

User's Manual

(IoT LTE Gateway/Device Application User Guide)



2017.02.22

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1 LTE GW/DEV Application

1.1 LTE GW/DEV Overview

1.1.1 LTE GW/DEV Menu Tree by Function

1st depth	2nd depth	3rd depth		4th depth
LTE IoT Gateway (MIT- SG100)	Z-Wave	PLUG	Pairing Information	Pairing Unpairing
			ModelInfo	Manufacture ID
				ProductType ID
				Product ID
		Status of Device	Information of Status	
			Information of Status	On
				Off
	WALL SWITCH	Pairing -> Information	Pairing	
			Unpairing	
		ModelInfo	Manufacture ID	
			ProductType ID	
			Product ID	
		Status of Device	Information of Status	
			Change of Status	On
				Off
	GAS LOCK	Pairing Information	Pairing	
			Unpairing	
		ModelInfo	Manufacture ID	
			ProductType ID	
			Product ID	
		Status of Device	Information of Status	
			Change of Status	Close
	DOOR SENSOR	Pairing Information	Pairing	
			Unpairing	
		ModelInfo	Manufacture ID	
			ProductType ID	
			Product ID	
		Status of	Information of Status	

		Device			
		DOOR LOCK	Pairing Information	Pairing Unpairing	
			ModelInfo	Manufacture ID ProductType ID Product ID	
		Status of Device		Information of Status	
				Change of Status	
				Lock Unlock	
		Diagnosis /DM	GATEWAY		
			THINGS		
LTE IoT Device (MIT-SG101)	BLE	Turning of Streetlight			
		Turning on Streetlight and Warning Light			
		Turning off Streetlight and Warning Light			
	-> Streetlight/Warning Light	Control of Streetlight	On		
			Off		
		Control of Warning Light	On		
			Off		
		Control of Streetlight/Warning Light	On		
			Off		
		Control of Whole Streetlights	On		
			Off		
	Diagnosis /DM	Control of Whole Warning Light	On		
			Off		
	Setting	Control of Whole Streetlight/Warning Light	On		
			Off		

1.1.2 2 Install Manual of App

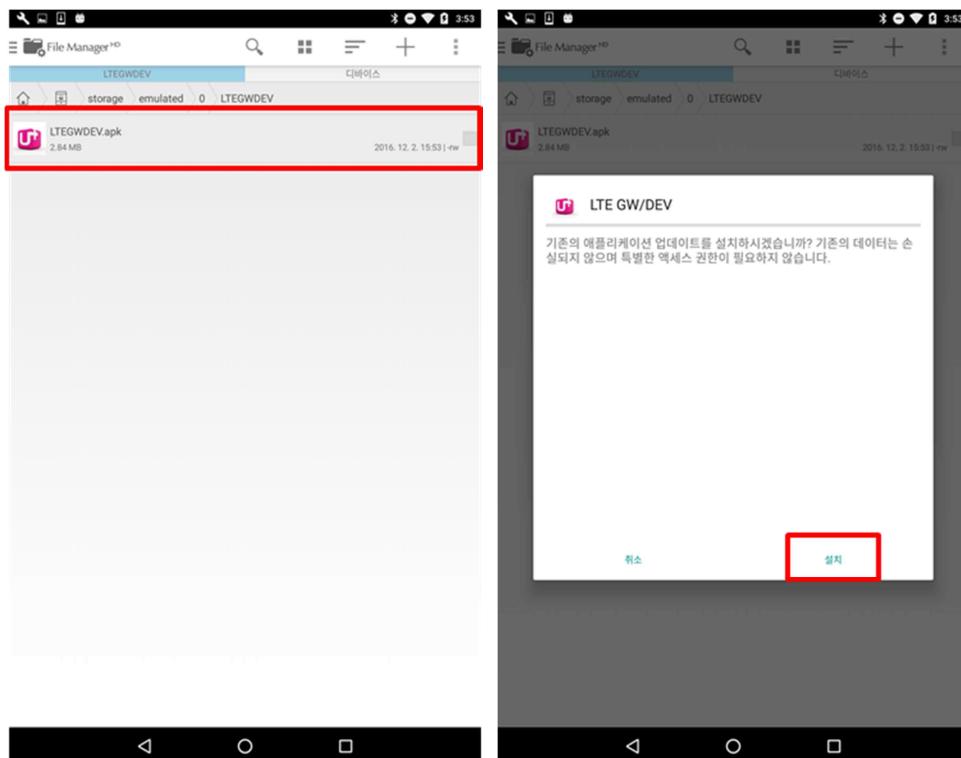
1.1.2.1 Preparation of Installation

- Smart Phone(over version of Android OS 5.0)
- The Smart Phone should be able to access using LTE or WiFi.

- Copy 'LTEGWDEV.apk' file into the 'Download' folder
 - Copy by USB or e-mail download
- Install App. related 'File Browser'
-

1.1.2.2 Installation of App

- Run App. related 'File Browser'
- Move to the location of LTEGWDEV.apk
- Run 'Install' file after choosing LTEGWDEV.apk.



1.1.3 oneM2M Server Connection

When you run the App or send a message to the server, print the result code using 'Toast' at the bottom of the screen.

1.1.3.1 Result Code of oneM2M Sever Connection

- oneM2M Sever Initiallization
 - 1 : Success
 - -1000 : Ae Create Error
 - -1001 : Polling Channel Create Error
 - Ex) Ae Init Result : 1
- Addition of Subscription
 - 1 : Success
 - -1000 : container resource is not exist / MN_AE initialized not yet
 - -1001 : Subscription Create Error
 - Ex) Subscription Add Result : 1
- Resister of Handler
 - 1 : Success
 - -1000 : recv function pointer is null
 - Ex) Resister RecvMessage Result : 1
- Sending a Message
 - 201 : Success
 - -1000 / -1001 : Fail
 - Ex) Message Send Result : 201

1.2 Settings

It supports environment setting for oneM2M Server Connection.

- oneM2M Server IP : OneM2M Server IP (218.153.68.53)
- oneM2M Sever Port : OneM2M Server Port (8080)
- oneM2M Server CSEBase ID : OneM2M Server CSEBase ID (herit-in/herit-cse)

- LTE GW SN ID : Mit-SG100 Gateway ID (BSN displayed on the terminal)
- LTE Device SN ID : Mit-SG101 Device ID (SG101_IOT_AGENT_SG101-1~10)



1.3 LTE IoT Gateway (MIT-SG100)

1.3.1 Z-WAVE

When you enter the Z-Wave screen, the information of the currently paired Z-Wave device is received and displayed on the screen. In Addition, pairing, status checking and control are possible.

1.3.1.1 PLUG

It provides status information related to Z-Wave Plug and can change Plug status(On/Off).

1.3.1.1.1 Pairing

Pair the Z-Wave Plug with MIT-SG100.

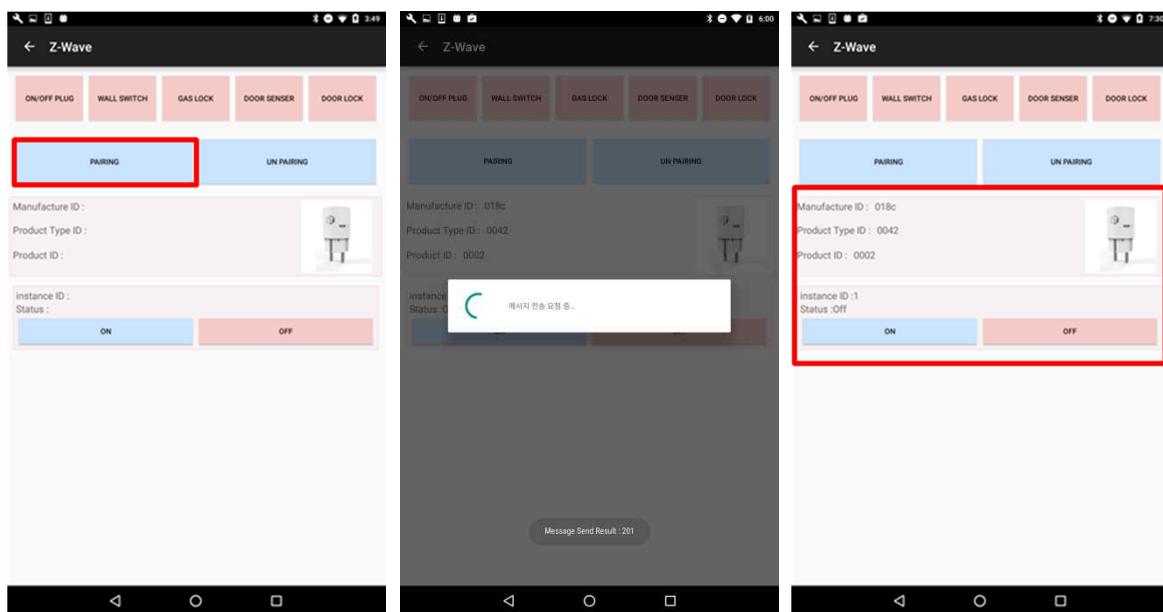
- Click the 'Pairing' button on the 'PLUG' screen.
- When the 'ProgressDialog' is displayed and the 'Pairing' request status is displayed, press the On/Off button of the Z-Wave Plug for more than 5 seconds.
- If the pairing is successful, the ProgressDialog disappears and the device information is displayed on the screen.

- If the Z-Wave device to pair is paired with another Z-Wave controller, perform the 'unpairing' and process the above procedure.

1.3.1.1.2 Unpairing

Unpair the Z-Wave Plug from MIT-SG100.

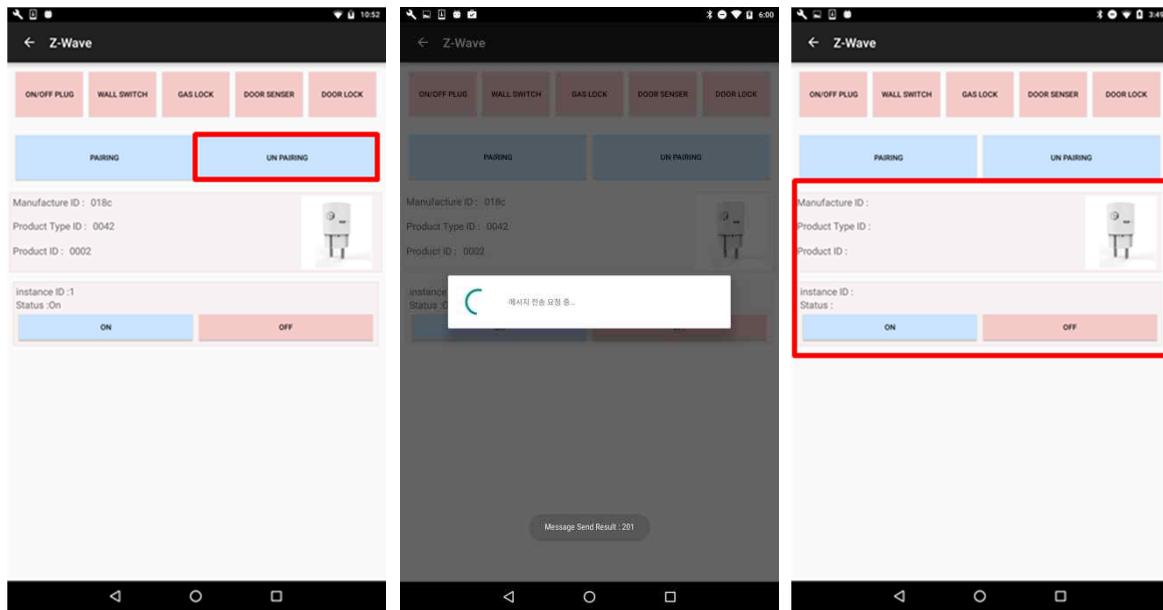
- Click the 'Unpairing' button on the screen.



