



VISION SNP-C19033 Z-Wave Mini Gateway User Manual

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Introduction

Thanks for choosing Mini Gateway. The product is designed primarily as a Z-Wave Gateway / Controller to work with other Z-Wave enabled devices.

This product can be operated in any Z-Wave network with other certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. It is suggested to place the product near your home Internet router. Before installing, please check that you have an available Wi-Fi and power socket in the desired location.

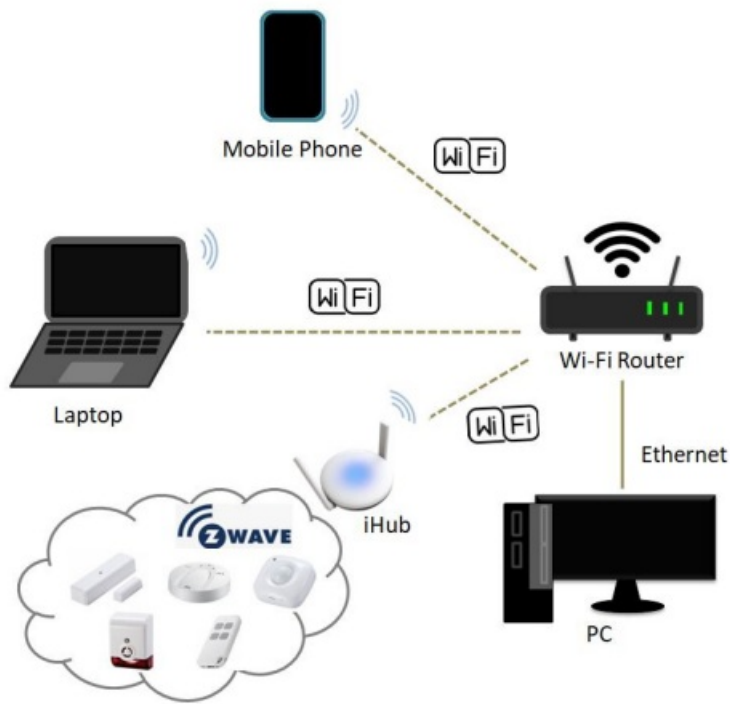


Figure 1: Network Diagram

Figure 2: Mini Gateway Hardware Overview

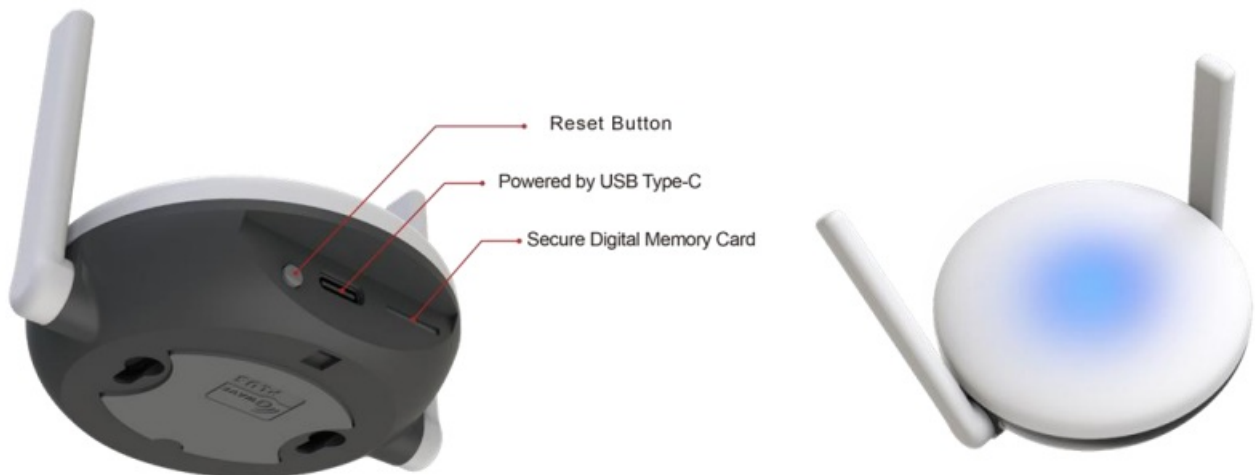


Table 1: Status of LED

Color	Status
Flashes green and blue	System is ready and the network is connected.
Flashes green and blue	Extranet is unable to connect
Flashes blue	System is ready.
Flashes green	Extranet is connected.
Flashes red 2 times	System is restored to default WIFI setting
Flashes red 5 times and then flashes yellow.	System is restored to factory default setting.

Quick Install

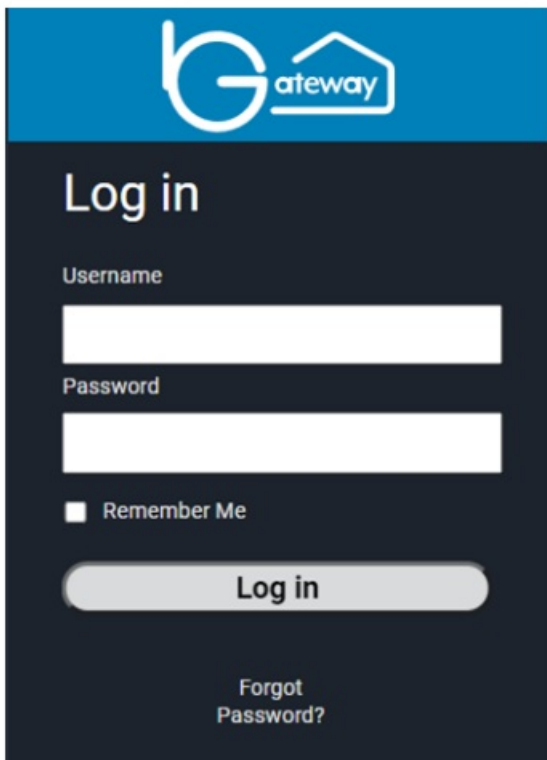
Before installing your Z-Wave network Mini Gateway please follow these steps to install your Mini Gateway:

Step 1: Plug in USB Type-C power to Mini Gateway.

Step 2: Connect the Mini Gateway Wi-Fi “Vision Sensor Hub _XXXXXX” via your laptop or mobile phone, the Wi-Fi password is 12345678.

Step 3: Visit <https://VisionSensorhub/index.html> or <https://192.168.109.1/index.html> in your browser (Google Chrome/ Microsoft Edge).

Step 4: Log in the website of Mini Gateway, the default username is root and password is **1234**.



Setting Mini Gateway network configuration

If logging in the website successfully, please follow the steps to set up Wi-Fi for Mini Gateway.

Step 1: Select “Network Configuration” page.

Step 2: Choose “Enable” in SSID setting.

