

DENSO



Navigation TAG Application Operation Manual

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1 Overview

This demo application is an application that turns on/off the TAG and acquires the battery status.

This application consists of the following.

- ① TAG registration
- ② Turn on/off TAG
- ③ TAG list display

Each TAG has the same TAG number as the QR code attached to the TAG.

The TAG number is 12 alphanumeric characters.

You can also register a group ID for each TAG.

The group ID is a number from 1 to 9999.

You can register the same group ID for multiple TAGs.

You can turn on/off one TAG by choosing the TAG number.

By choosing the group ID, you can turned on/off TAGs at once.

The procedure for turning on/off the TAG is as follows.

【When using TAG ID】

- ① On the "Register TAG" screen, scan the QR code attached to the TAG and register the TAG on the application.
- ② On the "Turn on/off TAG" screen, enter the TAG number (by scanning QR code) of the TAG to turn on/off.
- ③ On the "Turn on/off TAG" screen, press the "Turn on" or "Turn off" buttons.

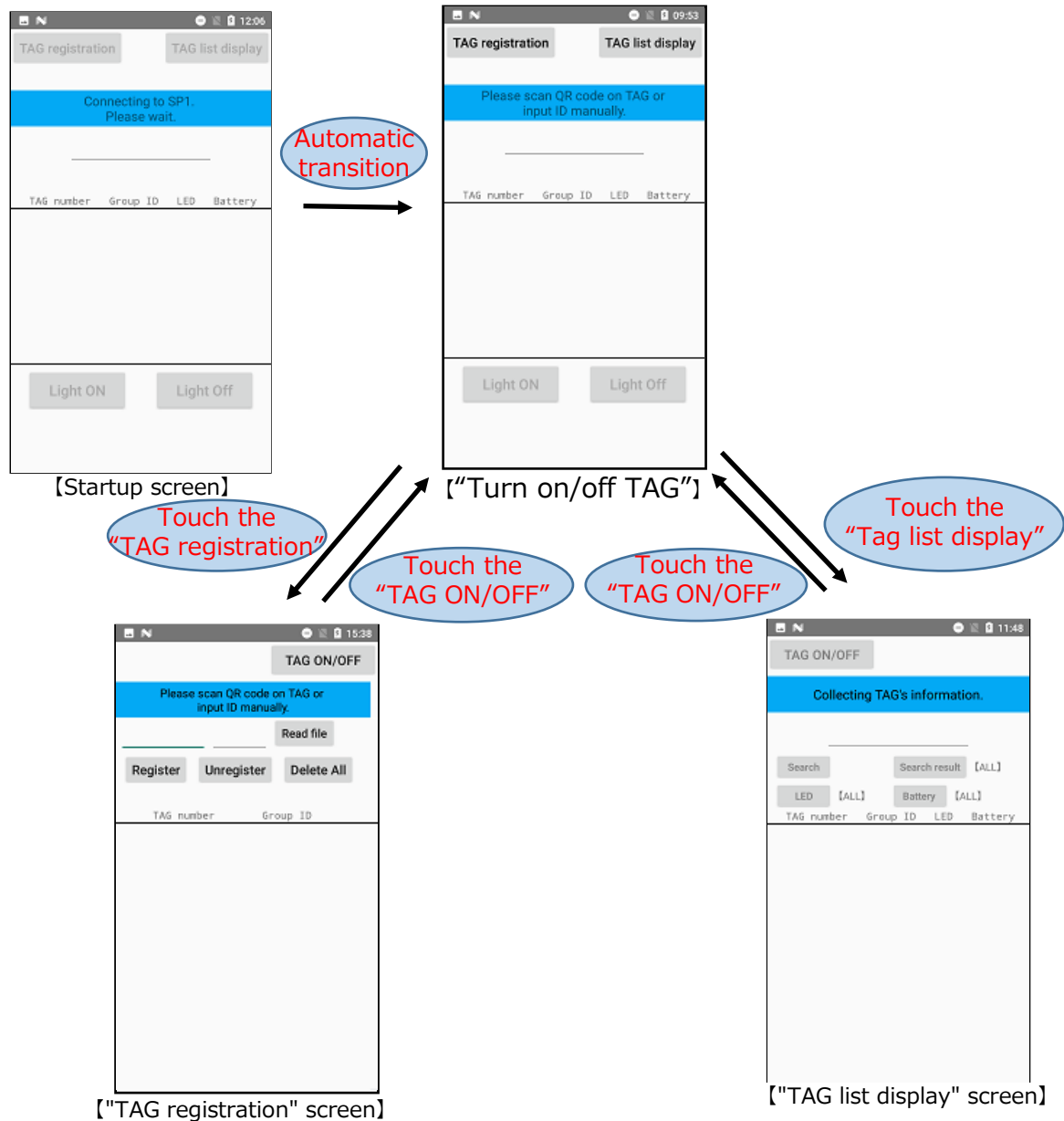
【When using TAG group No.】

- ① On the "Register TAG" screen, scan the QR code attached to the TAG and register the TAG on the application.
