



SLS smartREADER

User Guide

Version 1.4

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Getting Started

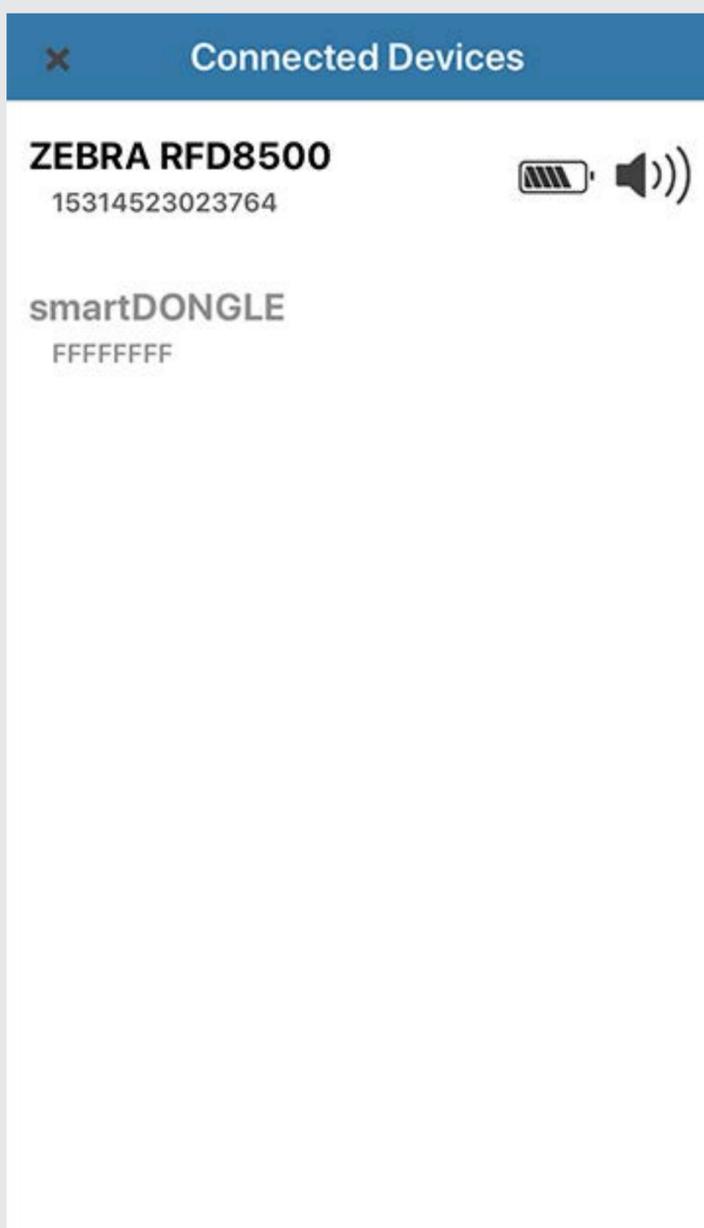
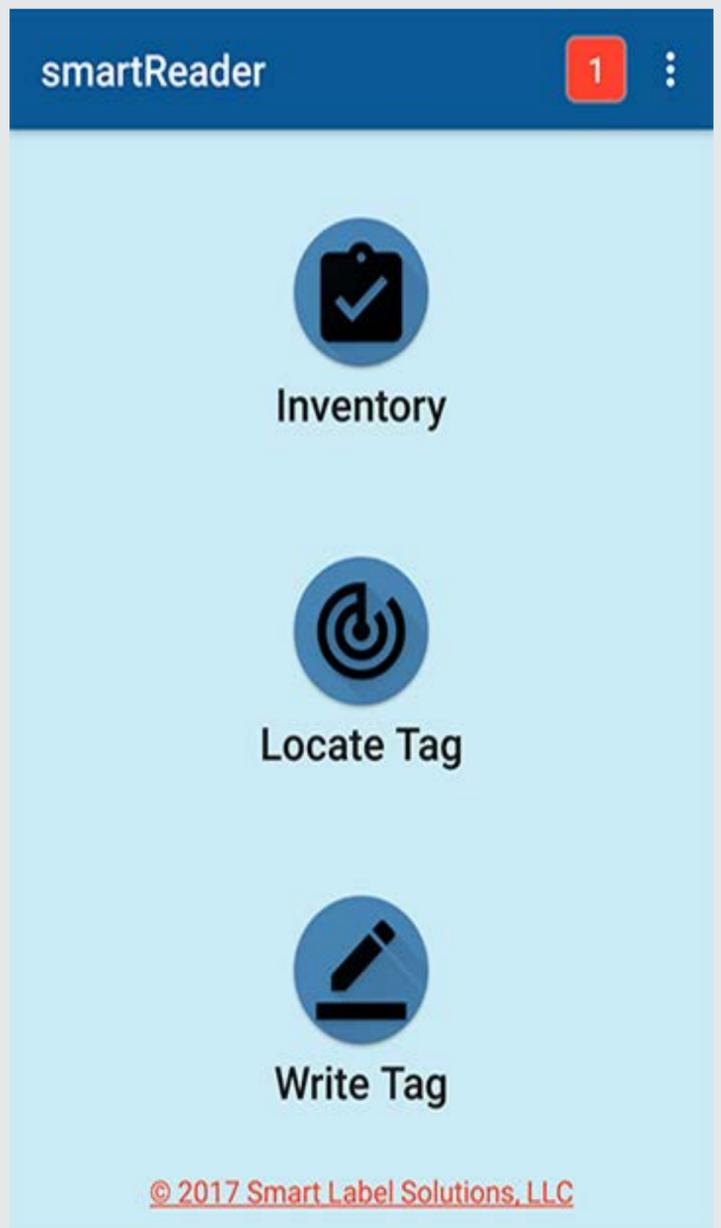
The smartREADER app from Smart Label Solutions enables three key functions: Inventory, Locate and Write UHF EPC GEN 2 (RAIN) RFID tags.