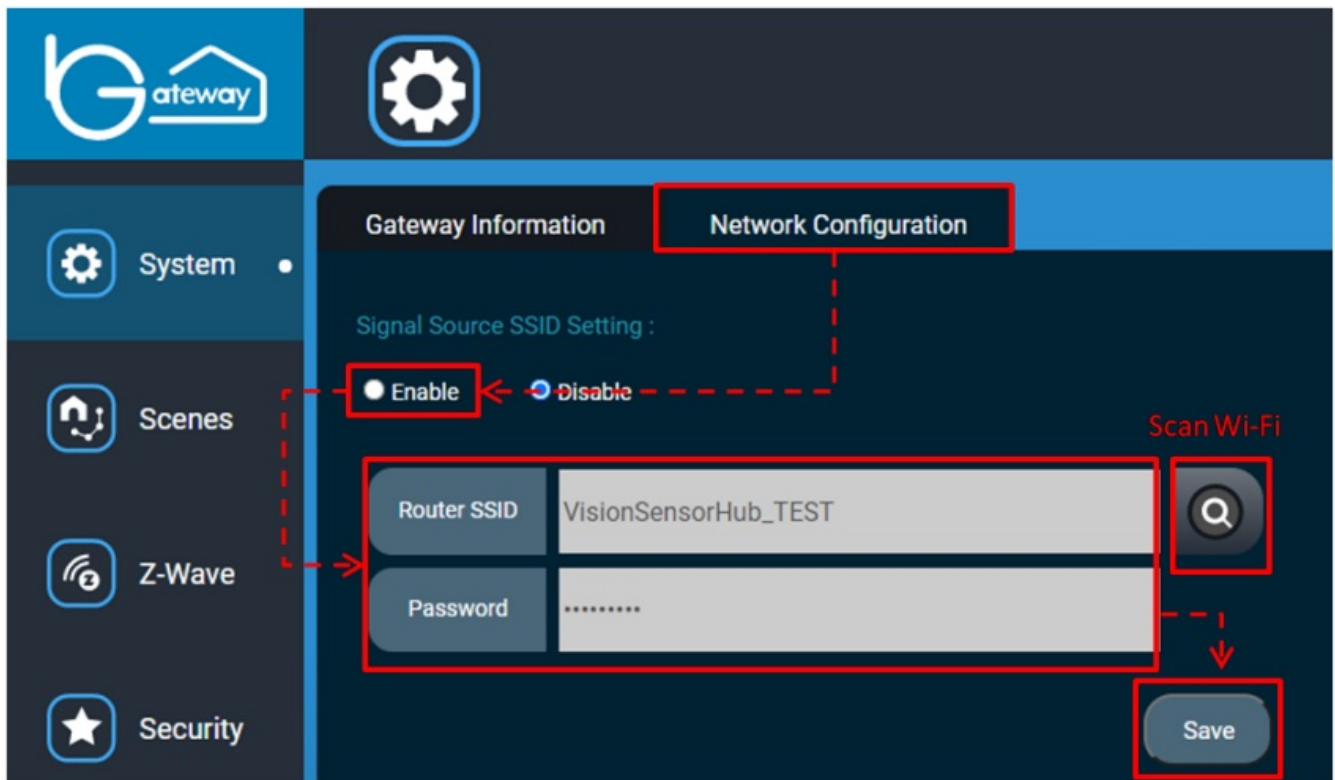
Step 3: Use  to scan available owned Wi-Fi SSID and then key-in password to connect network.

Step 4: Confirm router information if correct and then click “Save” button. The system will be restarted, please wait a moment.

Step 5: If the network is connected successfully, the light of Mini Gateway will be blue and green.

Step 6: If the network is failed to connect, the light will be blue, please presses the reset button 6~10 seconds up to restore default configurations of Wi-Fi.

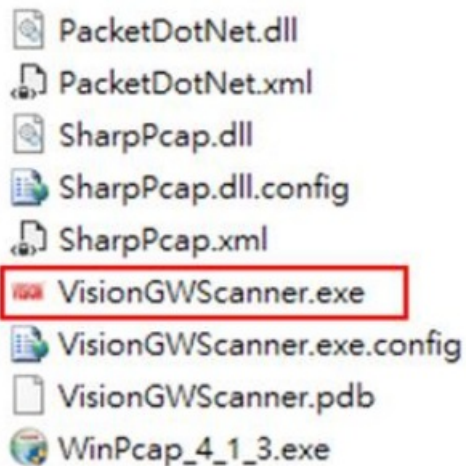
Figure 3: Setting Mini Gateway network steps



IP address of Mini Gateway detection

Please download GWScanner from <http://www.visionsecurity.com.tw>.

Step 1: Please launch the GWScanner.exe in Windows environment of your computer..



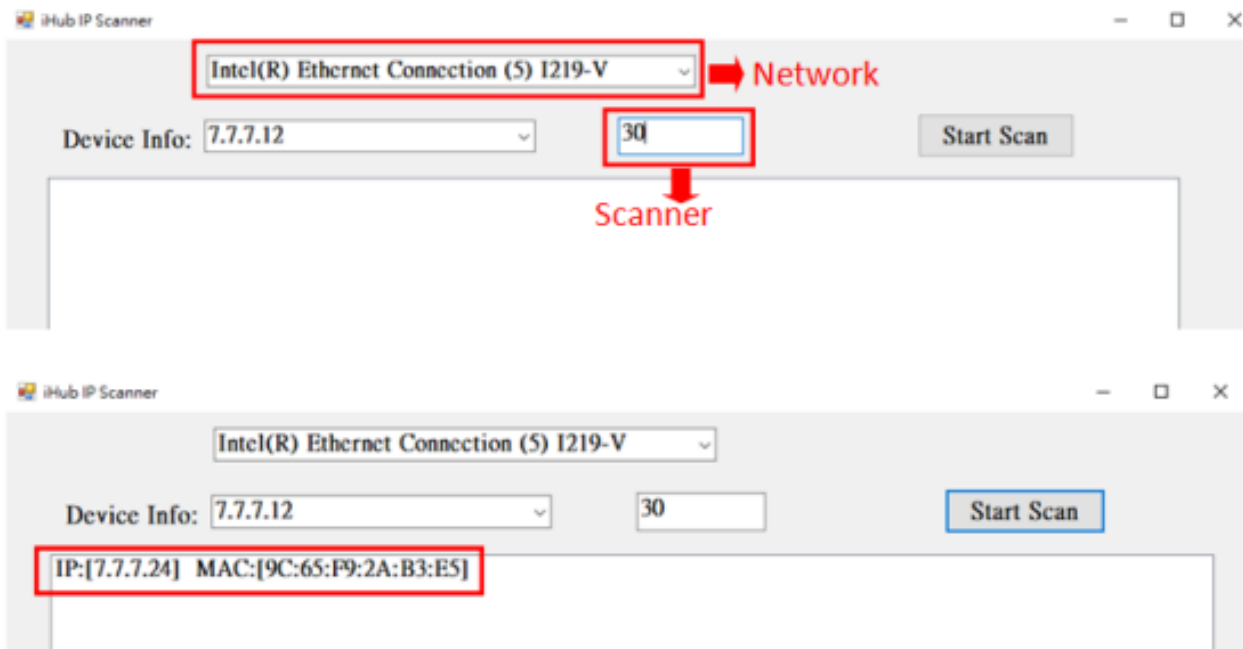
Step 2: Select your network interface.

Step 3: Select your device information and enter scanner range value.

Step 4: Click “**Start Scan**” button to detect the IP address of Mini Gateway.

Step 5: Visit the website of detected IP of Mini Gateway in your browser.

SNP-C19033 Z-Wave Mini Gateway



Website Introduction

The website has four main menus “System”, “Scenes”, “Z-Wave” and “Security”.

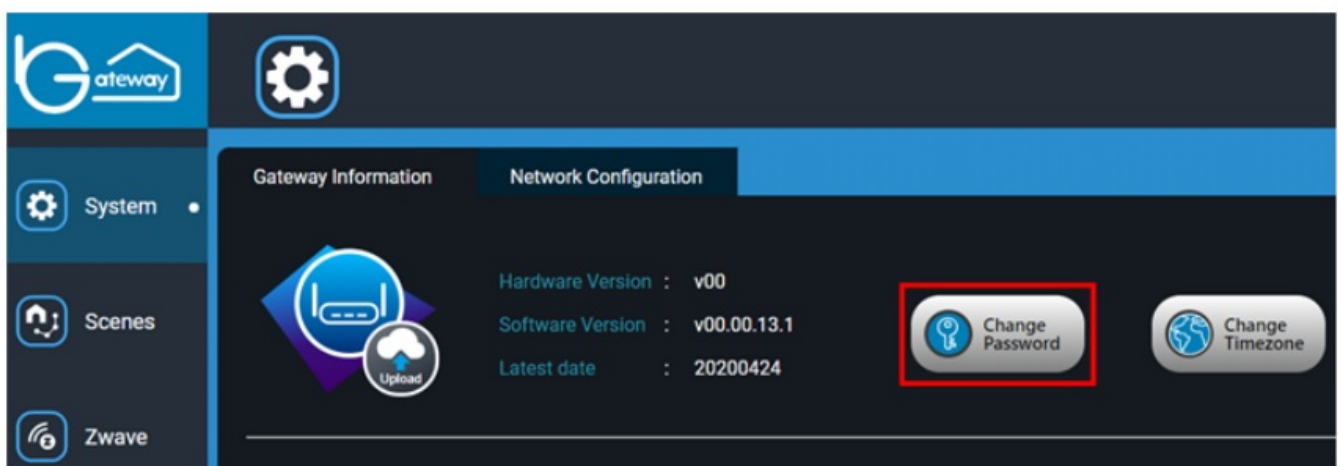
- **“System”**: displaying version of Mini Gateway, network information, time zone setting, and password change.
- **“Scenes”**: Users can customize the linkage between different devices.
- **“Z-Wave”**: displaying Z-Wave devices. User can control all devices.
- **“Security”**: Provides home security configuration.