- ② On the "Register TAG" screen, enter the group ID (1 to 9999) for the registered TAG and register.
- ③ On the "Turn on/off TAG" screen, enter the group ID to turn on/off.
- ④ On the "Turn on/off TAG" screen, press the "Turn on" or "Turn off" buttons.

You can check the battery status of the TAG on the "Turn on/off TAG" screen and "TAG list display" screen.

2. Screen Transition

The screen transition of this application is as follows.



You can perform the following operations on each screen.

Screen	Operation
"TAG registration" screen	Register the TAG number and group ID of TAG in the application.
"TAG ON/OFF" screen	Turn on/off TAG by choosing TAG number and group ID of TAG.
"TAG list display" screen	Displays the status of the TAG registered in the application.

3. "TAG registration" screen

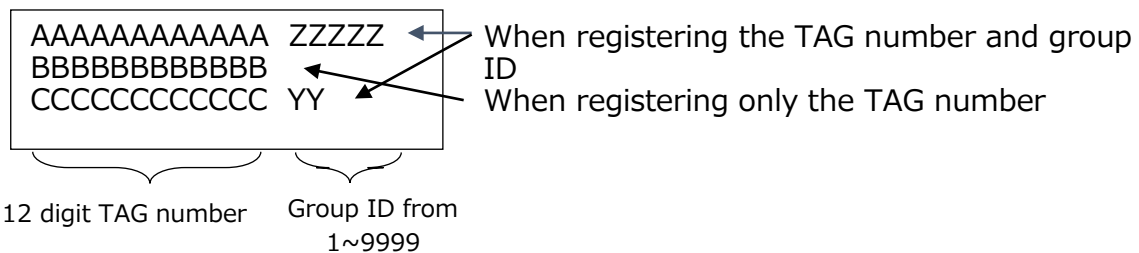
On the "TAG Registration" screen, register the TAG number of the TAG and the group ID to the BHT-180. There are the following two registration methods.

- Register using a registration file
- Register manually

(1) How to register using the registration file

① Creation of registration file

Create a registration file in the following format using a personal computer.
The file name is "light_tag.txt".