To get started, install the smartREADER app from the Apple App Store or Google Play or use the link at the bottom of the smartREADER home page: [Here](#)

iOS

Android

Connect to RFID Reader



The first step to connect an RFID reader to your device either via Bluetooth, audio port, lightning port or micro USB port. If connecting via Bluetooth, you may first need to go into the Bluetooth settings of your device to search for and connect to the reader.

RFID readers from TSL will identify with a number which the first six numbers are last digits of the reader serial number (found on device label) and then the model number with a hyphen separator. For example, a TSL Model 1153 reader with a serial number ending in 123456 will appear in the Bluetooth settings list as 123456-1153 and a TSL 1166 with serial number ending in 012345 will appear as 012345-1166.

RFID readers from Zebra will identify as the model number then first 10 digits of the serial number at the end. For example, a Zebra Model RFD8500 with serial number 12345678901111 will identify as RFD85001234567890. **Note that it is necessary on the Zebra RFD8500 to pull and hold the trigger when attempting to pair via Bluetooth for the pairing to be successful.** Release the trigger once RFD8500 is paired (RFD8500 beeps and Bluetooth light goes from blinking to solid blue); see the RFD8500 User Guide for more information or details.

Once paired with the RFID reader in the Bluetooth settings on your mobile device, or the RFID dongle inserted in the appropriate port, proceed to verify connection in the smartREADER application:

1. Tap the clipboard (iOS) or 3 stacked dots (Android) icon in the upper right of the home screen to display connected and available devices.
2. Select the device you want to use.
3. You can also view battery level and tap the sound icon to mute, or unmute, the device beeper (where applicable)
4. Tap the return arrow in the upper left of the connected devices screen to return to the home page of the smartREADER app.

Inventory

RFID Tag	Reads
E2801160600002053CDB89C2	1
E280116060000207B9503DDB	1
E2801160600002053CDB8992	1
E280116060000207B9503DAB	1
FFFFFFFFFFFFFFFFFFFFFFFF	1
E2801160600002053CDB89A2	1
E280116060000207B9503D8B	1
00000000000000000000002701	1
E2801160600002053CDB89B2	1
E280116060000207B950792B	1
E2801160600002053CDB8972	1

Read: 11
Clear

RFID Tag	Reads
33105E30A701348000000213	3
33105E30A701348000000242	2
33105E30A701348000000217	1
33105E30A70134800000023D	1
33105E30A70134800000021B	1
33105E30A701348000000214	1
33105E30A701348000000238	1

Read: 10
Clear

To perform an inventory, perform the following:

1. From the home screen, tap the Inventory icon
2. Begin an inventory scan:
 - a. RFID dongle devices such as smartDONGLE and smartMICRO will begin scanning immediately
 - b. Readers will require a trigger pull to begin scanning.
 - c. Note that the number of reads on each tag is displayed in each row as well as the total number of tags inventoried at bottom of screen
3. Once done with Inventory you can either clear the inventory by tapping the 'Clear' button, return to home screen by tapping return arrow or email the inventory results by tapping the envelope icon in the upper right corner of the Inventory screen.