1.3.1.1.2 Unpairing

Unpair the Z-Wave Plug from MIT-SG100.

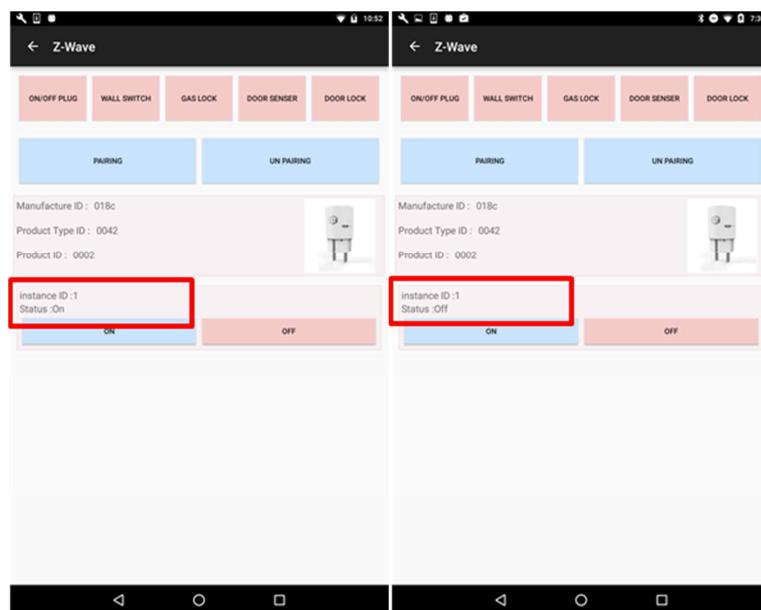
- Click the 'Unpairing' button on the screen.
- When the 'ProgressDialog' is showed up and it is in the Unpairing request status, press the Z-Wave Plug On/Off button for more than 5 seconds.
- If 'Unpairing' is successful, the 'ProgressDialog' is disappeared and the device information is disappeared from the screen.



1.3.1.1.3 Confirmation of the device status

When the switch of the paired Z-Wave Plug is changed to 'manual', the changed status information should be reflected in the application.

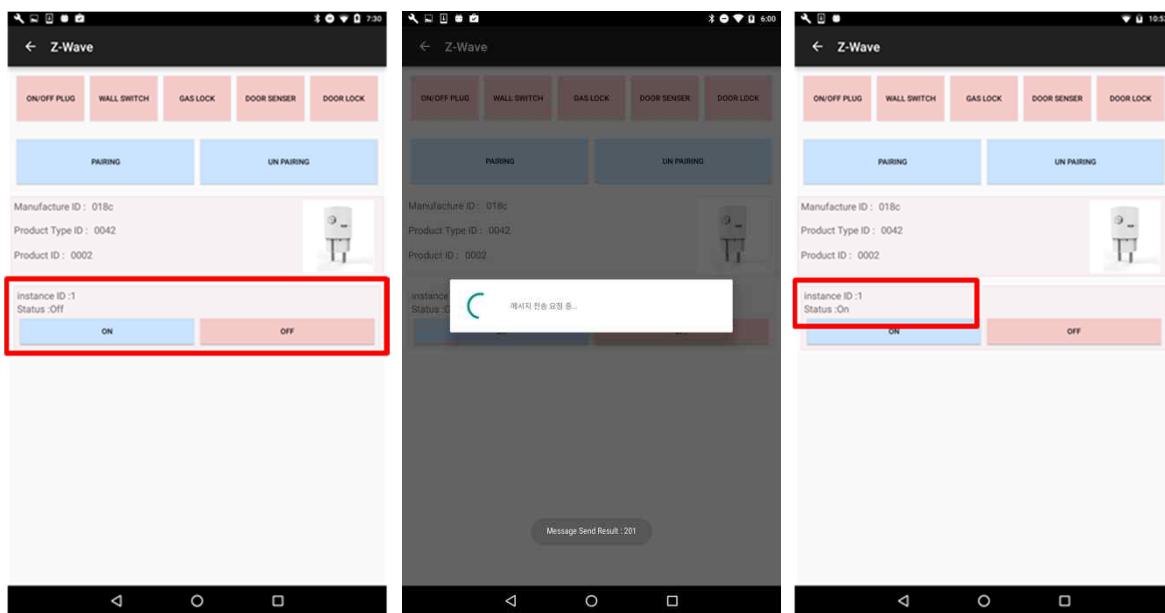
- Check the 'Pairing' status of Z-Wave Plug on the 'PLUG' screen.
- Change the On/Off status of Z-Wave Plug to 'manual' by press H/W button.
- Check if the 'status' is changed in the UI of the application..



1.3.1.1.4 Control of Device

It is possible to the On/Off control of the paired Z-Wave Plug in the application.

- Check the pairing status of Z-Wave Plug in the Plug screen.
- Click the On/Off button you want to change in the current status.
- Check if the status of the Z-Wave Plug has been changed and check whether the changed status is reflected on the UI screen.



1.3.1.2 WALL SWITCH

It provides the Z-Wave Wall Switch related status information and can be changed Wall Switch status(On/Off).

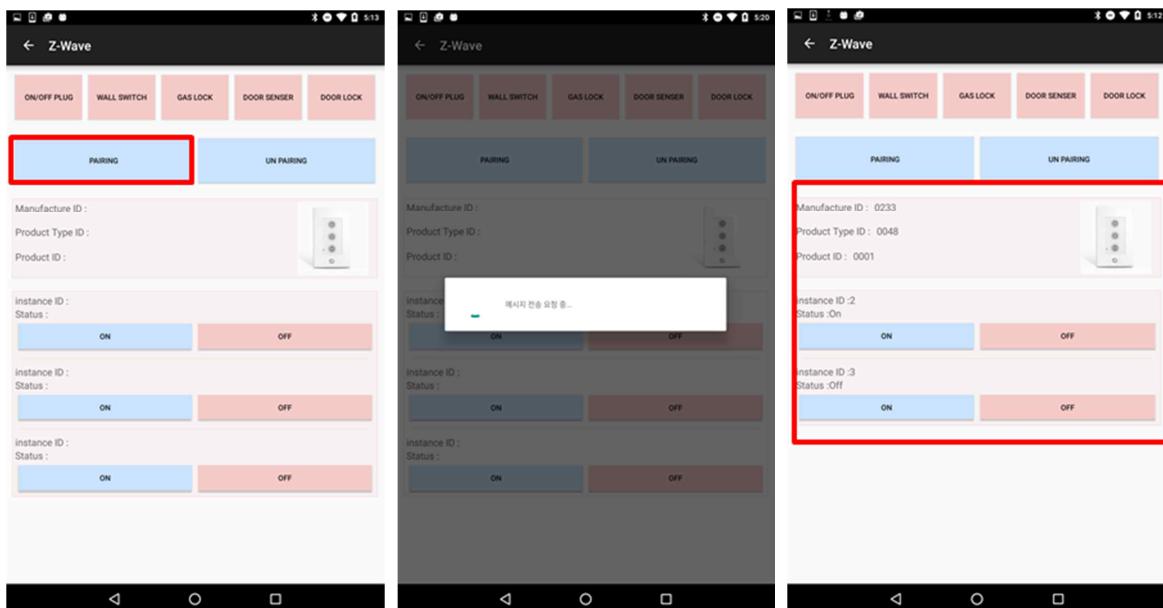
The Z-Wave Wall Switch Device supports 2 or 3 channels.

- Z-Wave Wall Switch (2 Channel)
 - If the Instance ID is 2 : Status display and control for the top button.
 - If the Instance ID is 3 : Status display and control for the top button.
- Z-Wave Wall Switch (3 Channel)
 - If the Instance ID is 2 : Status display and control for the top button.
 - If the Instance ID is 3 : Status display and control for the middle button.
 - If the Instance ID is 4 : Status display and control for the bottom button.

1.3.1.2.1 Pairing

Pair the Z-Wave Wall Switch with MIT-SG100.

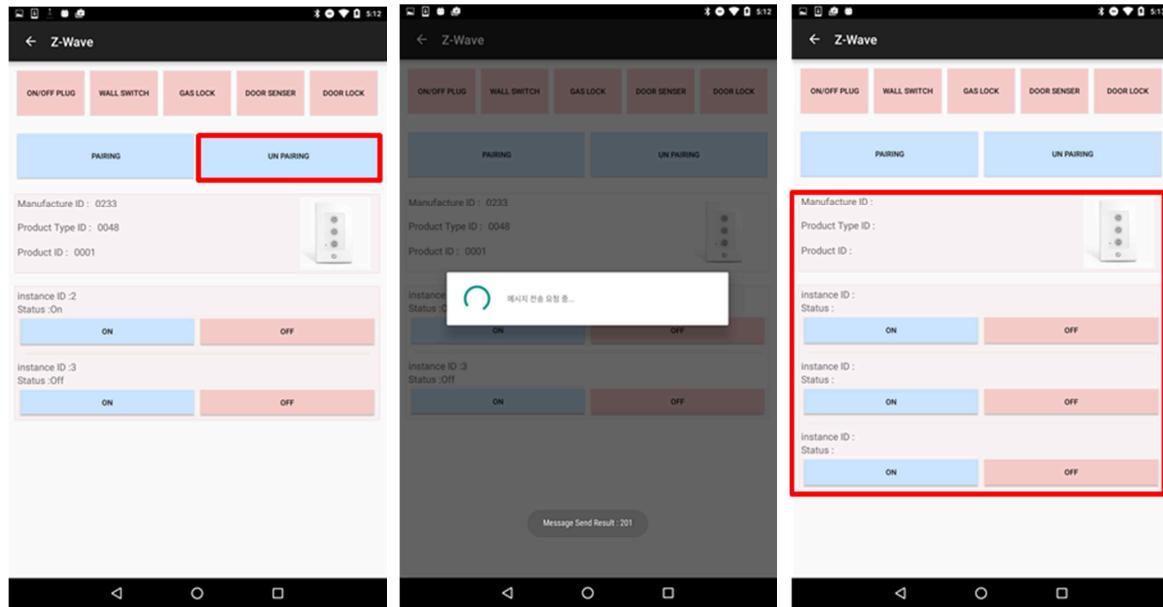
- Click the 'Pairing' button on the 'WALL SWITCH' screen.
- When the 'ProgressDialog' is displayed and it is in the 'Pairing' request status, press the 'Pairing' button of the Z-Wave Wall Switch for more than 5 seconds.
- If the 'Pairing' is successful, the 'ProgressDialog' is disappeared and the Device information is displayed on the screen.
- If the Z-Wave Device to pair is paired with another Z-Wave controller, perform the 'Unpairing' and proceed the above procedure.