System Functions

You can upgrade firmware, change password, change time zone and setting network.

Change Password

Step 1: Click the icon “Change Password”.



Step 2: Enter the current password in the first line.

Step 3: Enter the new password in the second line.

Step 4: Enter the new password again in the third line.

Step 5: Click “Change” button to save setting.

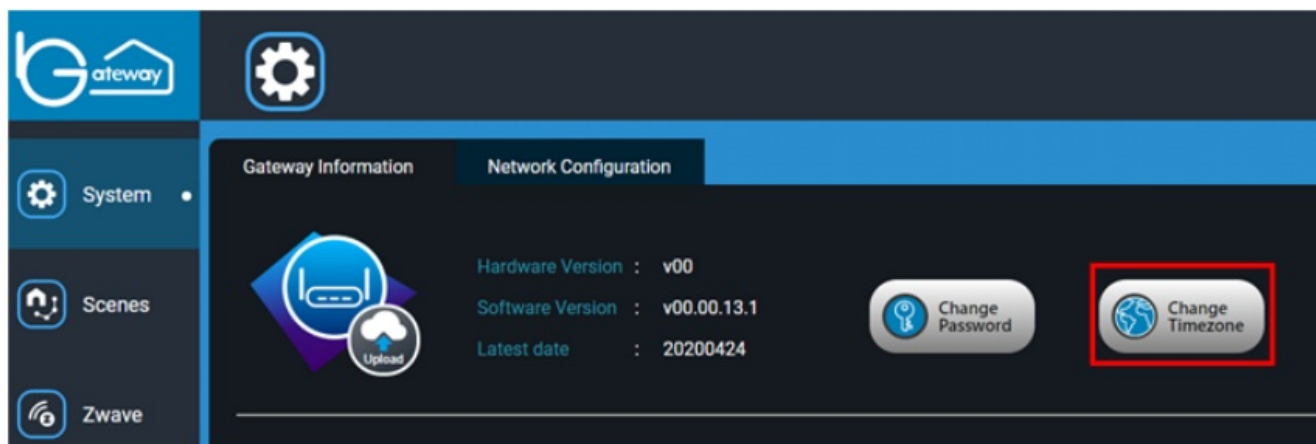
Step 6: If setting up successful, and then website will log out automatically.



A blue dialog box titled "Change Password" with a gear icon and a close button (X). It contains three input fields: "Current Password", "New Password", and "Confirm Password". Each field has a red box around it and a red eye icon to its right. Below the fields, a message states: "Your password must be at least 4 and not more than 20 characters long with numbers or letters." At the bottom is a "Change" button.

Change Time zone

Step 1: Click “Change Time zone” button.



Step 2: Select your time zone.

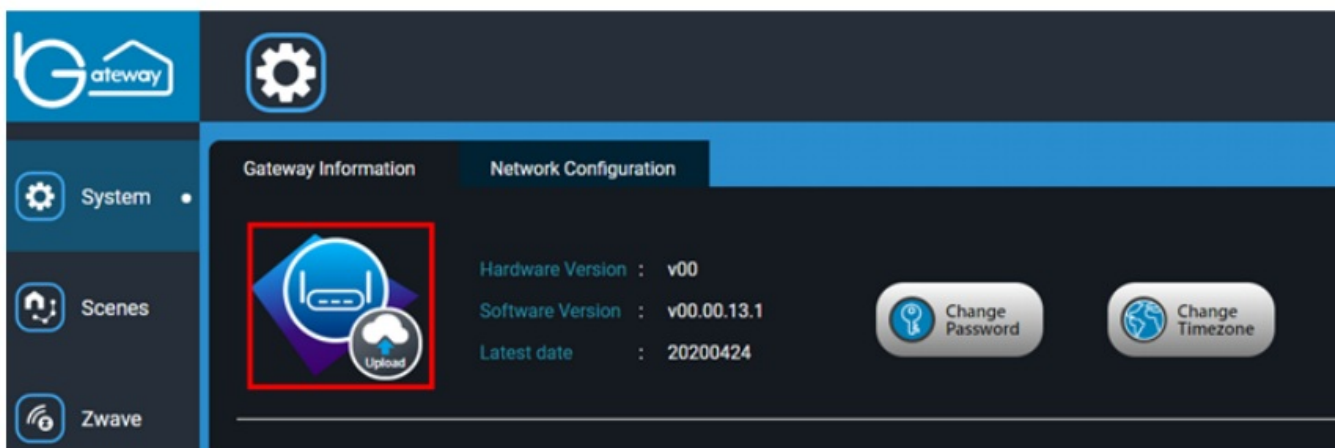
Step 3: Input the Network Time Protocol (NTP) Server if you want to calibrate the system time from network.

Step 4: Click “Change” button for save setting.



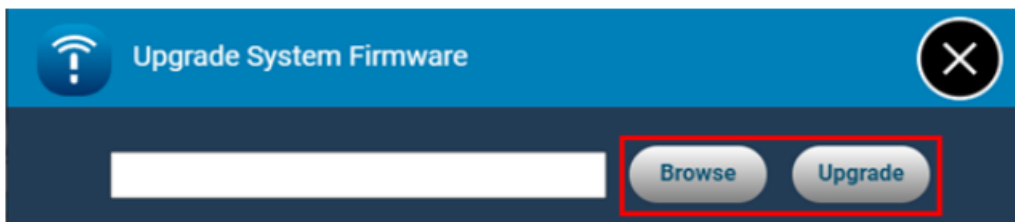
Upgrade System Firmware

Step 1: Click the “Upload” icon.

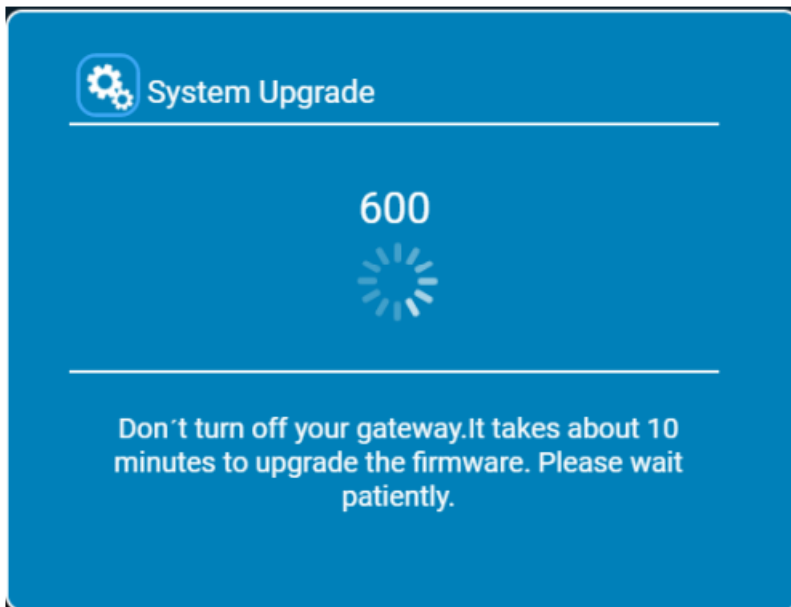


Step 2: Click the “Browse” button to select the firmware file (filename.bin).