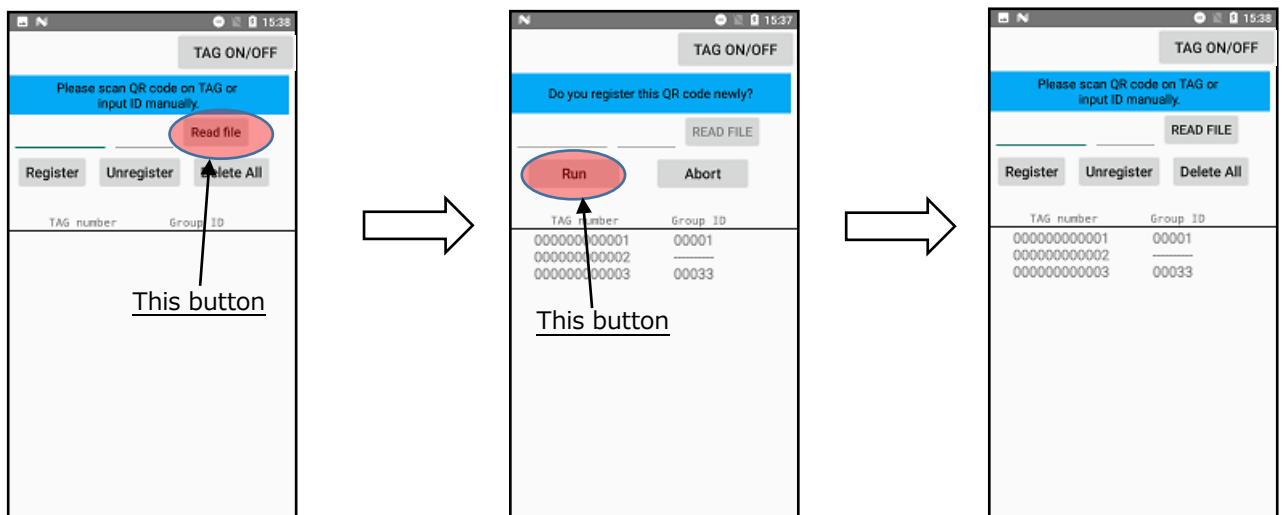
② Download registration file

Download the created registration file ("light_tag.txt") to the following folder of smart device.

•Internal shared storage¥Android¥data¥com.densowave.demoforledtag¥files

③ Read registration file

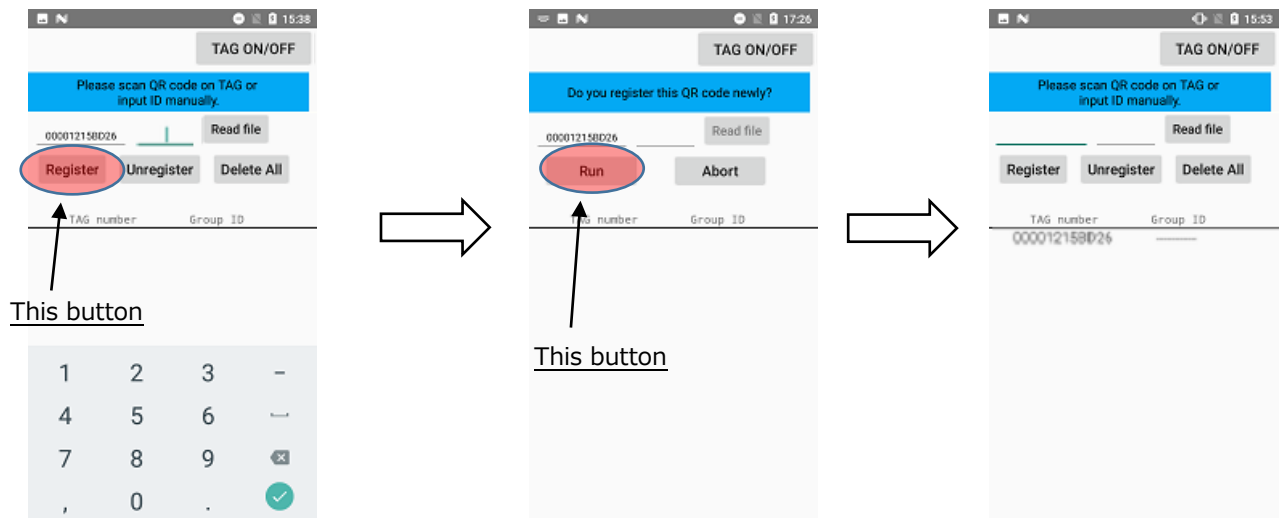
By touching the "Read File" button on the "TAG Registration" screen, the registration file will be loaded to the application.