1.3.1.2.2 Unpairing

Unpair the Z-Wave Wall Switch from MIT-SG100.

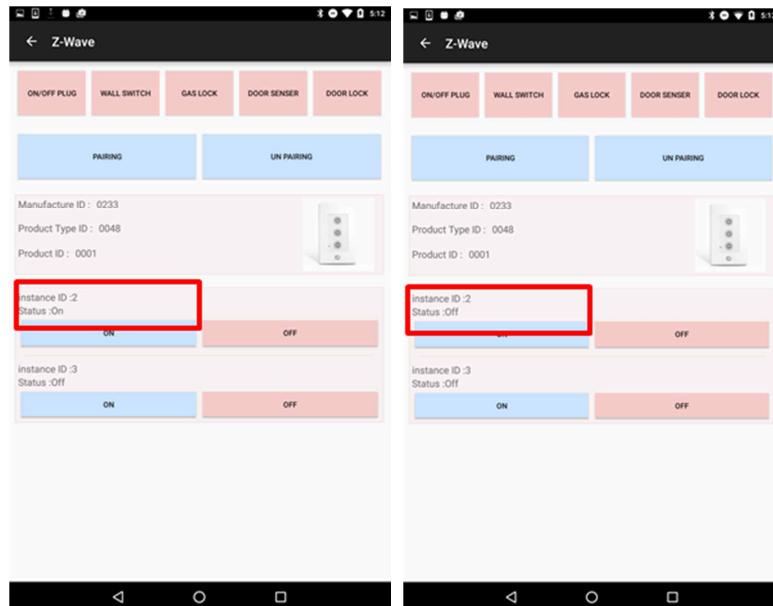
- Click the 'Unpairing' button on the 'WALL SWITCH' screen.
- When the 'ProgressDialog' is showed up and it is in the Unpairing request status, press the 'Pairing' button of Z-Wave Wall Switch for more than 5 seconds.
- If 'Unpairing' is successful, the 'ProgressDialog' is disappeared and the device information is disappeared from the screen.
- .



1.3.1.2.3 Confirmation of the Device Status

When the switch of the paired Z-Wave Wall Switch is changed to 'manual', the changed status information should be reflected in the application.

- Check the 'Pairing' status of the Z-Wave Wall Switch on the WALL SWITCH screen.
- Change the On/Off status of Z-Wave Wall Switch to 'manual' by press H/W button.
- Check if the 'status' is changed in the UI of the application.

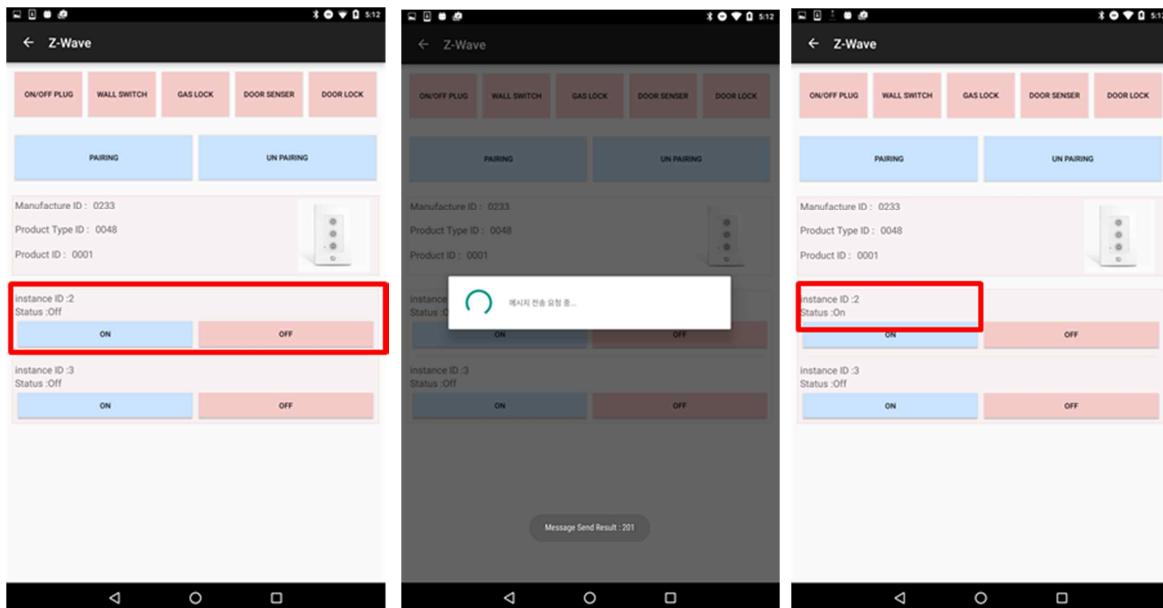


1.3.1.2.4 Control of Device

On/Off control of Paired Z-Wave Wall Switch Device in application is possible.

- Check the Pairing state of the Z-Wave Wall Switch on the WALL SWITCH screen.

- Click on the button you want to change in the current state. (On/Off)
- Check whether the state of the Z-Wave Wall Switch has changed and check whether the state change is reflected on the UI screen.



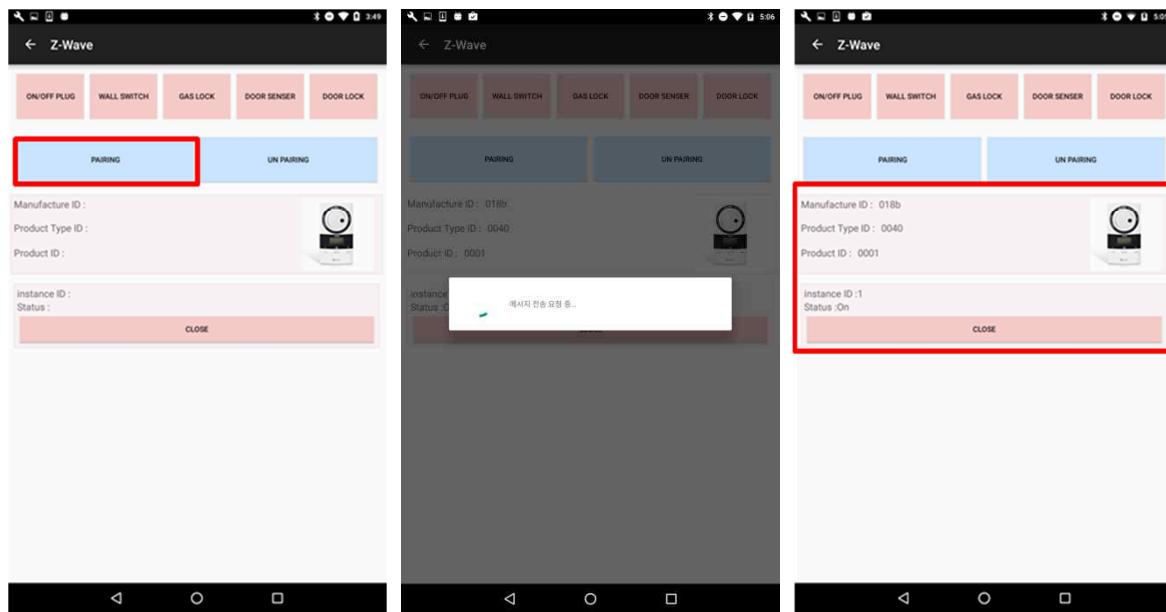
1.3.1.3 GAS LOCK

It provides status information related to Z-Wave Gas Lock and can change the gas lock status.

1.3.1.3.1 Pairing

Pair the Z-Wave Gas Lock with MIT-SG100.

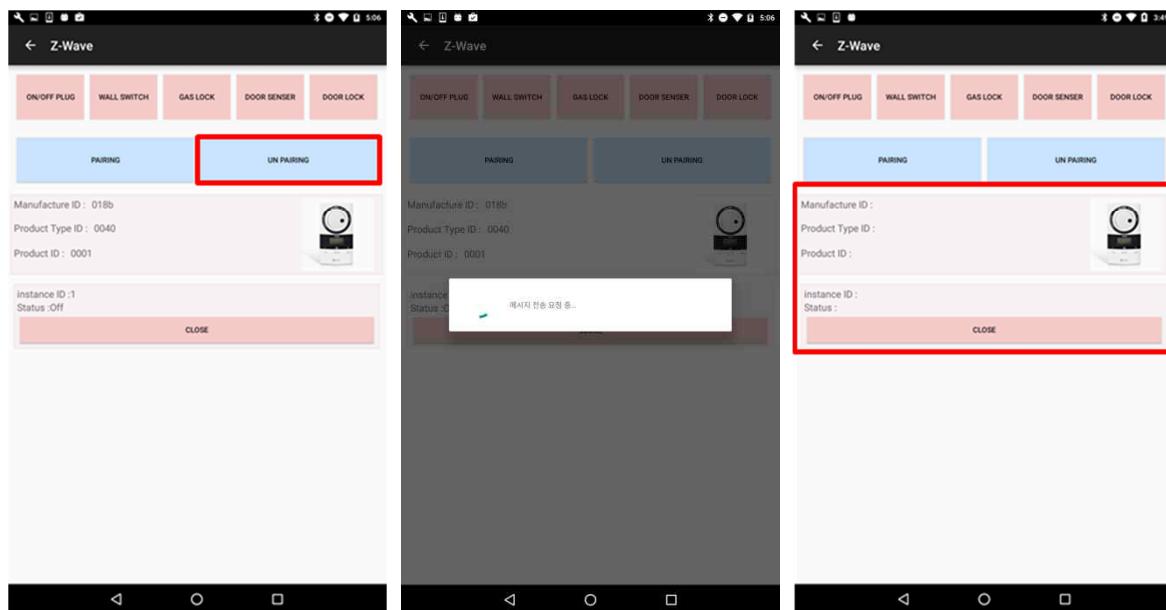
- Click on the 'pairing' button on the GAS LOCK screen.
- When the 'ProgressDialog' is displayed and it is in the 'Pairing' request status, press the 'Down' button for more than 5 seconds while the Z-Wave Gas Lock is 'Closed'.
- If the 'Pairing' is successful, the 'ProgressDialog' is disappeared and the Device information is displayed on the screen.
- If the Z-Wave Device to pair is paired with another Z-Wave controller, perform the 'Unpairing' and proceed the above procedure.
-



1.3.1.3.2 Unpairing

Unpair the Z-Wave Gas Lock from MIT-SG100.