Email Inventory Results

Cancel **New Message** Send

To:

Cc/Bcc, From: dccillustration@gmail.com

Subject:


SummaryLog.csv


RawLog.csv

< Inventory  **1**

RFID Tag	Reads
33105E30A701348000000213	3
33105E30A701348000000242	2
33105E30A701348000000217	1
33105E30A70134800000023D	1
33105E30A70134800000021B	1
33105E30A701348000000214	1

Send Inventory Data via Email:

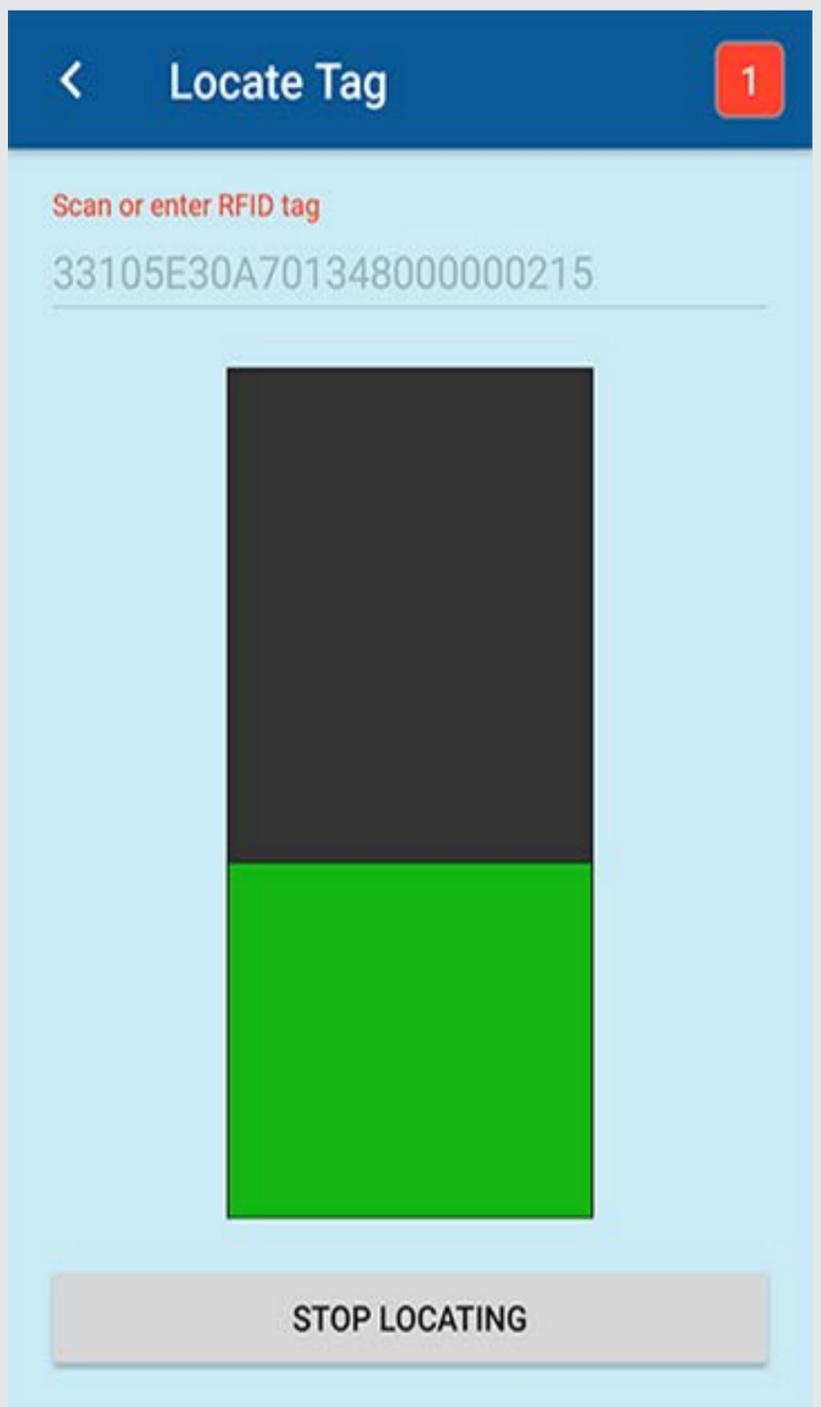
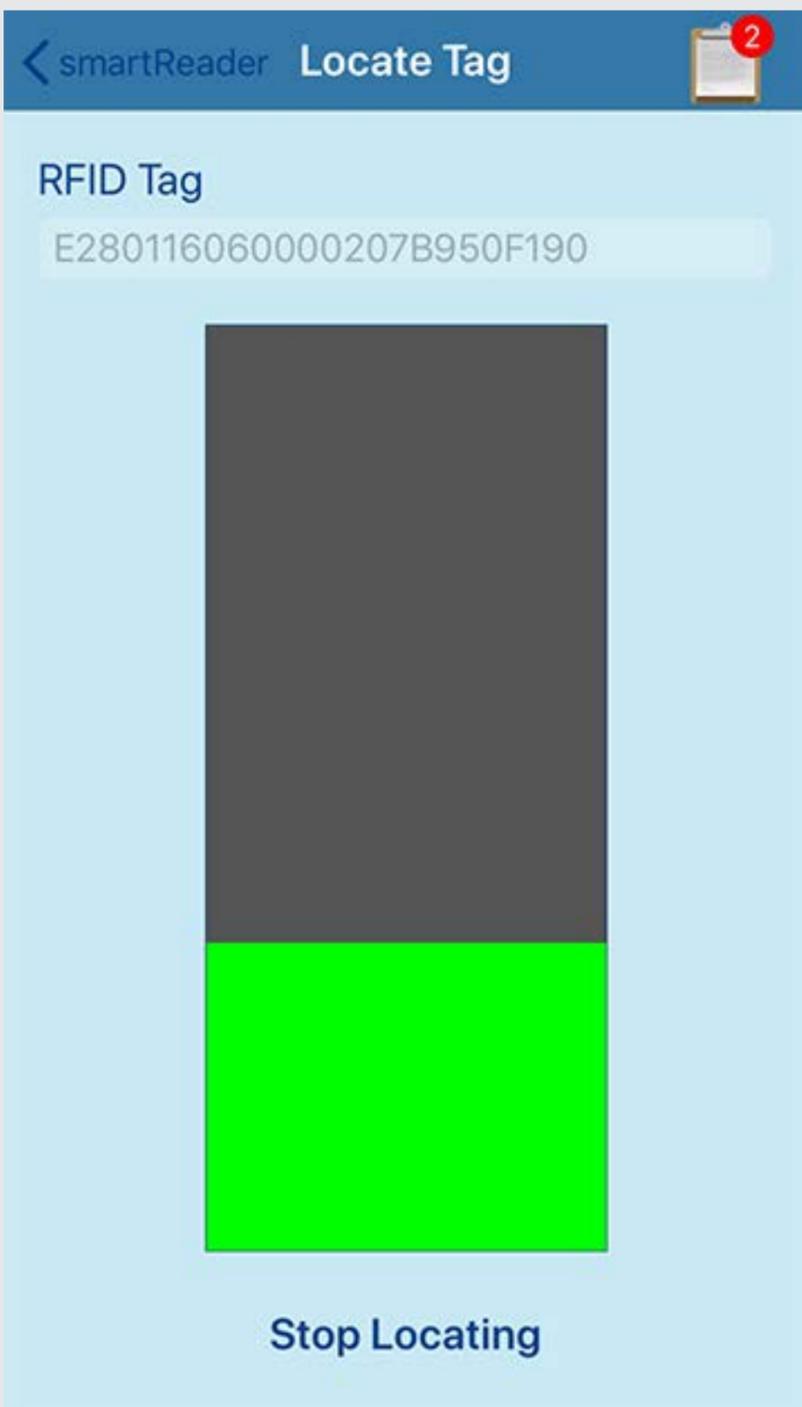
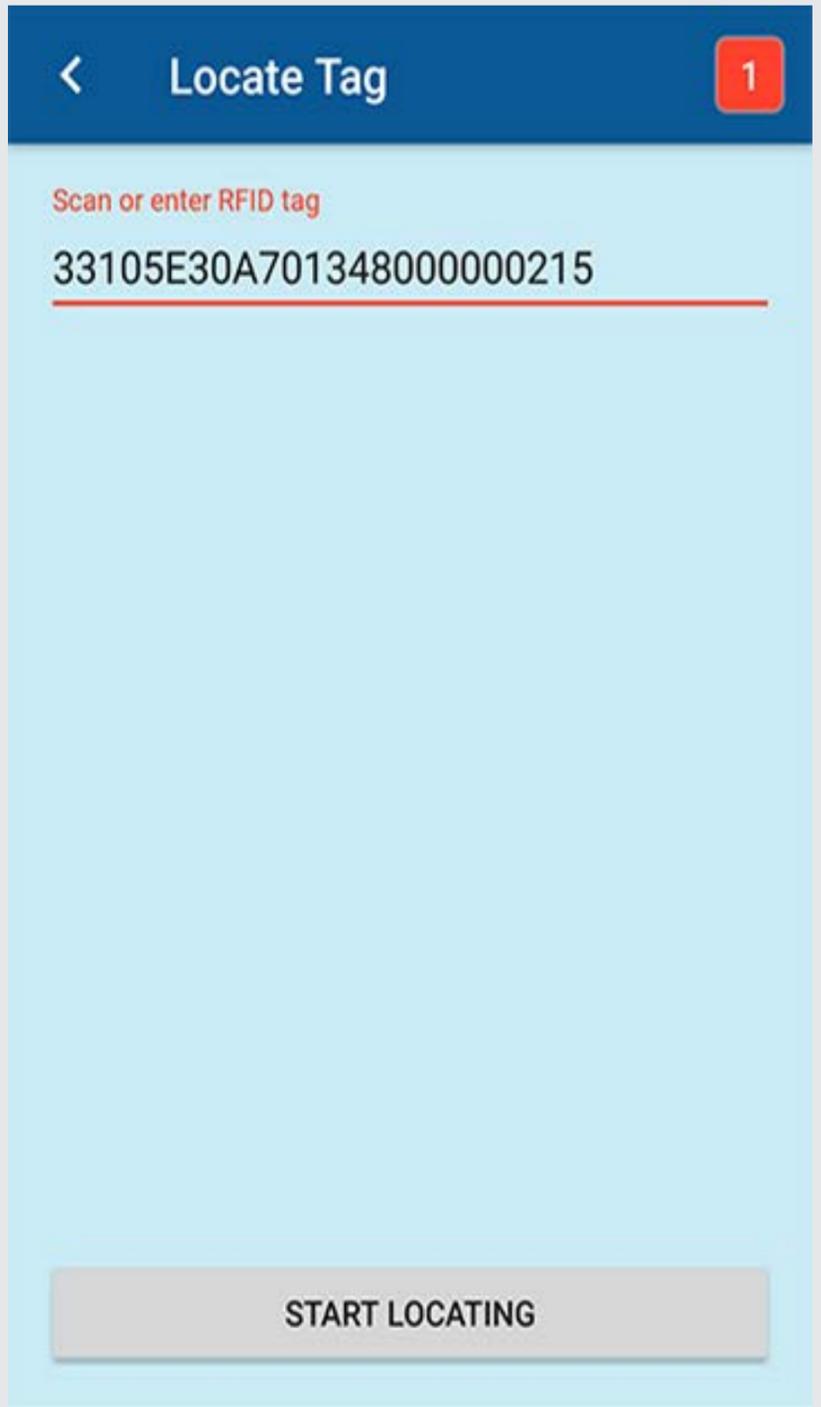
 