Step 3: Click the “Upgrade” button to start upgrading firmware.



Step 4: Wait 600 seconds until upgrade finished.



If upgrading failed, please refresh the web page, and then back to the step 1.

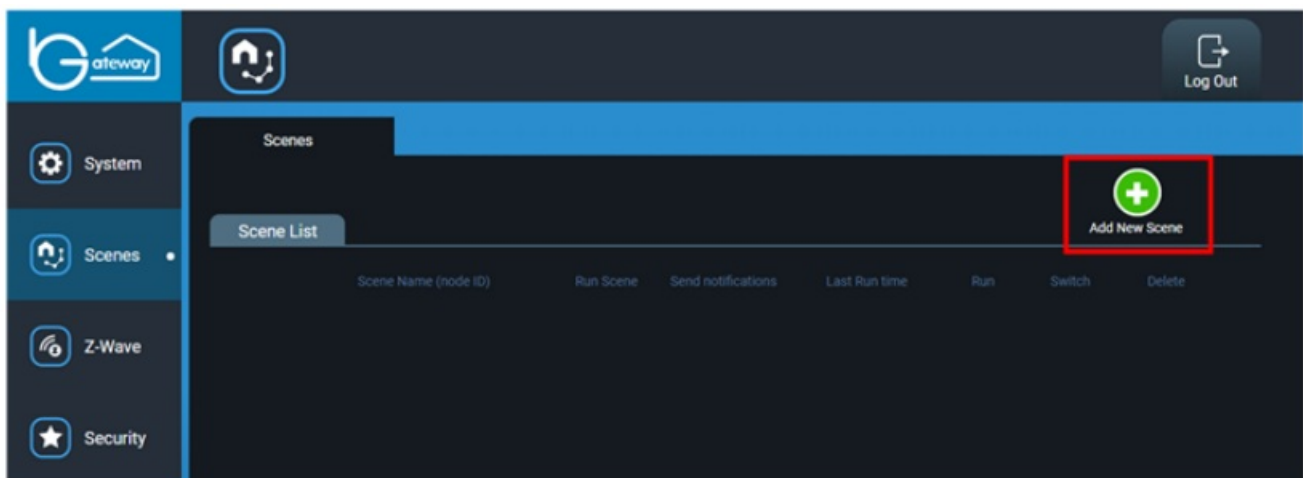
Scenes Functions

You can integrate numbers of Z-Wave devices which can be executed by any of the following triggers:

- Events
- The designated devices can be triggered by notification of another device.
- Schedule The designated devices can be triggered by preset time.
- Manual A user can manually execute a Scene by clicking "Run".

Add Scene Rule

Step 1: Click "Add New Scene" button.



Step 2: Enter scene name.

Step 3: Select scene icon and then click "**Next**" button.

Step 4: Select location of trigger device.

Step 5: Select device of trigger event.

Step 6: Select event of trigger device.

Step 7: Click the “**Next**” button.

Step 8: Select location of task device.

Step 9: Select device of task event.

Step 10: Select event of task device.

Step 11: Click the “**Next**” button.

+ Add Scene(Task Event)

Task

- a DEMO ROOM light_meeting Binary switch on ✓
- b Location Device Event
- c Location Device Event
- d Location Device Event
- e Location Device Event

Back Next

Step 12: Check information and then click the “**Finish**” button.

+ Scene

Meeting

Trigger: DemoRoom - ZT1141 - Presse...

Task: DEMO ROOM - light_... - Binary...

Back Finish

Delete Scene Rule

Step 1: Click the scene delete button.

Gateway

Scenes

Scene List

Add New Scene

Scene Name (node ID)	Run Scene	Send notifications	Last Run time	Run	Switch	Delete
Meeting (ID:59)	2020-09-25 10:04	None	Update	Play	Toggle	Delete (Red Box)

System

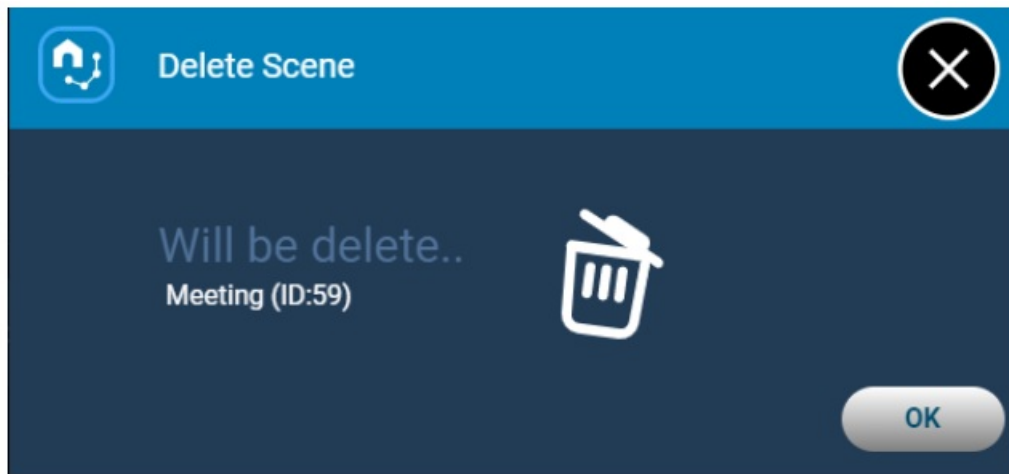
Scenes

Z-Wave

Security

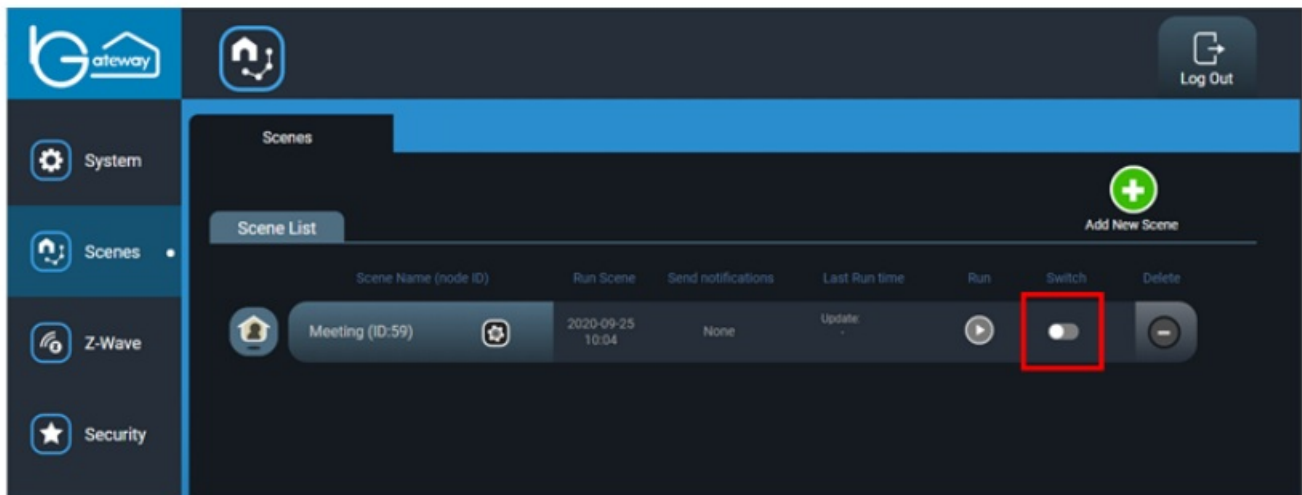
Log Out

Step 2: Click the “OK” button.