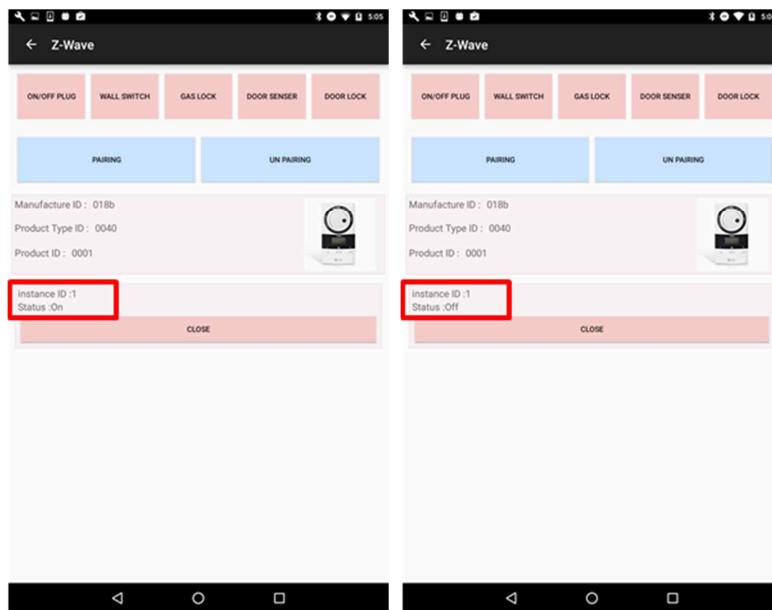
- Click the 'Unpairing' button on the 'Gas Lock' screen.
- When the 'ProgressDialog' is showed up and it is in the Unpairing request status, press the 'Down' button for more than 5 seconds while the Z-Wave Gas Lock is 'Closed'.
- If 'Unpairing' is successful, the 'ProgressDialog' is disappeared and the device information is disappeared from the screen.



1.3.1.3.3 Confirmation of the Device Status

When the switch of the paired Z-Wave Wall Switch is changed in manual, the changed status information should be reflected in the application.

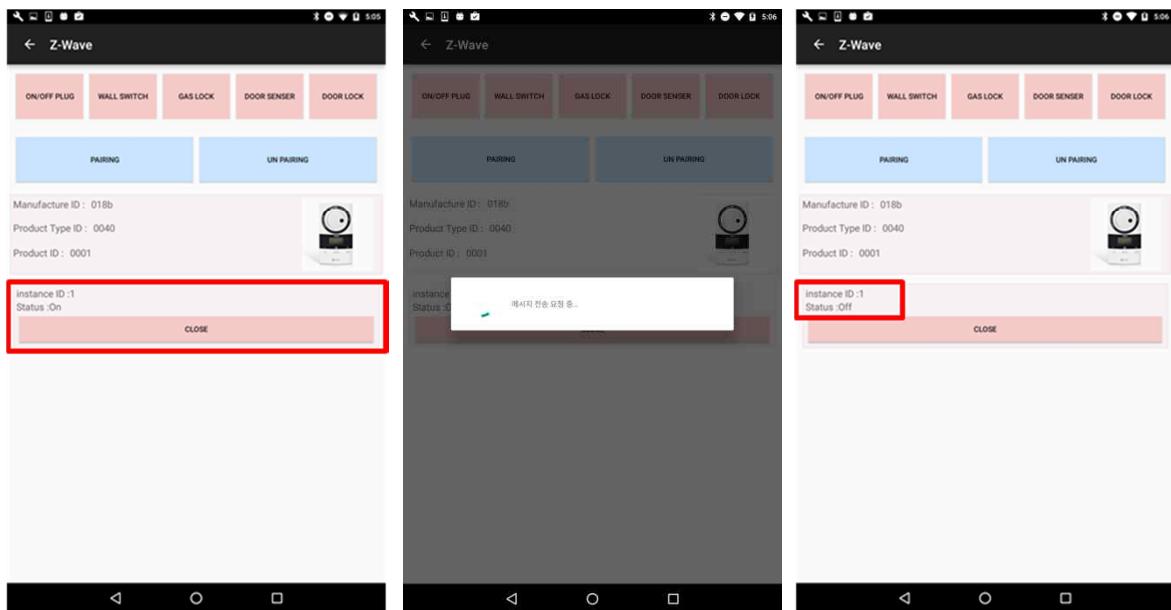
- Check the 'Pairing' status of the Z-Wave Gas Lock on the GAS LOCK screen.
- Change the status of Z-Wave Gas Lock by press H/W button in manual.
 - Check if the 'status' is changed in the UI of the application



1.3.1.3.4 Control of Device

The 'close' control of Paired Z-Wave Gas Lock Device in application is possible.

- Check the 'Pairing' status of the Z-Wave gas lock on the GAS LOCK screen.
- Click on the 'close' button in 'open' status. (In the Z -Wave Gas Lock Device, 'Open' can be only controlled manually, and 'Close' can be controlled in App and manually.)
- Check whether the state of the Z-Wave Wall Switch has changed and check whether the state change is reflected on the UI screen.



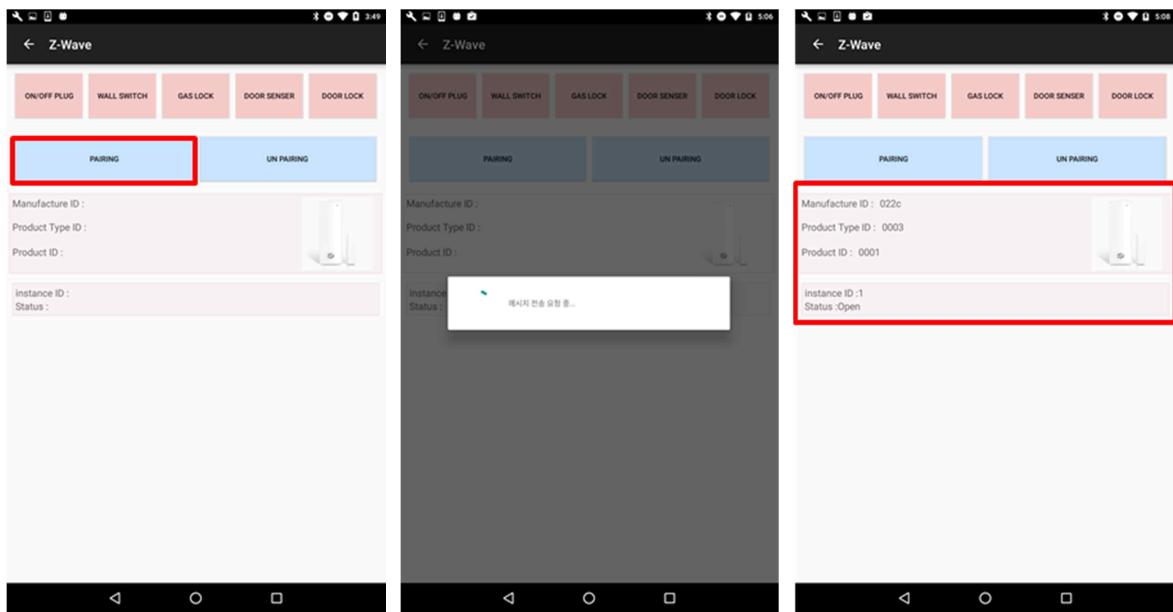
1.3.1.4 DOOR SENSOR

It provides status information related to Z-Wave Door Sensor.

1.3.1.4.1 Pairing

Pair the Z-Wave Door Sensor with MIT-SG100.

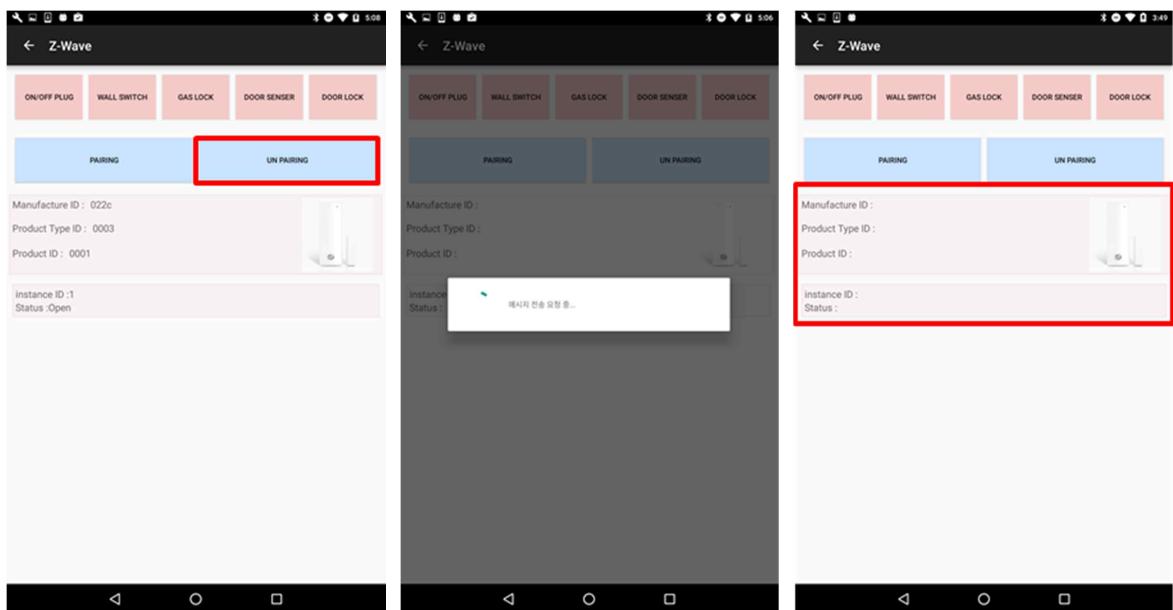
- Click on the 'pairing' button on the 'DOOR SENSOR' screen.
- When the 'ProgressDialog' is displayed and it is in the 'Pairing' request status, press the 'Pairing' button of Z-Wave Door Sensor for more than 5 seconds.
- If the 'Pairing' is successful, the 'ProgressDialog' is disappeared and the Device information is displayed on the screen.
- If the Z-Wave Device to pair is paired with another Z-Wave controller, perform the 'Unpairing' and proceed the above procedure.
- .