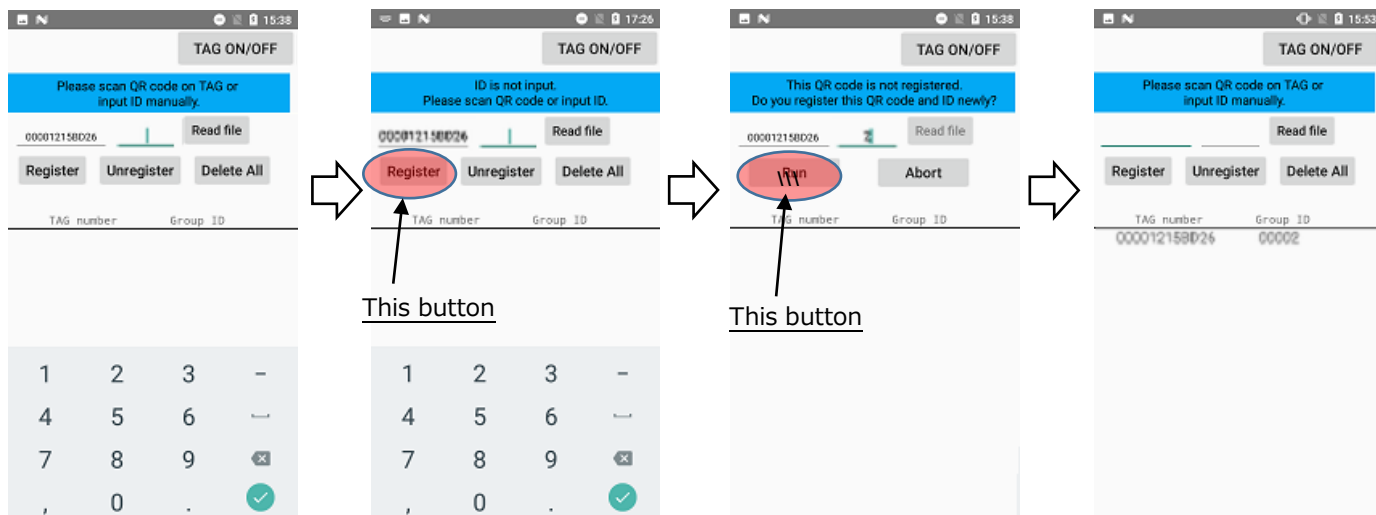
(2) Manual registration method

① How to register only the TAG number

- Read the QR code attached to the TAG with SP1.
- Click the "Register" button.
- Click the "Run" button.