Save to Drive Gmail

To send inventory results as an email:

1. From the inventory screen, tap the envelope in the upper right-hand corner
2. In iOS, the default mailer will open with the two inventory files already attached. In Android, you may need to select the mail application to use.

Locate Tag

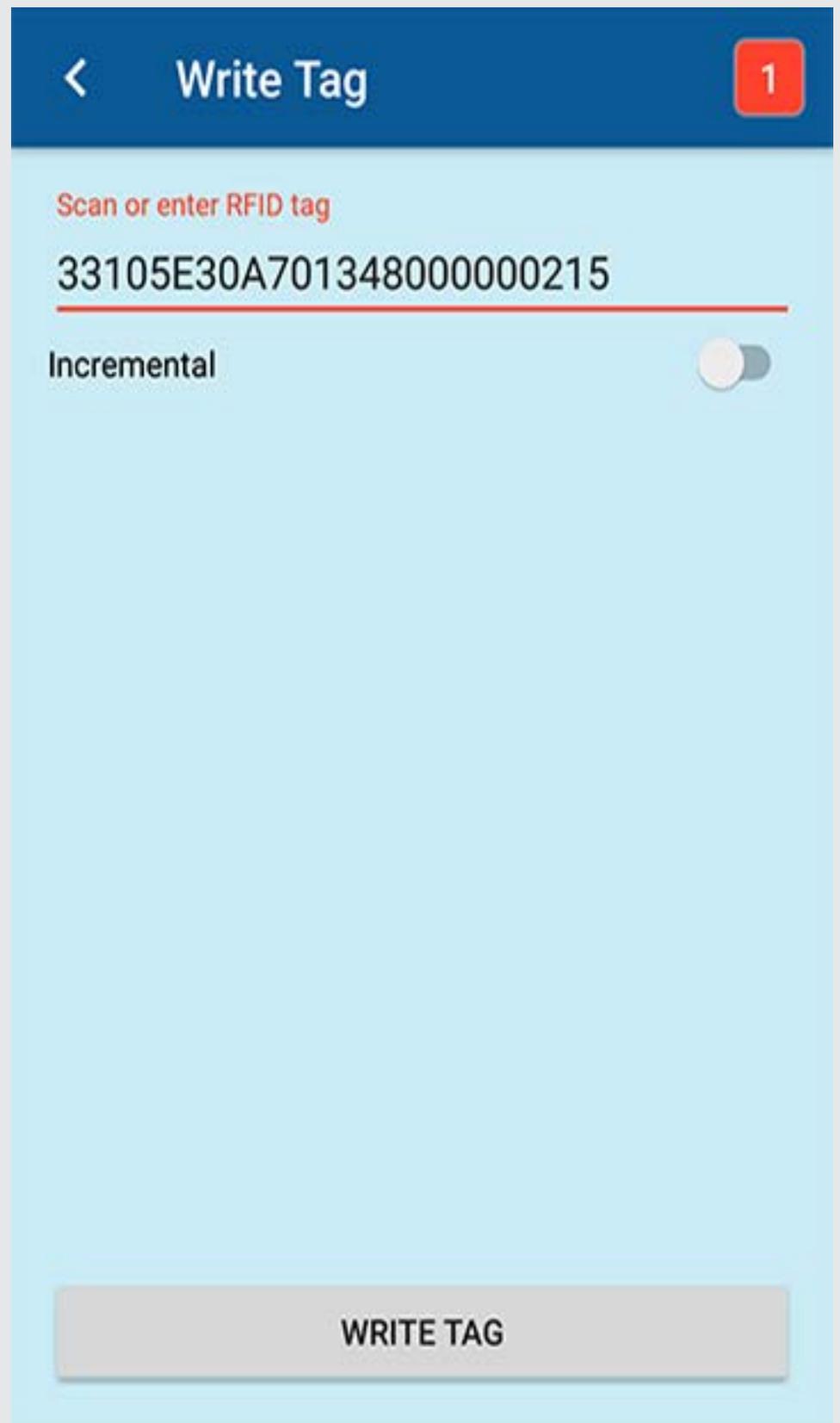
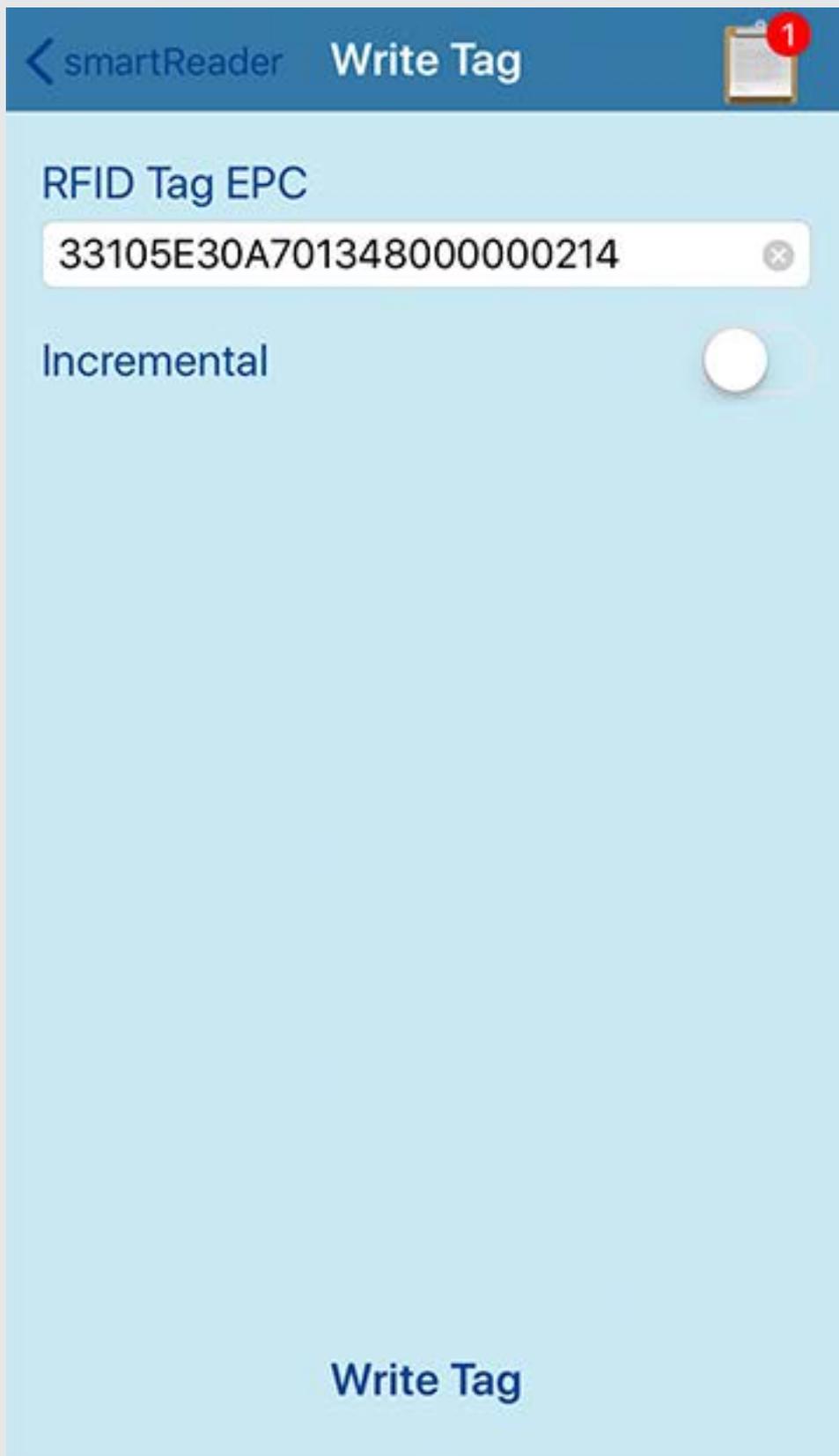


