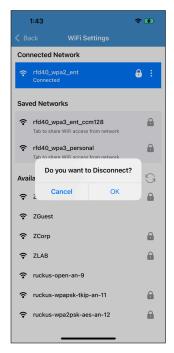
2. View current Wi-Fi status and settings or disconnect from a network.

1:43	? D
< Back	WiFi Settings
Netmask	: 255.255.255.0
Mac	: 34:8A:12:BF:22:07
Band	: 2.4GHz
Rssi	: -41
Ssid	: rfd40_wpa2_ent
Channel	: 11
Address	: 10.233.46.215
State	: CONNECTED
Wifi	: ENABLE

3. Tap Settings to automatically scan for WLAN networks. The Available Networks list displays.



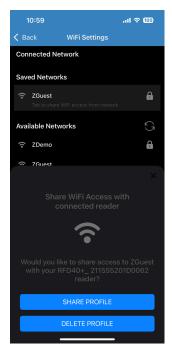
4. Tap the connected WLAN profile from the **Connected Network** list to disconnect the WLAN profile from the device.



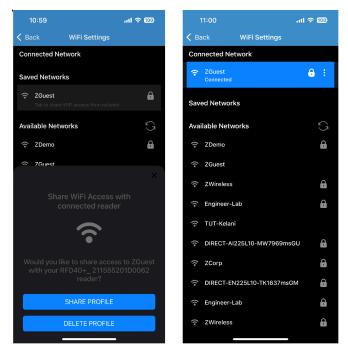
5. Click OK.

WLAN Profiles Settings

- 1. Select your desired WLAN profile to be deleted.
 - a) Click Delete Profile.



- 2. Select your desired WLAN profile to be connected.
 - a) Click Share Profile.



3. To disconnect the WLAN connection:

a) Click the : (1) and select Disconnect.

A message to disconnect displays.

11:50		.1	<u>چ</u> ا	100
Connected I	Network			
ZGuest Connecte	ed		•	:
Saved Netw	orks			
Available Ne	tworks			9
DIRECT	-AI225L10-M	W7969msGU		6
	you want to	Disconnect	?	•
ົ c				
C DIRECT	-CM225L10-	OW9117msWZ		A
C DIRECT	-06225L10-8	EH2269-1msQ		•
🙃 Enginee	r-Lab			•
🛜 ZWirele				A
ᅙ ZGuest				
				•
💮 ZDemo				_

4. Click OK.

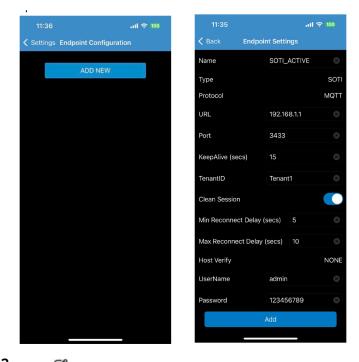
Endpoint Configuration

Add, edit, or delete an endpoint configuration.



NOTE: These features are not supported for RFD8500 and RFD40 Standard devices.

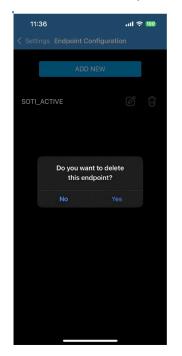
 Go to Settings > Endpoint Configuration and select Add New to add a new endpoint configuration. Click Add to add the new configuration to the list.



2. Click I to update or modify a specific endpoint configuration from the list. Click **Update** to save the changes.

all 🗟			11:36	ail 🗟 I		1:36
	Settings	Endpoin	< Back	uration	Endpoint Configura	
VE	OTI_ACTI		Name		ADD NEW	
			Туре		ADD NEW	
Ν			Protocol			
	92.168.1.1		URL			
	433		Port			
	5	(secs)	KeepAlive			
	enant1		TenantID			
		ion	Clean Sess			
	cs) 5	nect Delay (s	Min Recon			
	ecs) 10	nect Delay (s	Max Recor			
٢			Host Verify			
	dmin		UserName			
<	xxxxxxx		Password			
	ate	Up				

3. Click $\widehat{\blacksquare}$ to delete a specific endpoint configuration from the list.



SOTI

SOTI is recognized as a leader in mobility management, with security solutions for mobile devices developed before the concept of Mobile Device Management (MDM) was established. As business mobility grew, SOTI made advancements in the market towards Enterprise Mobility Management (EMM), which is now focused on Unified Endpoint Management (UEM) and the Internet of Things (IoT). SOTI simplifies the management of diverse mobile environments across multiple operating systems and vendors. With the MobiControl solution, devices, applications, content, and security can be managed from a single console.

To add a new endpoint:

1. Click the Add New to access the Endpoint Settings screen.



The **Endpoint Settings** screen displays.



- 2. Enter the Name.
- 3. Select the endpoint Type as SOTI.

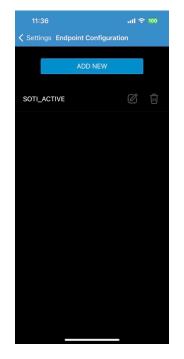
- 4. Select the **Protocol**:
 - MQTT
 - MQTT_TLS



NOTE: There are additional **Protocol** options available; however, only **MQTT** and **MQTT_TLS** are supported.