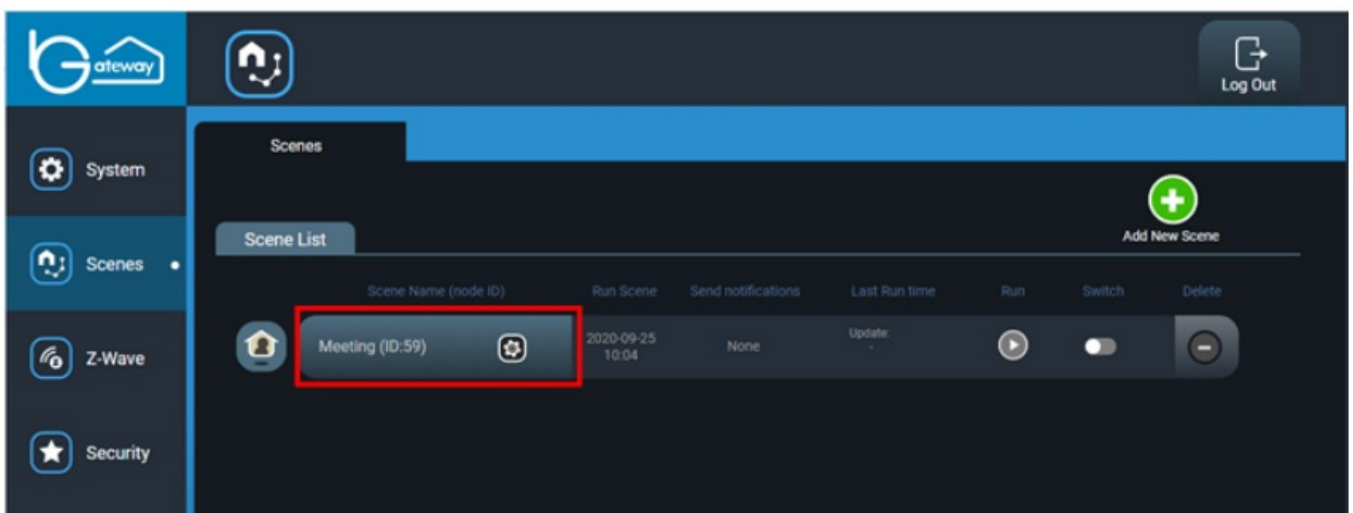
Enable/Disable scene rule

Step 1: Click the scene switch button.

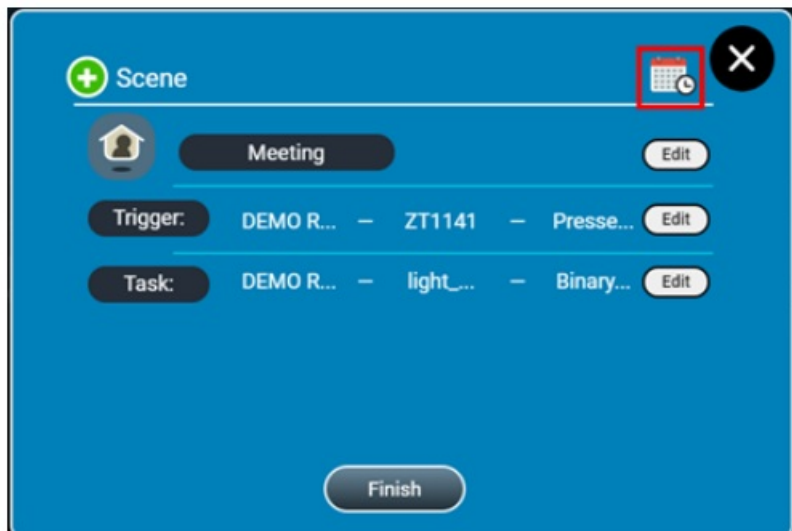


Scene schedule

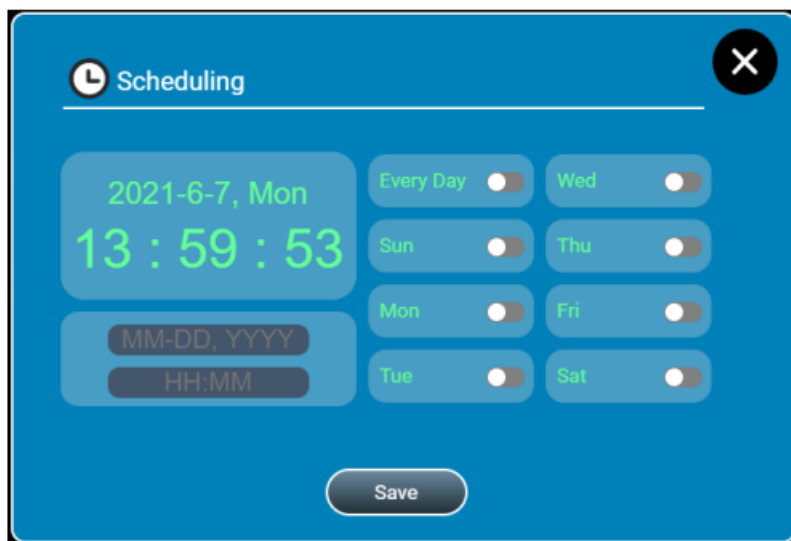
Step 1: Click the scene setting



Step 2: Click the “schedule” icon Click the “schedule” icon



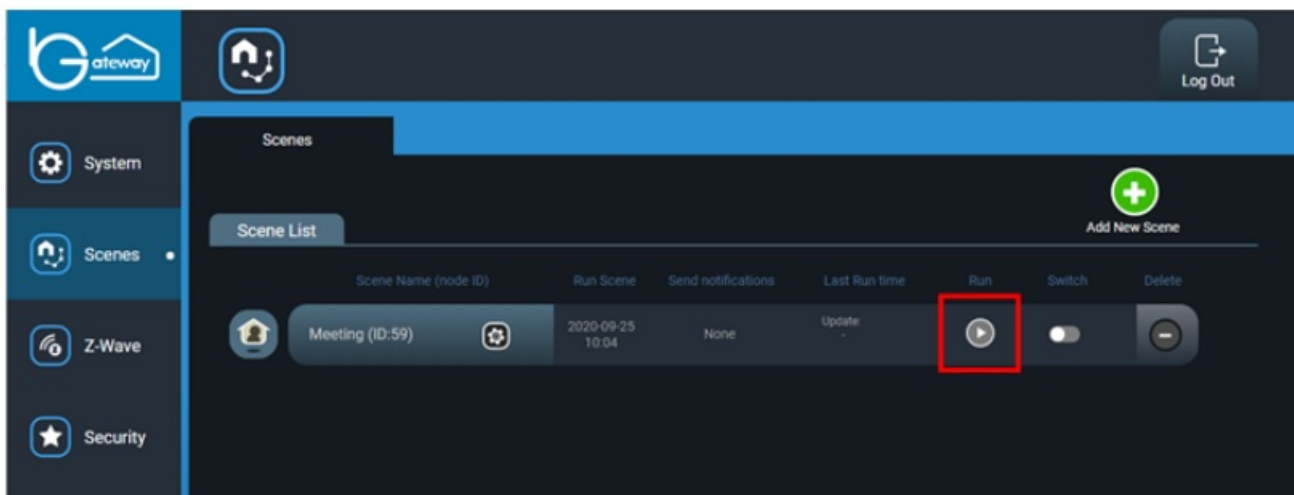
Step 3: Select date, time and repeat days.



Step 4: Click the “Save” button.