1.3.1.4.2 Unpairing

Unpair the Z-Wave Door Sensor from MIT-SG100.

- Click the 'Unpairing' button on the 'DOOR SENSOR' screen.
- When the 'ProgressDialog' is showed up and it is in the Unpairing request status, press the 'Pairing' button of Z-Wave Door Sensor for more than 5 seconds.
- If 'Unpairing' is successful, the 'ProgressDialog' is disappeared and the device information is disappeared from the screen.

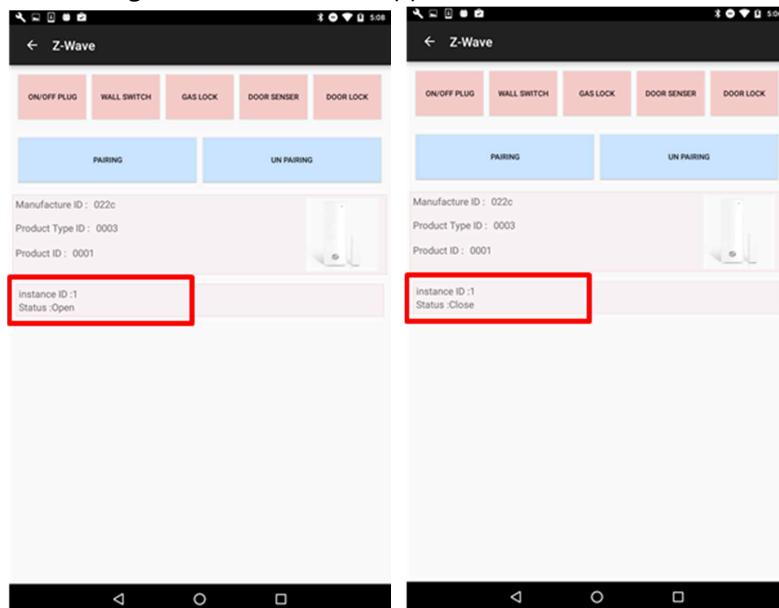


1.3.1.4.3 Confirmation of the Device Status

When the status of the paired Z-Wave Door Sensor is changed in manual, the changed status information should be reflected in the application.

- Check the 'Pairing' status of the Z-Wave Door Sensor on the 'DOOR SENSOR' screen.
- Change the 'Open/Close' status of Z-Wave Door Sensor manually.

Check if the 'status' is changed in the UI of the application



1.3.1.5 DOOR LOCK

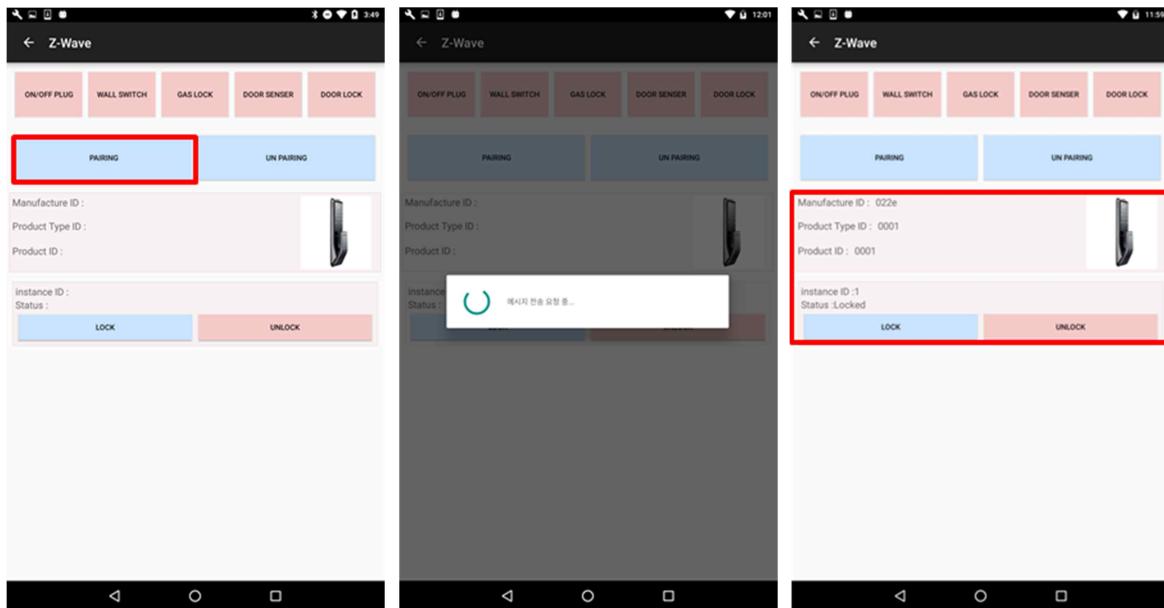
It provides status information related to Z-Wave Door Lock and can change the Door lock status (Lock/Unlock)..

1.3.1.5.1 Pairing

Pair the Z-Wave Door Lock with MIT-SG100..

- Click on the 'pairing' button on the 'DOOR LOCK' screen.
- When the 'ProgressDialog' is displayed and it is in the 'Pairing' request status, press the 'REG' button of Z-Wave Door Lock for more than 3 seconds and double click '0' button (twice of '0') on the touch board and click '*' button subsequently.
- If the 'Pairing' is successful, the 'ProgressDialog' is disappeared and the Device information is displayed on the screen.
- If the Z-Wave Device to pair is paired with another Z-Wave controller, perform the

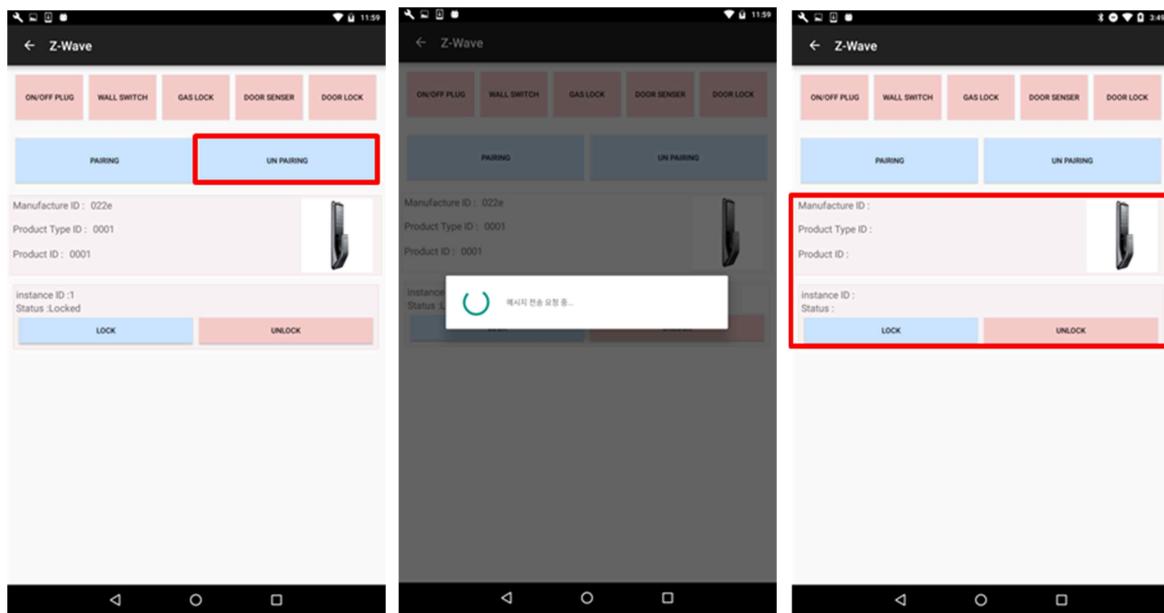
'Unpairing' and proceed the above procedure.



1.3.1.5.2 Unpairing

Unpair the Z-Wave Door Lock from MIT-SG100.

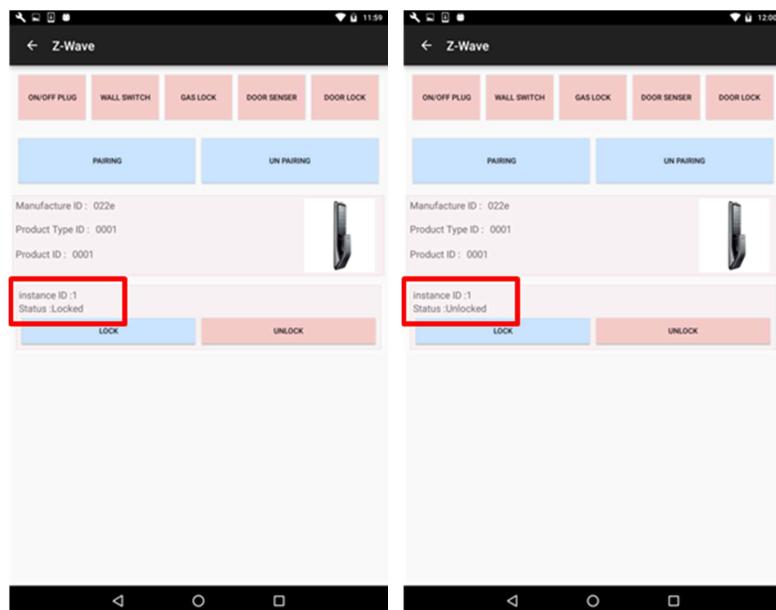
- Click the 'Unpairing' button on the 'DOOR LOCK' screen.
- When the 'ProgressDialog' is showed up and it is in the Unpairing request status, press the 'REG' button of Z-Wave Door Lock for more than 3 seconds and double click '0' button (twice of '0') on the touch board and click '*' button subsequently.
- If 'Unpairing' is successful, the 'ProgressDialog' is disappeared and the device information is disappeared from the screen.



1.3.1.5.3 Confirmation of the Device Status

When the switch of the paired Z-Wave Door Lock is changed in manual, the changed status information should be reflected in the application.

- Check the 'Pairing' status of the Z-Wave Door Lock on the DOOR LOCK screen.
- Change the Lock/Unlock status of Z-Wave Door Lock in manual.
- Check if the 'status' is changed in the UI of the application.