You can locate a specific RFID tag using the Locate tag feature. This feature will display both a visual and audible deflection increasing in intensity as you approach the designated RFID tag.

To use the locate tag feature:

1. From the home screen, tap on the "Locate Tag" icon
2. Type or scan the RFID tag you wish to locate
3. Select "Start Locating" at bottom of screen
4. When done. Select "Stop Locating" at bottom of screen

Write Tag



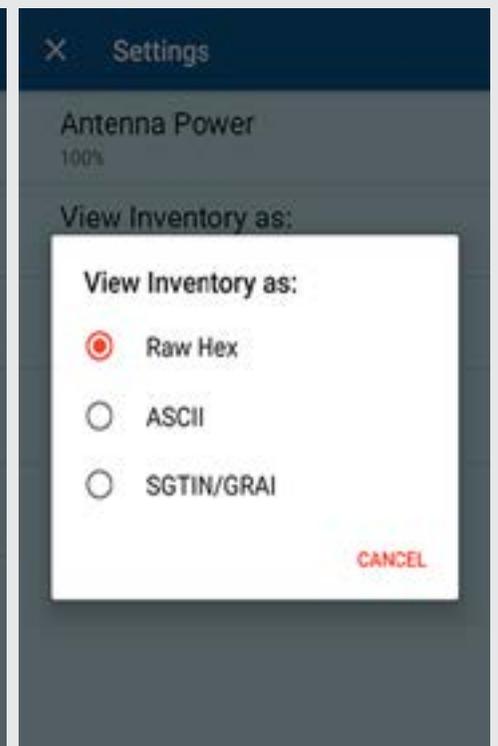
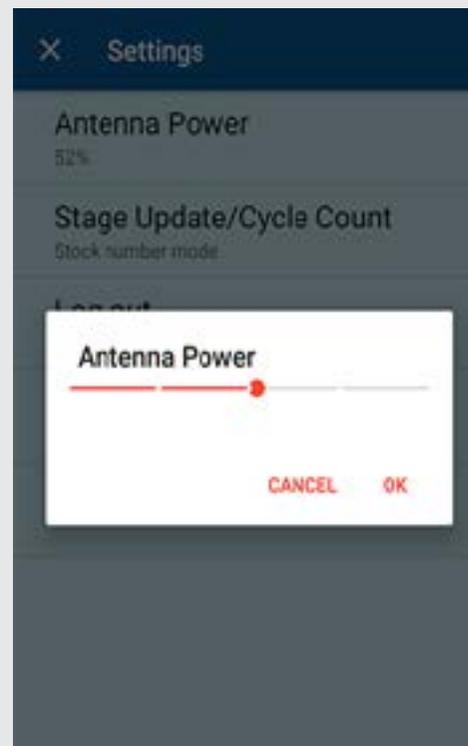
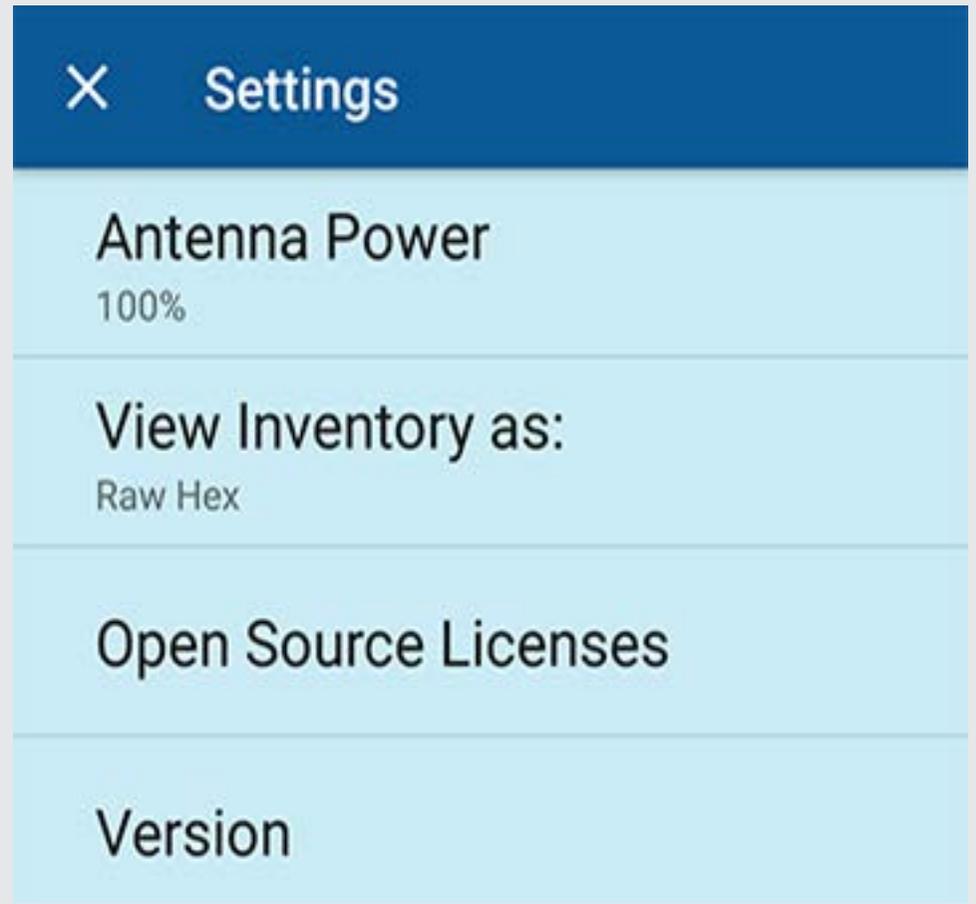
You can change the EPC of a tag (assuming not locked) using this feature. Note that smartREADER currently only supports 96 bit EPCs.

You can use the 'Incremental' option to automatically count up (in decimal) once the tag is written and be ready to encode/write the next tag.

To write a tag:

1. From the home screen, select the Write Tag icon
2. Enter or scan the EPC to be encoded to the tag
 - a. On an iOS device, you may need to dismiss the keyboard ("Done") after this step
3. Place the tag in the read field and Select "Write Tag" at bottom of the screen
 - a. The first tag responding will be encoded – be sure to either reduce Antenna Power (see "Settings" section) and/or isolate the desired tag some distance from those you do not want to write
 - b. If you get a message "Failure code: -204", this means there was insufficient power to write the tag; please increase Antenna Power or place tag closer to the RFID reader

Settings



The Settings screen allows you to configure the Antenna Power, set which format to view the RFID tag data (Raw Hex, ASCII, SGTIN/GRAI) and view the version of the app.

To set Antenna Power:

1. In iOS, move the slider bar to desired position. In Android, tap the Antenna Power to open the slider bar, set to desired position and select 'OK'.

To set inventory view:

1. In iOS, tap the desired inventory view format. In Android, tap "View Inventory as:," select the desired inventory view format and then select "OK".