Scene task implement directly

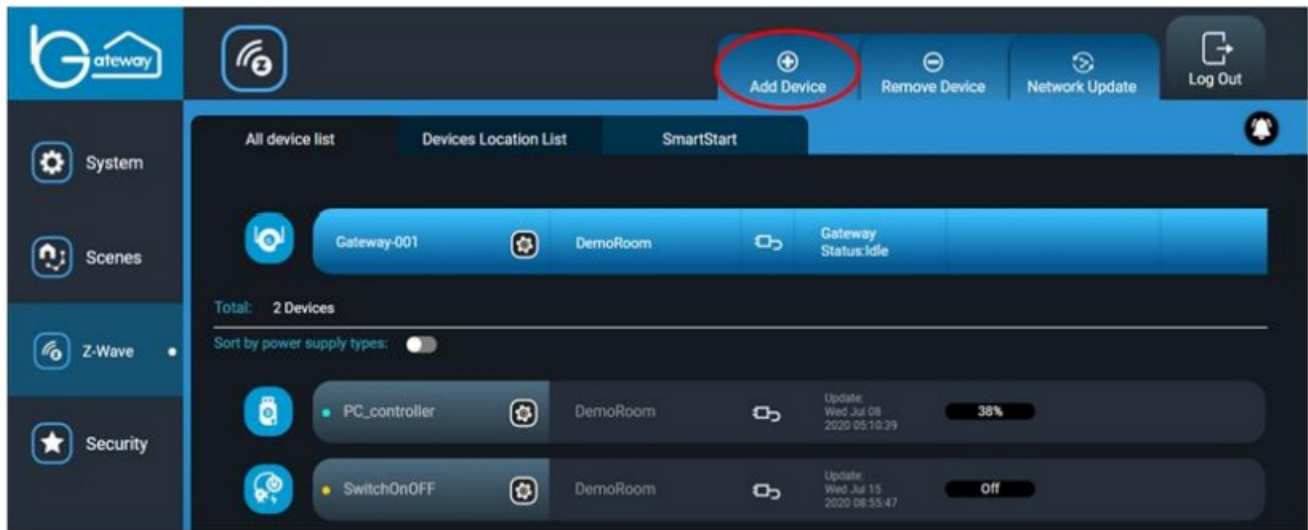
Step 1: Click button “Add Device” on the website



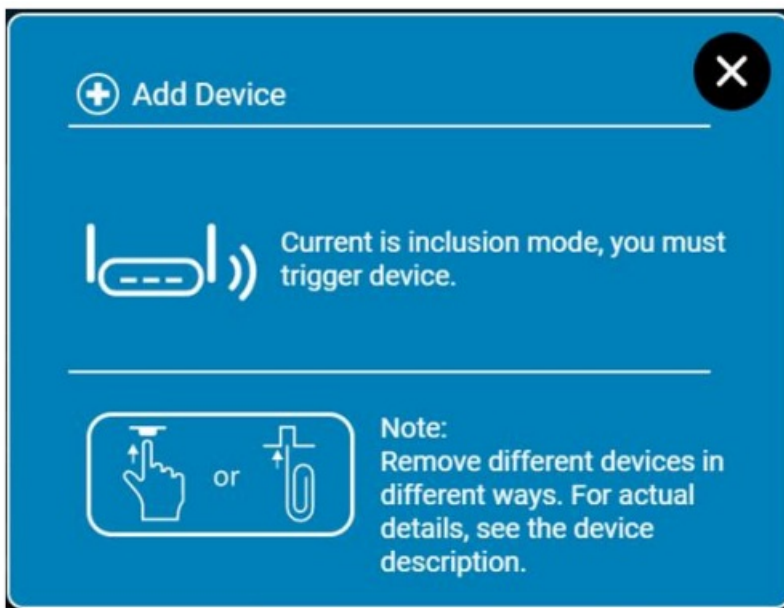
Z-Wave Functions

Adding Device (Inclusion)

Step 1: Click button “Add Device” on the website.



Step 2: System is on inclusion mode and waiting for user to trigger inclusion mode of device. If you would like to stop this action, just taps Exit button.



Step 3: After triggering device, the gateway will show “**Setting Security Grant**”. If the device supports S2 Security, please choose the security level for the device. If the selection is “**S2 Access Control**” or “**S2 Authenticated**”, the system will prompt user to input the device first 5 digit of the DSK. If device only supports S0, the gateway will automatically skip “Setting Security Grant” step.

+

Add Device

Setting Security Grant

✓

S2 AccessControl

✓

S2 Authenticated

✓

S2 Unauthenticated

✓

S0 Unauthenticated

Different levels of Security

Non-secure	<div></div>		
S0	<div></div>		
S2	<div></div>		

202102 (Door Sensor)

2F- Living room

100

NEXT

+

Add Device

55119 -40552-61736-30405-17761-10384-43957-46095

Please input the top five of device DSK

NEXT

Step 4: Wait for the whole inclusion process to finish; it may take up to 1-2 minutes depending on the device.

Step 5: If the inclusion is successful, the system will show “device included successfully”.

Otherwise, a failure message will appear.

+

Add Device

[Node 10] was included successfully!

NEXT

Step 6: If the inclusion is successful, you will be asked to name the device and set up a location of the device

+

Add Device

Device Name

TEST

Location

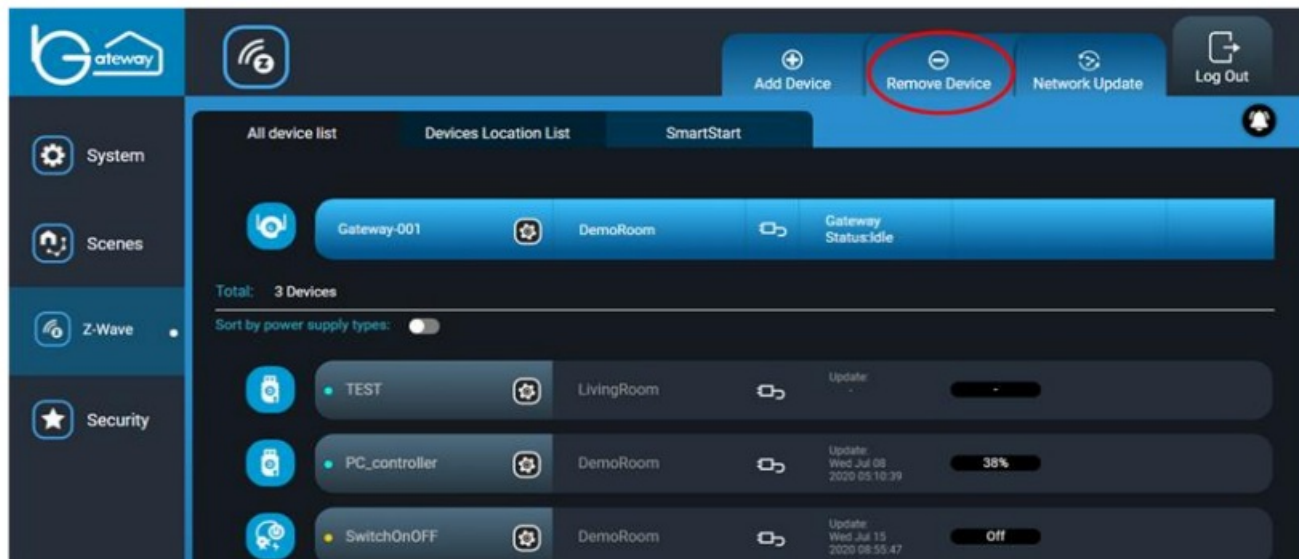
LivingRoom

Add

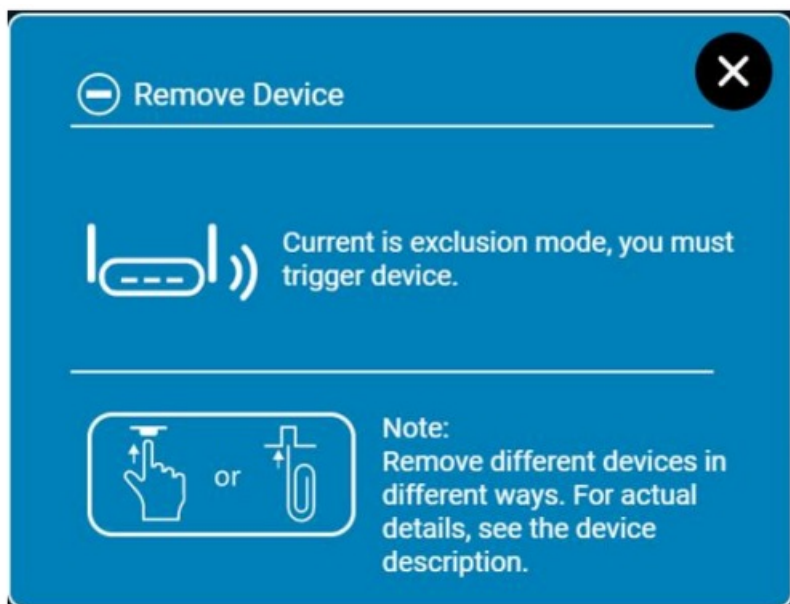
Finish

Remove Device (Exclusion)