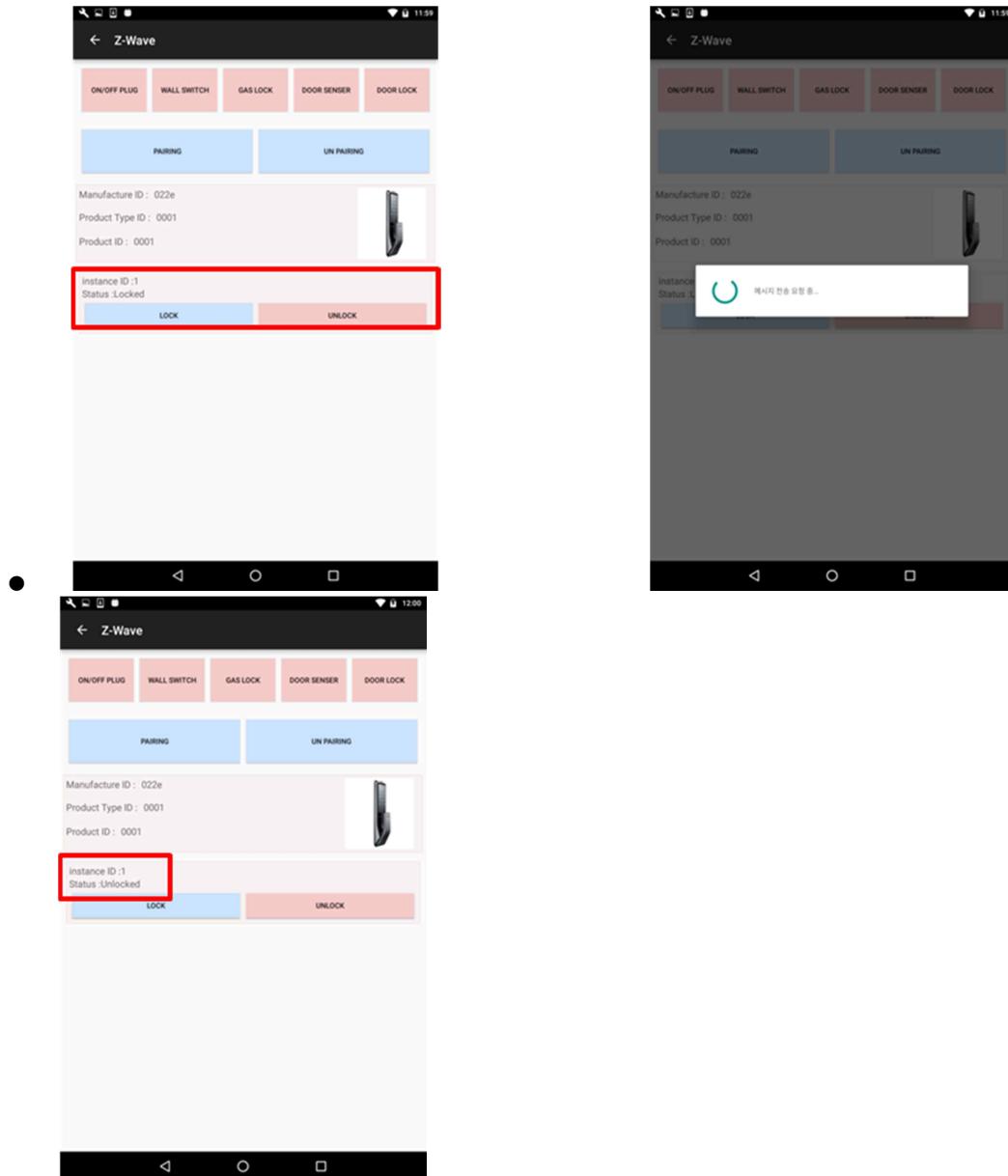


1.3.1.5.4 Control of Device

The Lock/Unlock control of Paired Z-Wave Door Lock Device in application is possible.

- Check the 'Pairing' status of the Z-Wave Door Lock on the DOOR LOCK screen.

- Click on the button you want to change in the current state. (Lock / Unlock)
- Check whether the state of the Z-Wave Door Lock has changed and check whether the state change is reflected on the UI screen.



1.3.2 Diagnosis/DM

1.3.2.1 GATEWAY

It receives diagnosis/DM information of connected MIT-SG100 Gateway and displays it on the screen.

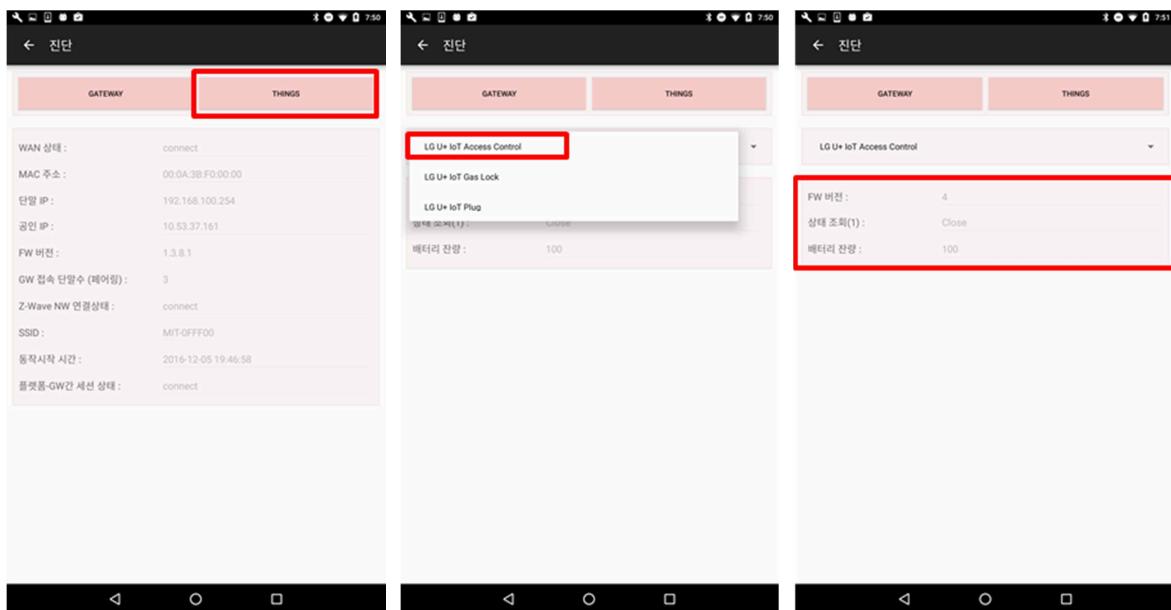
- The ProgressDialog will automatically appear and request diagnosis/DM information via oneM2M server.
- If the request and response are successful, the ProgressDialog disappears and the following information is displayed on the screen.
 - WAN status
 - MAC address
 - Device IP
 - Authorized IP
 - FW version
 - Number of GW connection terminals (pairing)
 - Z-Wave NW connection status
 - SSID
 - Start time of activation
 - Platform-to-Gateway session status



1.3.2.2 THINGS

It receives diagnosis/DM information of the selected Z-Wave device and displays it on the screen..

- Select Z-Wave Device from the list at the top of the screen.
- Supported Z-Wave Device
 - LG U+ IoT Plug
 - LG U+ IoT Access Control (Door Sensor)
 - LG U+ IoT Wall Switch (two channel)
 - LG U+ IoT Wall Switch (three channel)
 - Samsung Door Lock
- The following information is displayed on the screen.
 - FW version
 - The signal strength
 - Status inquiry (In case of WALL SWITCH, four status are displayed for each button.)
 - Battery level



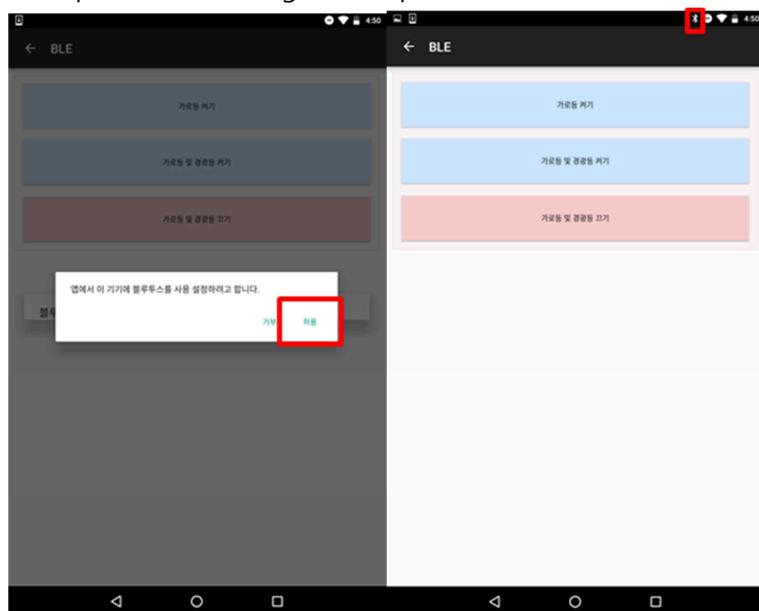
1.4 LTE IoT Device (MIT-SG101)

1.4.1 BLE

The streetlight and warning light are controlled via the BLE signal without going through the oneM2M server. The Bluetooth permission must be enabled.

1.4.1.1 Enabling of Bluetooth Permission

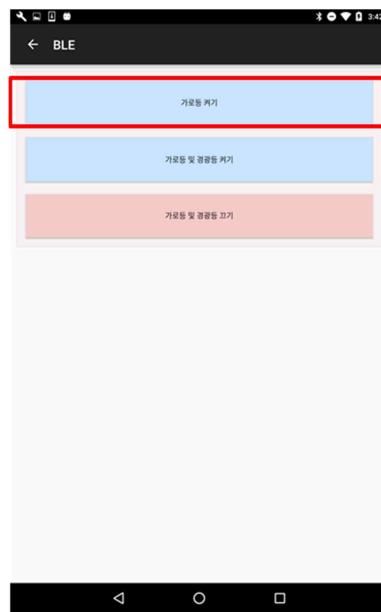
If the Bluetooth permission is turned off when you enter the BLE screen, the permission setting screen appears. On the permission setting screen, press the 'allow' button



1.4.1.2 Turning on Streetlight

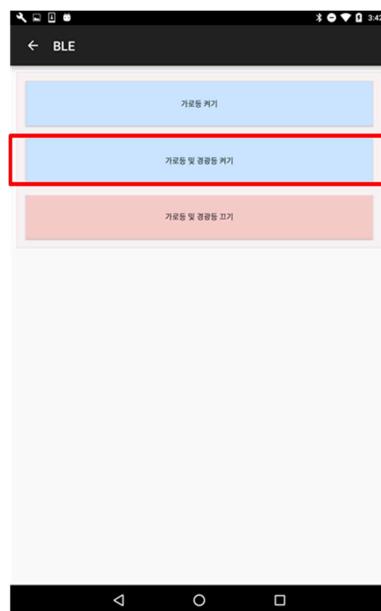
If you press the button of 'Streetlight On', it generates a BLE signal.