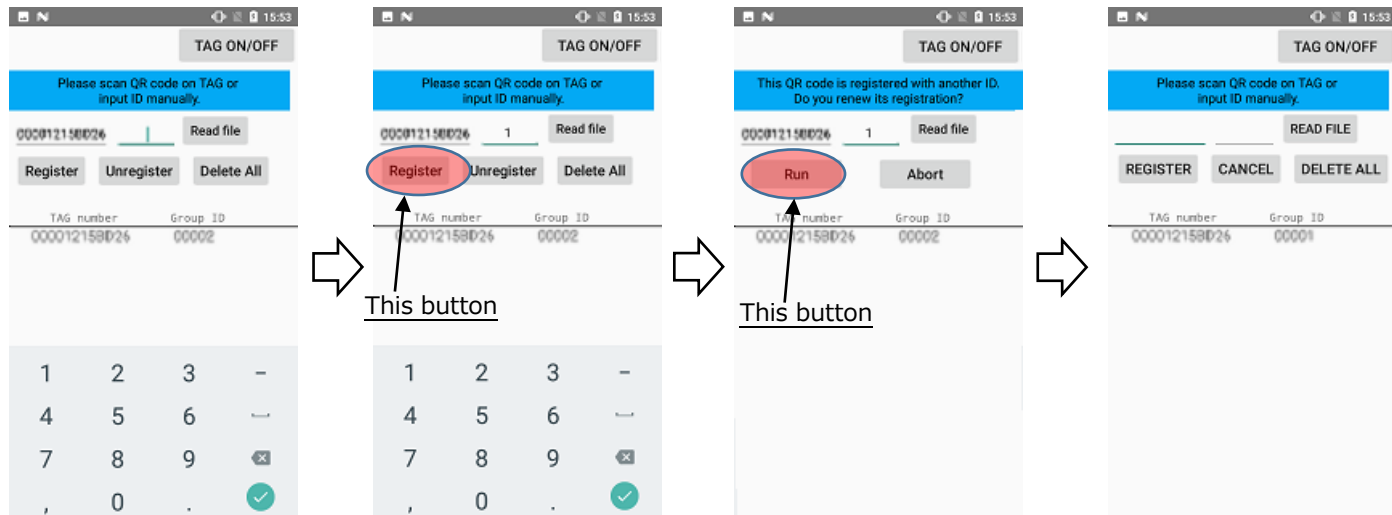


- Read the QR code attached to the TAG with SP1.
- Read the QR code that contains the group ID, or enter a number from 1 to 99999.
- Click the "Register" button.
- Click the "Run" button.



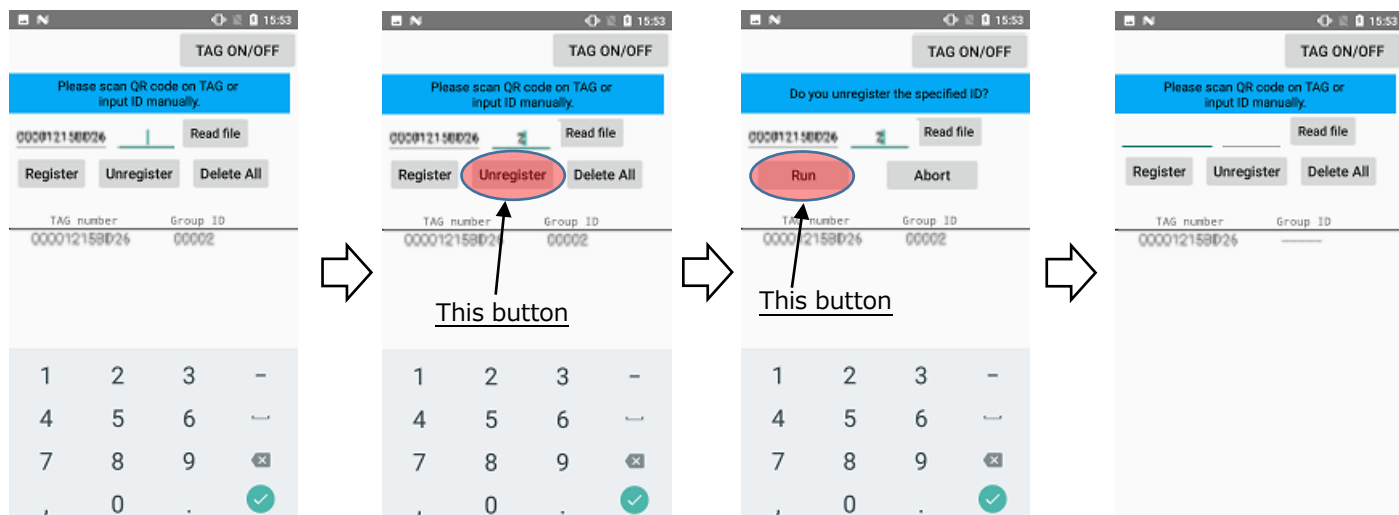
(3) How to change the registered TAG group ID

- Read the QR code attached to the TAG with SP1.
- Read the QR code that contains the group ID, or enter a number from 1 to 99999.
- Click the "Register" button.
- Click the "Run" button.