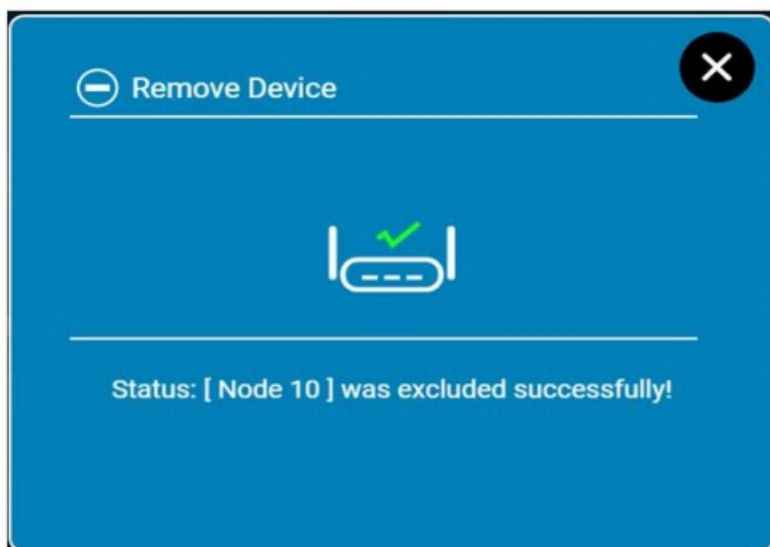
Step 1: Click button “Remove Device”.



Step 2: System is on exclusion mode and waiting for user to trigger the intended device to removal mode. If you would like to stop this action, just taps Exit button.



Step 3: If the exclusion is successful, system will show the excluded node ID on the pop-up window.

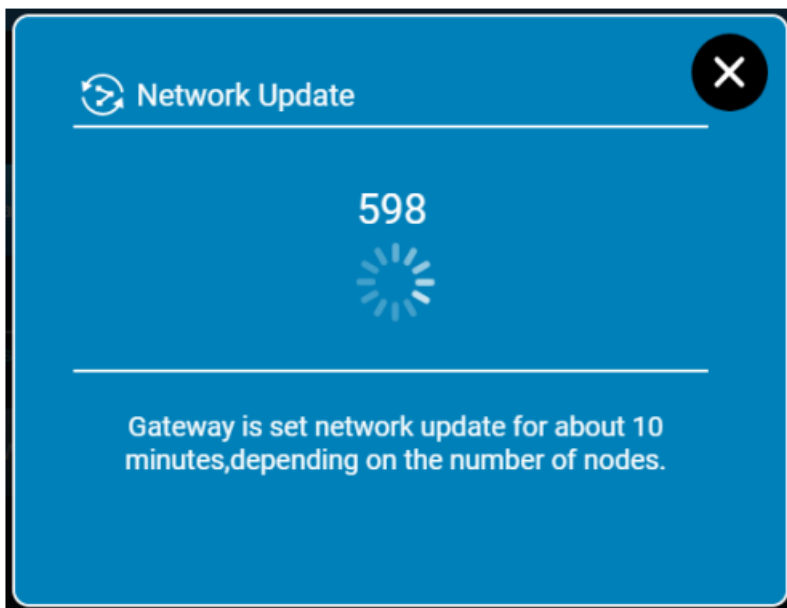
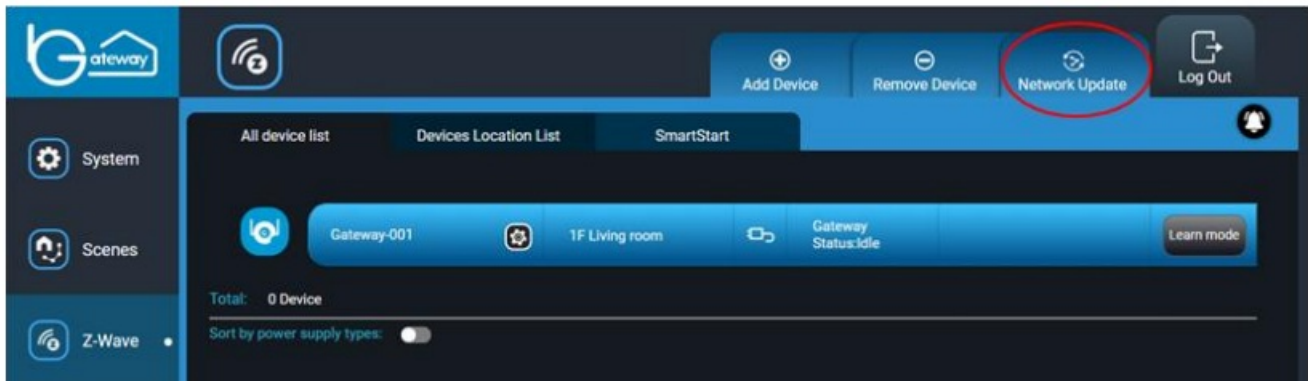


Initiate a replication to copy network information from your gateway to another controller.

1. Start the add device process in Adding Device.
2. Follow the manufacturer's instructions of the other controller to enable it to go into learn mode.
3. Enter DSK code if necessary, and await the whole process to finish.

Network Update

Update your Z-Wave network for maintenance and optimization routine, which includes checking and repairing node return routes and checking node neighbors. This operation will also be performed at least 10 minutes.



Check a Z-Wave device

Check and attempt to locate missing or out of range devices, if icon turns gray, the device loses connection.

Note if device is a battery type, the battery maybe is out of power.

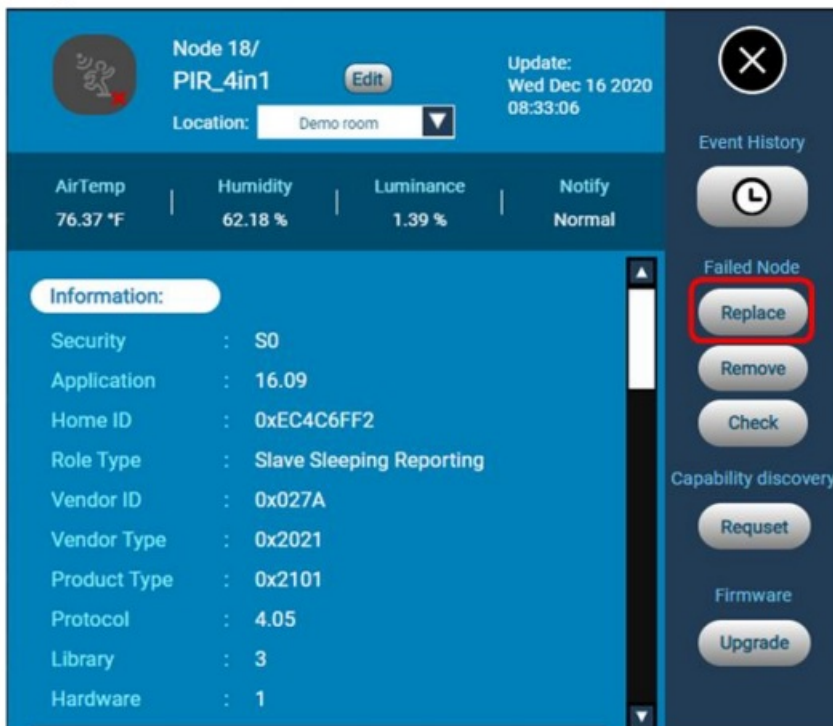
Step 1: Click "Check" button.

Step 2: Wait gateway for looking for missing device.