- 5. Enter the **URL** or server address and provide the **Port** number.
- 6. Specify the Keepalive setting and enter the Tenant ID.
- 7. Set the minimum delay timer for reconnecting in the Min Reconnect Delay settings.
- 8. Set the maximum delay timer for reconnecting in the Max Reconnect Delay settings.
- 9. Select the Host Verify option from the drop-down menu.
- 10. Enter the Username and Password and click Add.

The SOTI endpoint is added to the Endpoint Configuration settings.



MDM

Mobile Device Management (MDM) is a part of the Enterprise Mobility Management (EMM) suite, which also includes Mobile Application Management (MAM), Identity and Access Management (IAM), and Enterprise File Syncing and Sharing. MDM enables secure configuration of both user-owned and organization-owned devices by sending profiles and commands to these devices via wired, Wi-Fi, or cellular connections.

To add a new endpoint:

1. Click the Add New to access the Endpoint Settings screen.



The **Endpoint Settings** screen displays.

		🗢 🗖
< Back	Endpoint Settings	
Name		
Туре		MDM
Protocol		MQTT
URL		
Port		
KeepAlive (secs)		
TenantID		
Clean Session		
Min Reconnect [Delay (secs)	
Max Reconnect I	Delay (secs)	
Host Verify		NONE
UserName		
Password		
Command Topic		
	Add	

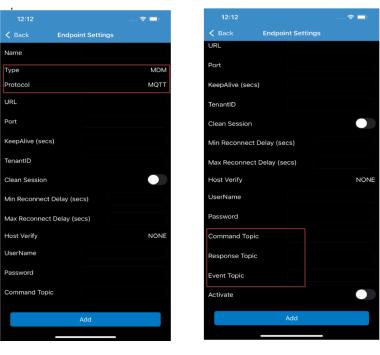
- 2. Enter the endpoint Name.
- 3. Select the endpoint Type as MDM.

- 4. Choose the **Protocol**:
 - MQTT
 - MQTT_TLS



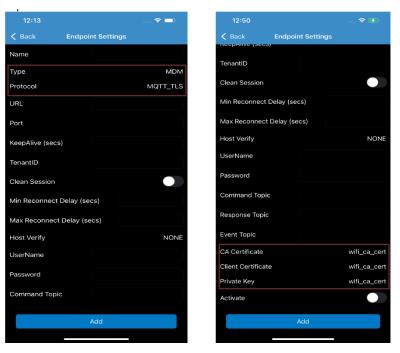
NOTE: There are more options available; however, only **MQTT** and **MQTT_TLS** are supported.

- 5. Enter the URL or server address and provide the Port number.
- 6. Specify the Keepalive setting and enter the Tenant ID.
- 7. Set the minimum delay timer for reconnecting in the **Min Reconnect Delay** settings.
- 8. Set the maximum delay timer for reconnecting in the Max Reconnect Delay settings.
- 9. Select the **Host Verify** option from the drop-down menu.
- 10. Enter the Username and Password and click Add.
- **11.** For MDM using **MQTT**, add the following parameters:



- Command Topic
- Response Topic
- Event Topic

12. For MDM using MQTT_TLS, add the following parameters:



- CA Certificate
- Client Certificate
- Private Key

The MDM endpoint is added to the Endpoint Configuration settings.

About

This screen displays:

- Application Version
- RFID SDK Version
- Barcode SDK Version

9:23 🛓	,.II 🗢 🔲			
 Search ✓ Home 	About			
Zebra RFI	D Application			
Zebra Technologies				
Application Version	: v.1.1.22			
RFID SDK Version	: v.1.1.9			
Barcode SDK Version	: v.1.4.31			
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Battery Support

This screen displays the battery details. Go to **Settings** > **Get Battery Status** to view the following screen.



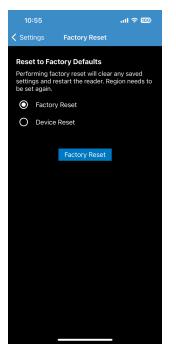
NOTE: This feature is not supported for RFD8500.

10:55	.ıl ବ 🎟
Settings Battery Star	tistics
Battery Asset Information	
Manufature Date	110CT2022
Model Number	BT-000380
Battery ID	78861F031D0E107B
Battery Life Statistics	
State of Health	100%
Charge Cycles Consumed	
Battery Status	
Charge Percentage	80%
Charge Status	
Battery Temperature	
Present	26°C

Factory Reset

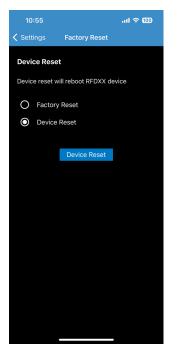
Performing a factory reset will erase all saved settings and restart the reader. The region must be set again, and profiles need to be reconfigured on the reader.

Go to **Settings** > **Factory Reset** to view the following screen.



Device Reset

Performing a device reset reboots the reader without a need to reconfigure the region and profiles.





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