(4) Unregister the registered TAG group ID

- Read the QR code attached to the TAG with SP1.
- Read the QR code containing the group ID to be canceled, or enter a number from 1 to 99999 to be canceled.
- Click the "Unregister" button.
- Click the "Run" button.



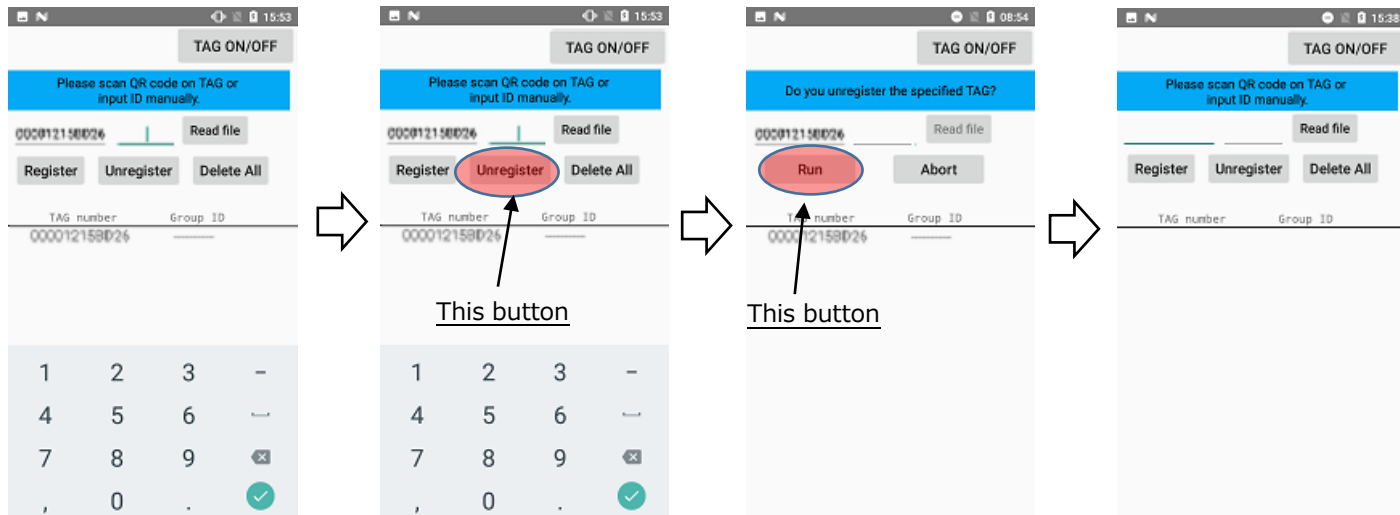
(5) How to unregister the registered TAG

- Read the QR code attached to the TAG to be unregistered with SP1.
- Click the "Unregister" button.
- Click the "Run" button.

(Note)

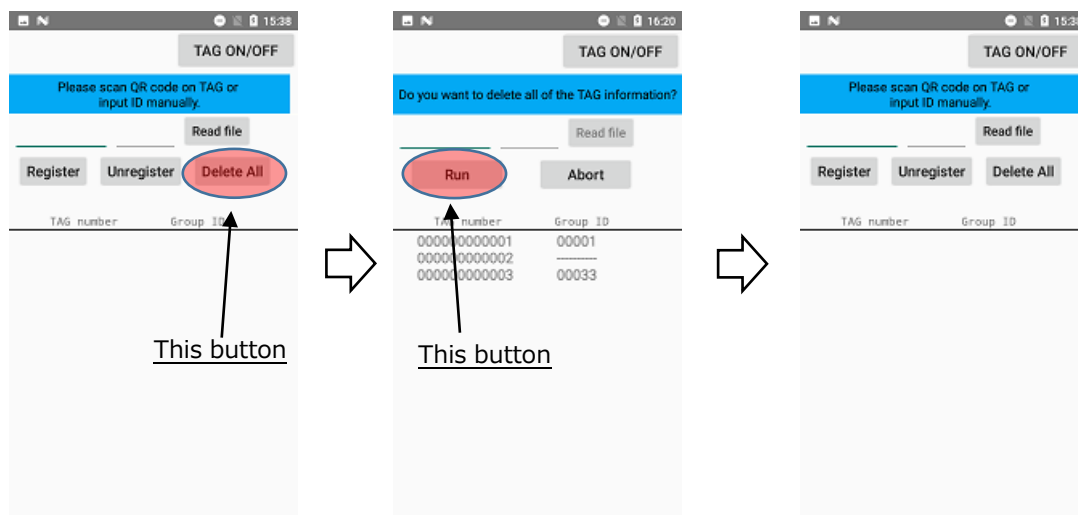
If the TAG you want to unregister is registered as a group, you cannot unregister the tag.