The streetlight receiving the BLE signal is turned on



1.4.1.3 Turning on Streetlight and Warning Light

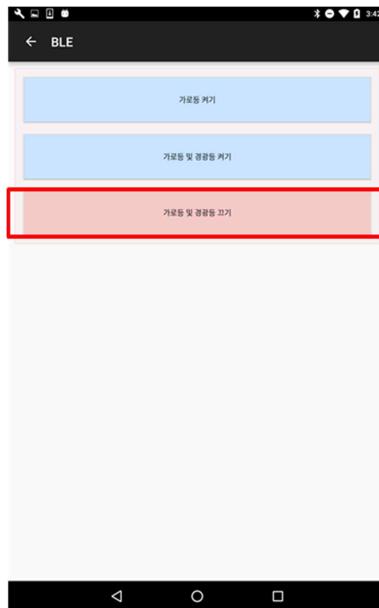
If you press the button of 'Streetlight and Warning Light On', it generates the corresponding BLE signal. The Streetlight and Warning Light receiving the BLE signal is turned on.



1.4.1.4 Turning off Streetlight and Warning Light

If you press the button of 'Streetlight and Warning Light Off', it generates the corresponding BLE signal.

The Streetlight and Warning Light receiving the BLE signal is turned off.

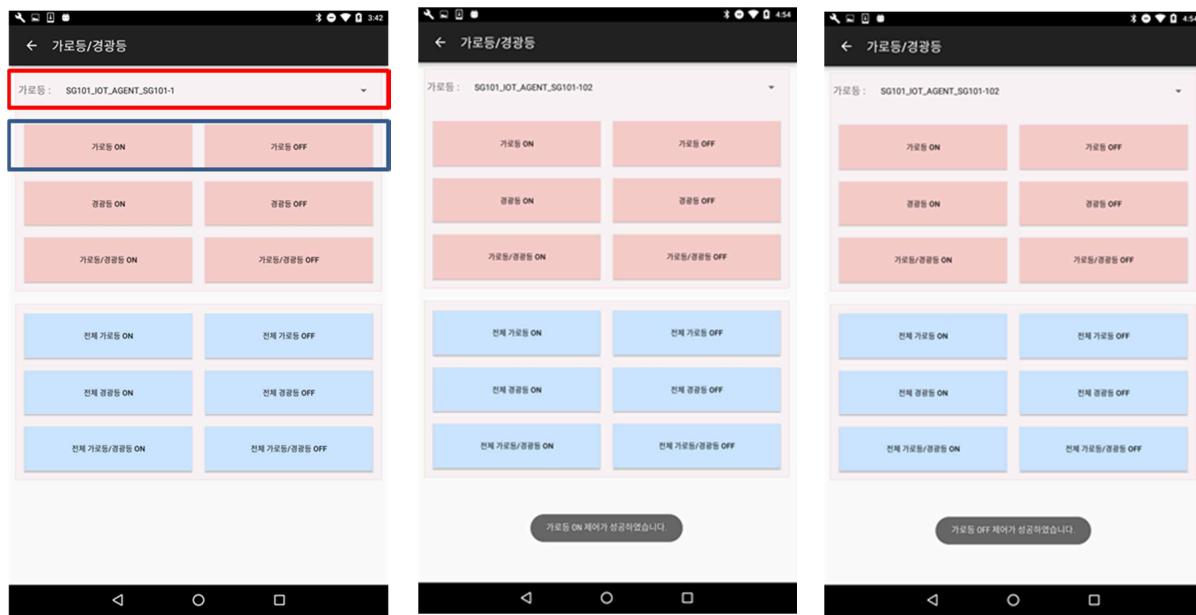


1.4.2 Streetlight/Warning light

1.4.2.1 Control of Streetlight

It controls the On/Off status of the selected Streetlight.

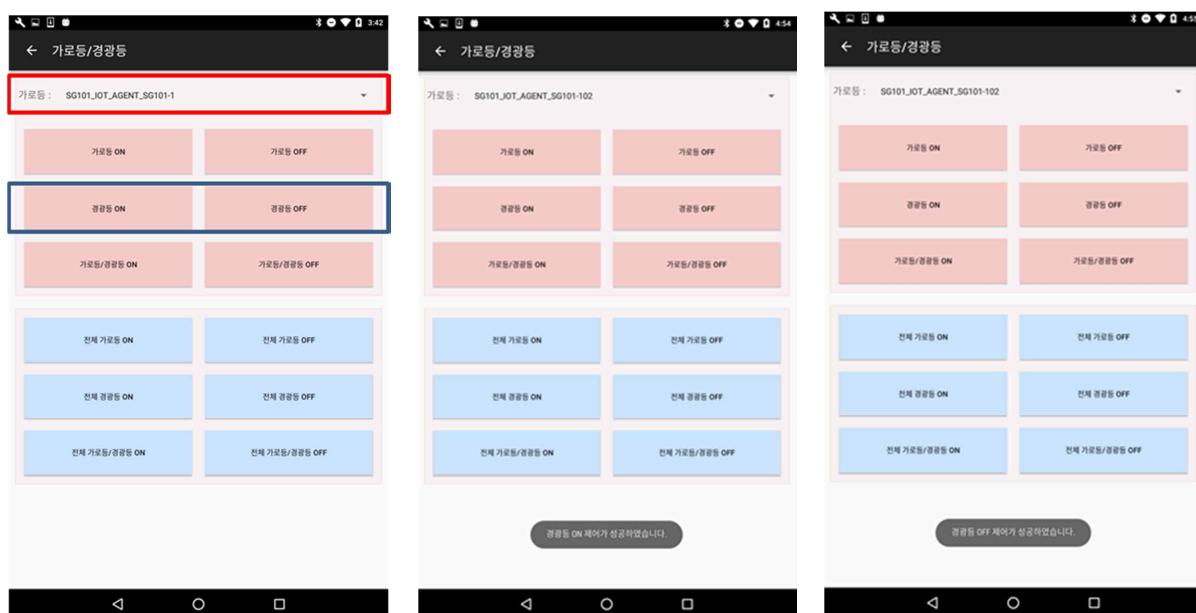
- Select the Streetlight at the top of the screen.
- Press the button of Streetlight On/Off.
- Controls the streetlight connected to the device.
- If the Streetlight control is successful, the ProgressDialog is disappeared.



1.4.2.2 Control of Warning Light

It controls the On/Off status of the selected Warning Light.

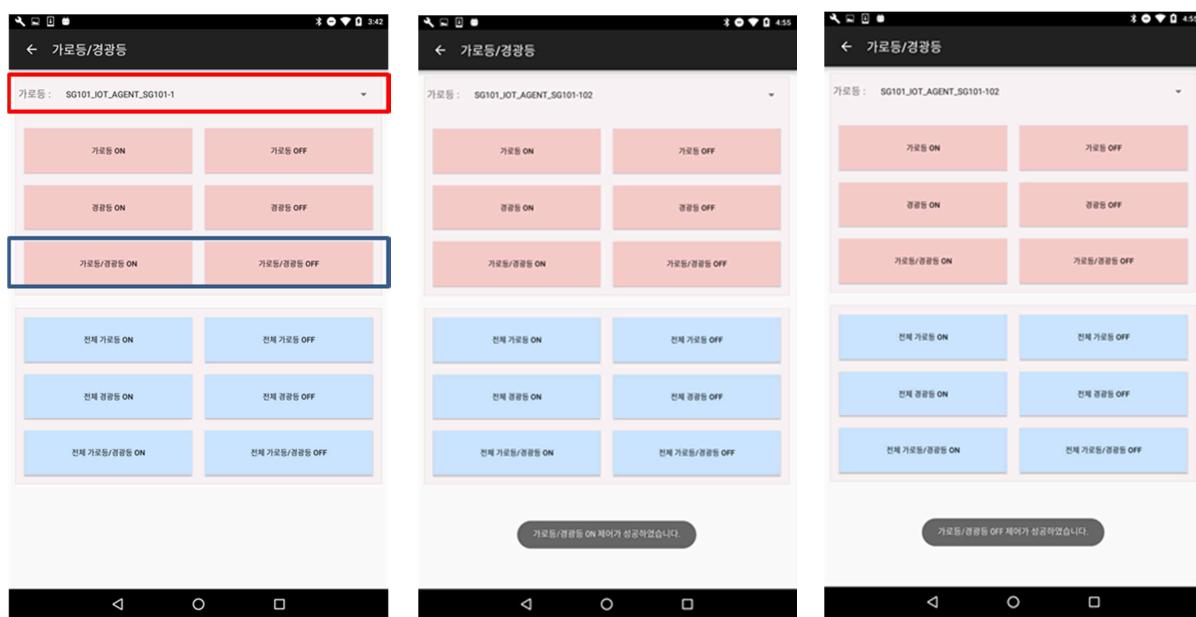
- Select the Streetlight at the top of the screen.
- Press the button of Warning Light On/Off.
- Controls the Warning Light connected to the device.
- If the Warning Light control is successful, the ProgressDialog is disappeared..



1.4.2.3 Control of Streetlight/Warning Light

It controls the On/Off status of the selected Streetlight and Warning Light.

- Select the Streetlight and Warning Light at the top of the screen.
- Press the button of Warning Light On/Off.
- Controls the Warning Light connected to the device.
- If the Warning Light control is successful, the ProgressDialog is disappeared.

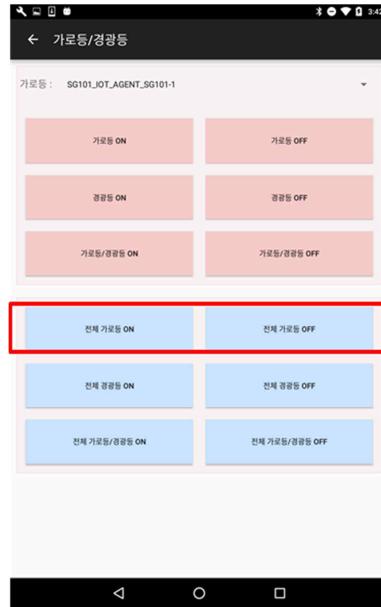


1.4.2.4 Control of Whole Streetlights

It controls the On/Off status of whole Streetlights connected to all devices stored in the set value.

- Press the button of whole Streetlight On/Off.

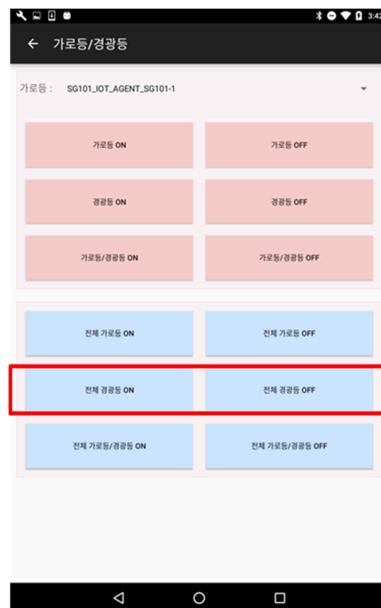
It controls the streetlight connected to all devices stored in the configuration



1.4.2.5 Control of Whole Warning Light

It controls the On/Off status of whole Warning Lights connected to all devices stored in the set value.

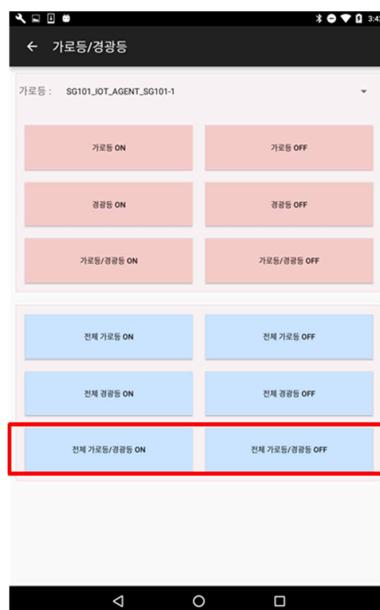
- Press the button of whole Warning Light On/Off.
- It controls the Warning Light connected to all devices stored in the configuration.



1.4.2.6 Control of Whole Streetlight/Warning Light

It controls the On/Off status of whole Streetlight and Warning Lights connected to all devices stored in the set value.

- Press the button of whole Warning Light On/Off.
- It controls the Streetlight and Warning Light connected to all devices stored in the configuration..

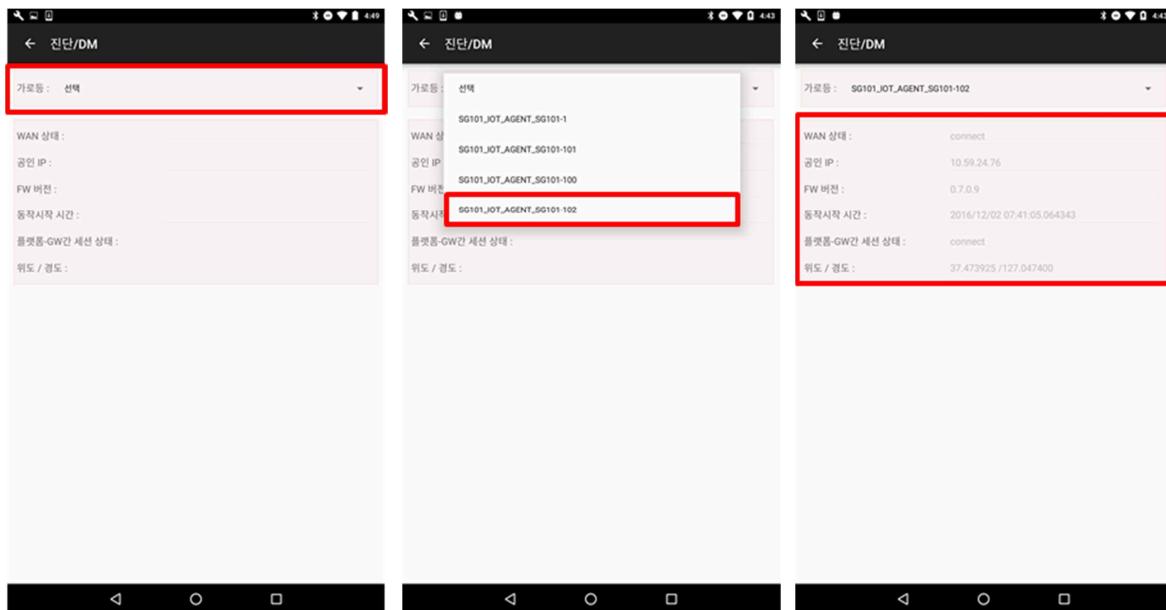


1.4.3 Diagnosis/DM

It receives diagnosis/DM information of the selected device and displays it on the screen.

- Select 'Device' from the list at the top.
- 'ProgressDialog' appears and requests diagnosis/DM information through oneM2M server.
- If the request and response are successful, the 'ProgressDialog' disappears and the following information is displayed on the screen.
 - WAN status
 - Authorized IP
 - FW version

- Start time of activation
- Platform-to-Gateway session status
- Latitude/Longitude

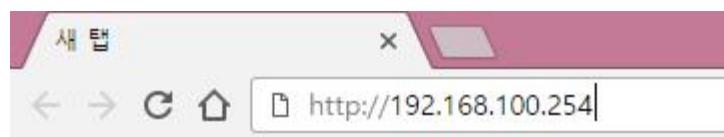


2 WebCM (Wifi)

2.1 WebCM Overview

2.1.1 WebCM Connection

The setting change or detailed function setting of MIT-SG100 can be performed by accessing web server. The web configuration page can be accessed through the web server. Run your web browser and enter the server ip (192.168.100.254) of the LTE IoT Gateway (MIT-SG100) in the address window. Before accessing the web setting page, a screen asking for ID and password is displayed first for security.



When the user authentication window appears, enter your user name and password and click the 'OK' button.

User password can be changed through system management page.

username	admin
password	SSID initial password

A screenshot of a user authentication dialog box. The title is "인증 필요". The text inside says: "http://192.168.100.254에 사용자 이름과 비밀번호를 입력해야 합니다." and "이 사이트에 대한 연결은 비공개가 아닙니다.". There are two input fields: "사용자 이름:" and "비밀번호:". At the bottom are two buttons: "로그인" and "취소".

2.2 Wireless Setting

2.2.1 Wireless settings

- You can set the information of mode selection, network mode, network name (SSID), maximum number of users, SSID broadcast, guard interval, frequency (channel), transmission power saving mode and TxPower Setup
- Network mode
 - 2.4 GHz
 - 11b/g/n Mixed (default)
 - 11g mode
 - 11b mode
 - 5GHz
 - 11a/n mode
- Maximum number of users: 1~10 (default : 10)
- Frequency(channel)

2.4GHz	5GHz
<ul style="list-style-type: none"> - Auto selection (default) - 2412 MHz (channel 1) - 2417 MHz (channel 2) - 2422 MHz (channel 3) - 2427 MHz channel 4) - 2432 MHz (channel 5) - 2437 MHz (channel 6) - 2442 MHz (channel 7) - 2447 MHz (channel 8) - 2452 MHz (channel 9) - 2457 MHz(channel 10) - 2462 MHz(channel 11) - 2467 MHz(channel 12) - 2472 MHz(channel 13) 	<ul style="list-style-type: none"> - Auto selection (default) - 5180 MHz(channel 36) - 5200 MHz(channel 40) - 5220 MHz(channel 44) - 5240 MHz(channel 48) - 5260 MHz(channel 52) - 5280 MHz(channel 56) - 5300 MHz(channel 60) - 5320 MHz(channel 64) - 5500MHz(channel 100) - 5520MHz(channel 104) - 5540MHz(channel 108) - 5560MHz(channel 112) - 5580MHz(channel 116) - 5600MHz(channel 120) - 5745MHz(channel 149) - 5620MHz(channel 124) - 5765MHz(channel 153) - 5785MHz(channel 157) - 5805MHz(channel 161)



2.2.2 Security Setting

You can set the security mode, WPA algorithm and network authentication key by selecting SSID

- Security mode
 - none
 - WPA-PSK
 - WPA2-PSK
 - WPAPSKWPA2PSK (default)
 - WPA1
 - WPA2
 - WPA1WPA2
 - WPA algorithmAES
 - TKIPAES (default)
 - TKIP



- Radius server information can be set when the security mode is WPA1 / WPA2 / WPA1WPA2Radius
 - Radius server configuration information
 - IP 주소
 - Port
 - Shared authentication key



2.2.3 WPS Setting

You can set WPS (enable / disable), WPS PIN (enable / disable), display WPS summary information, and reset WPS..

- WPS Summary Information
 - WPS Current Status
 - WPS SSID
 - WPS Authentication mode
 - WPS Encryption type
 - WPS key

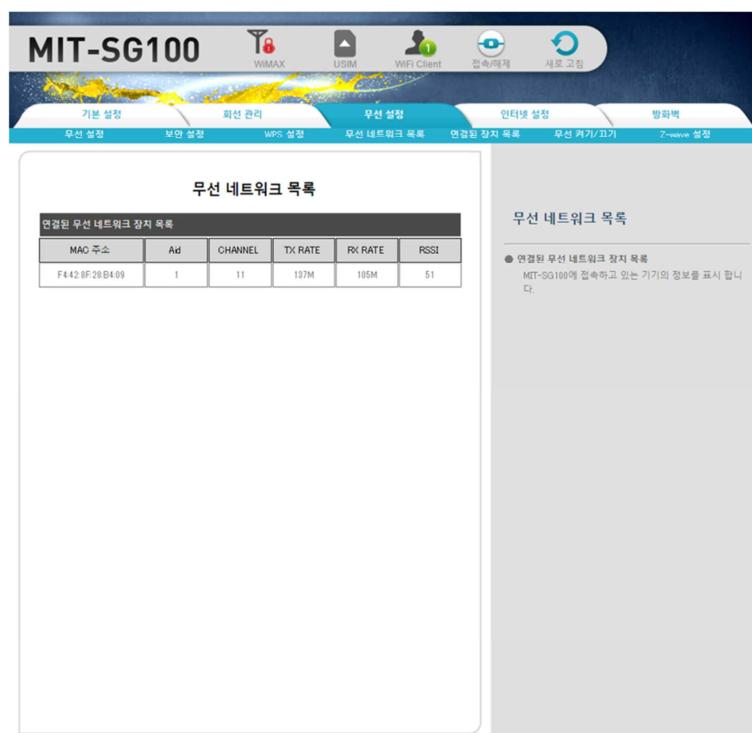


If you enable and apply the WPS PIN, enter the WPS PIN information.



2.2.4 List of wireless networks

- Displays the information of the devices connected to the LTE IoT Gateway (MIT-SG100).
 - Connected wireless network device information
 - MAC address
 - Aid
 - Channel
 - Tx Rate
 - Rx Rate
 - RSSI



2.2.5 Wireless on / off

Individual SSID can be set to Enable / Disable.

When you connect WebCM with Wifi, connection may be terminated by using this function.



2.3 LG U+ Test-only pages

2.3.1 LG U+ Test-only pages

System Command and AP Scan List Test page URL.

[① 192.168.100.254/usr/kr/adm/set_command.asp](http://192.168.100.254/usr/kr/adm/set_command.asp)

You can configure the LTE IoT Gateway (MIT-SG100) function by entering System Command.
LTE IoT Gateway (MIT-SG100) You can save the results of the AP Scan List around the PC as a file..