First, deregister the group ID according to (4) and then execute.



(6) How to unregister all registered TAGs

- Click the "Delete All" button.
- Click the "Run" button.

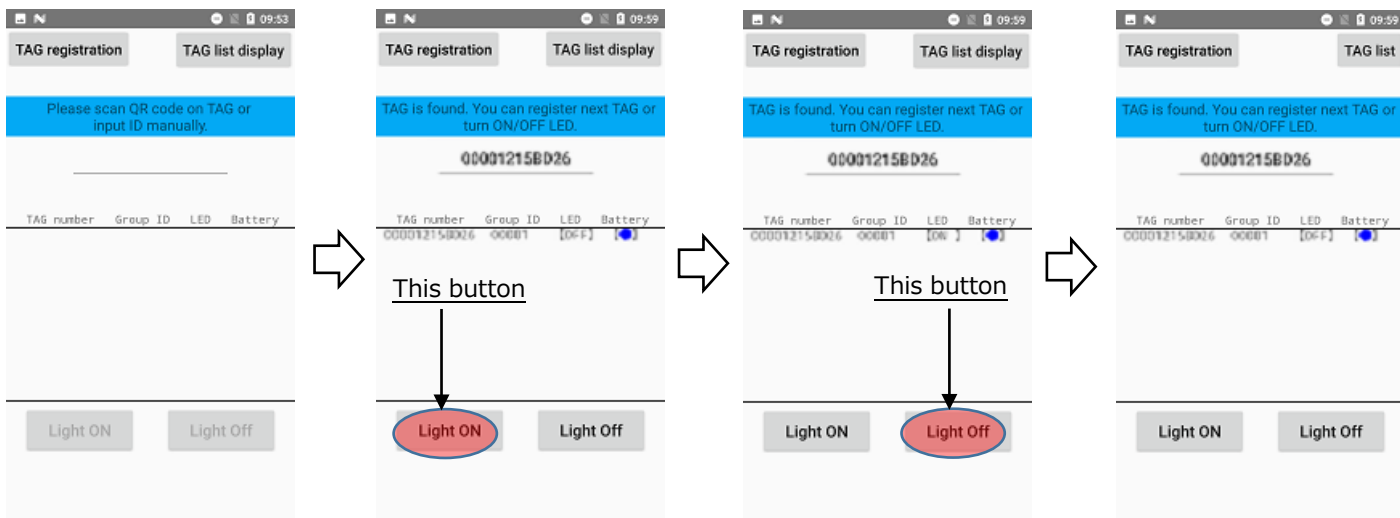


4. "TAG ON/OFF" screen

On the "TAG ON/OFF" screen, the TAG of the chosen TAG number or the TAG belonging to the specified group ID is turned on/off. (The Tags may be several)

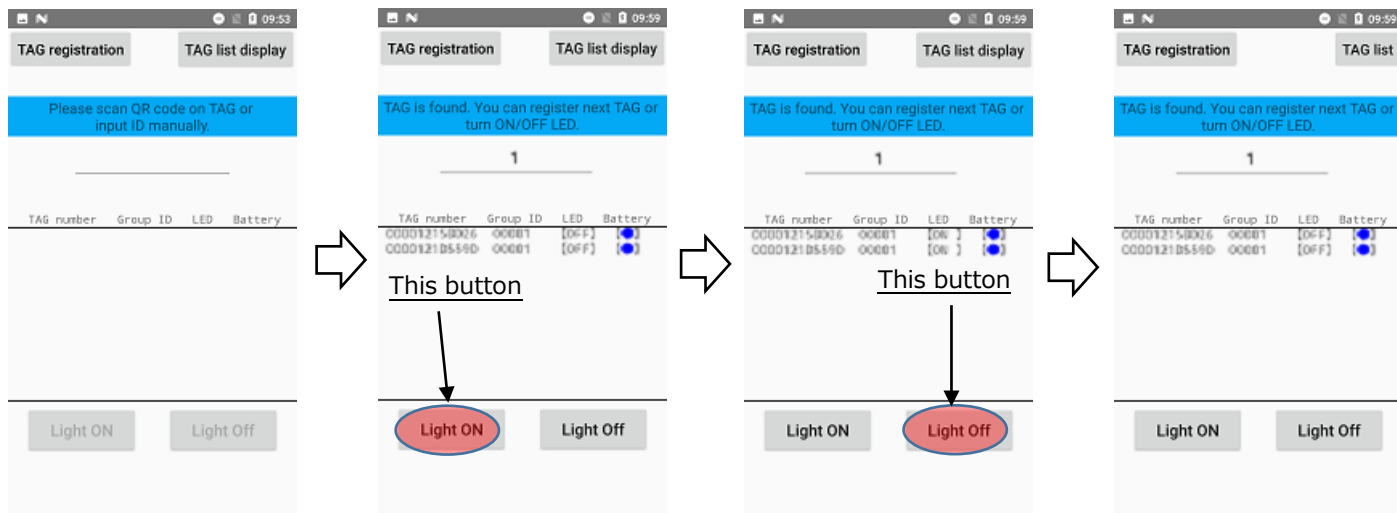
(1) How to turn on/off the TAG by specifying the TAG number

- ① Scan the QR code that has the same TAG number as the TAG you want to turn on/off.
(It does not have to be the QR code attached to the TAG)
⇒ SP1 searches for the specified TAG and displays the TAG status.
- ② To turn on the light, touch the "Light On" button, and to turn off the light, touch the "Light Off" button.



(2) How to turn on/off the TAG by specifying the group ID

- ② Enter the group ID assigned to the TAG you want to turn on/off.
(Enter the QR code containing the group ID or the software keyboard)
⇒ SP1 searches for TAGs that have the specified group ID and displays the status of those TAGs.
- ③ To turn on the light, touch the "Light On" button, and to turn off the light, touch the "Light Off" button.
(If the specified group ID is assigned to multiple TAGs, turn on or off multiple TAGs.)



5. "TAG list display" screen

When move to this screen, the TAG registered in the application is automatically searched (about 15 seconds), and the search result is displayed in the following format.

Also by pressing the button below, the TAG of the search result under the specified condition (AND condition) is displayed.

Button	Status	Display
Search result	TAG found in the search	-
	TAG not found in search	#
	All TAGs	ALL
LED	TAG with LED lit	ON
	TAG with LED off	OFF
	All TAGs	ALL
Battery	TAG with enough battery	
	Battery exhausted TAG	
	All TAGs	ALL

When "All TAGs" is selected, the confirmation of the status is ignored.

(Ex.1)

When you set ⇒ Search result--「-」、LED—「ON」、Battery—「」:

A TAG is found in the search, and the TAG whose status is "LED on" and "Battery low" is displayed. (Ex.2)

When you set ⇒ Search result--「-」、LED—「ALL」、Battery—「」:

The search finds the TAG and displays the "Battery low" TAG.

Click the "Research" button to search again and display the status of all TAGs.

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