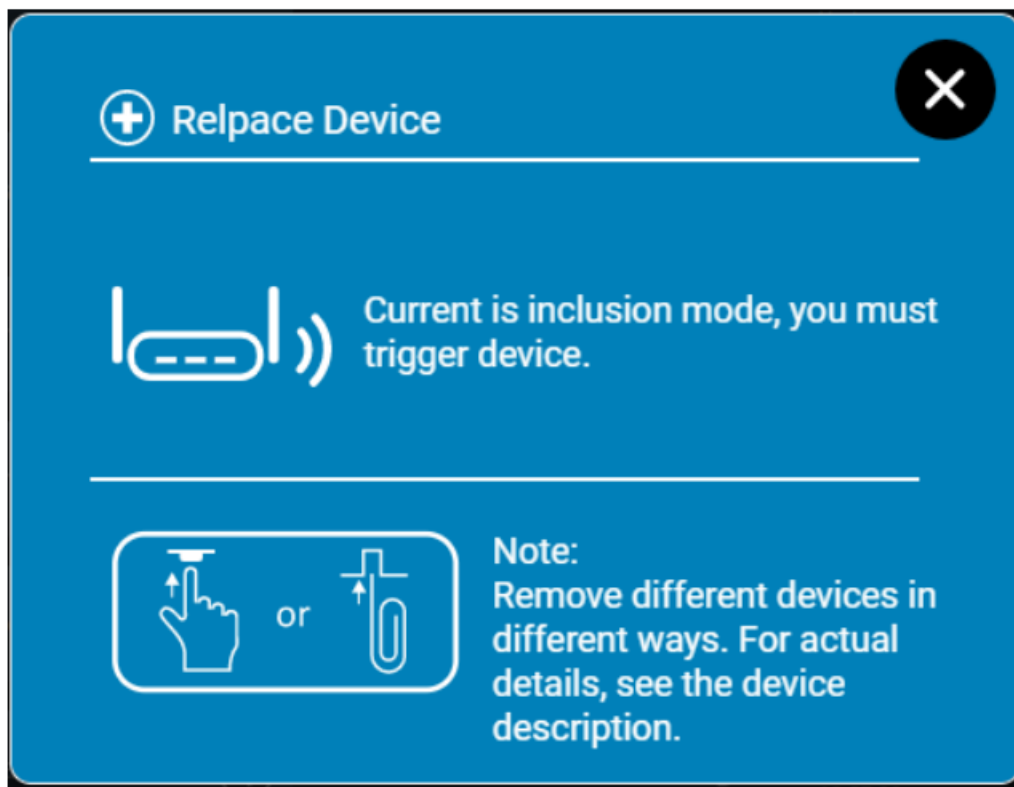


Replace a failed Z-Wave device

Step 1: Click “Replace” button.



Step 2: Start the add device process in Adding Device.

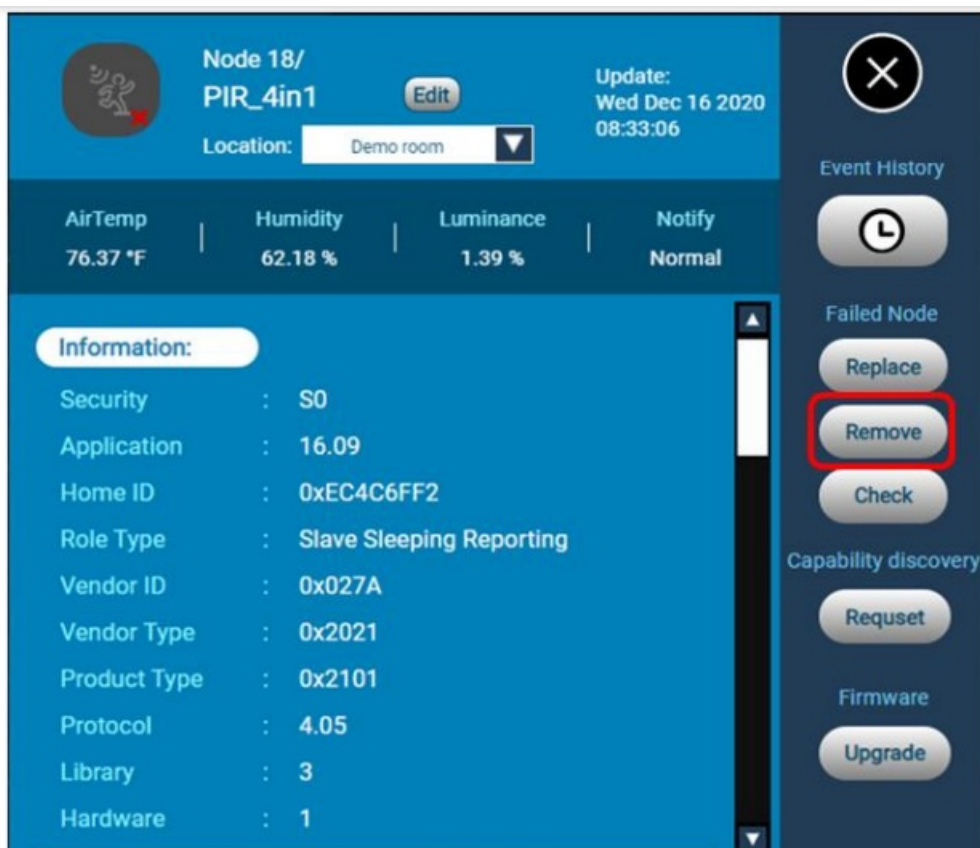


Step 3: Follow the manufacturers instructions of the other controller to enable it to go into learn mode.

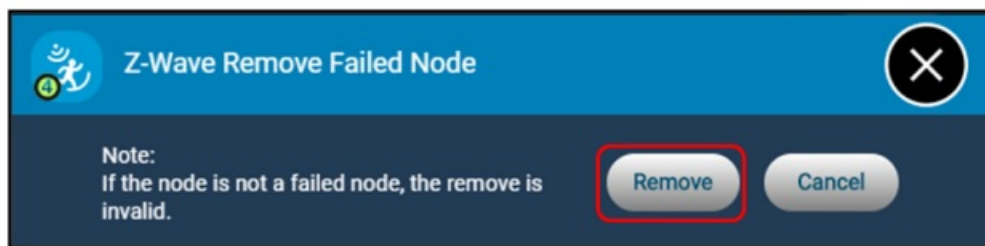
Step 4: Enter DSK code if necessary, and await the whole process to finish.

Remove a failed Z-Wave device

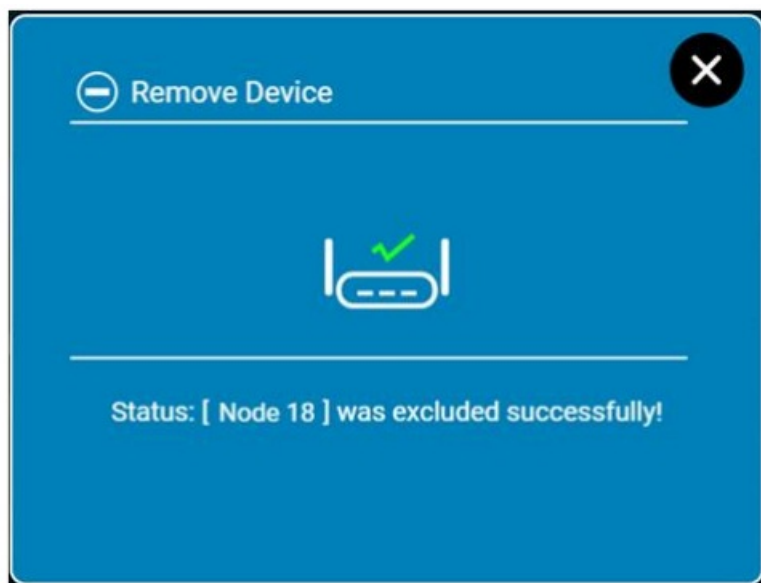
Step 1: Click “Remove” button, if the device is failed node.



Step 2: Click “**Remove**” button would force remove the device.

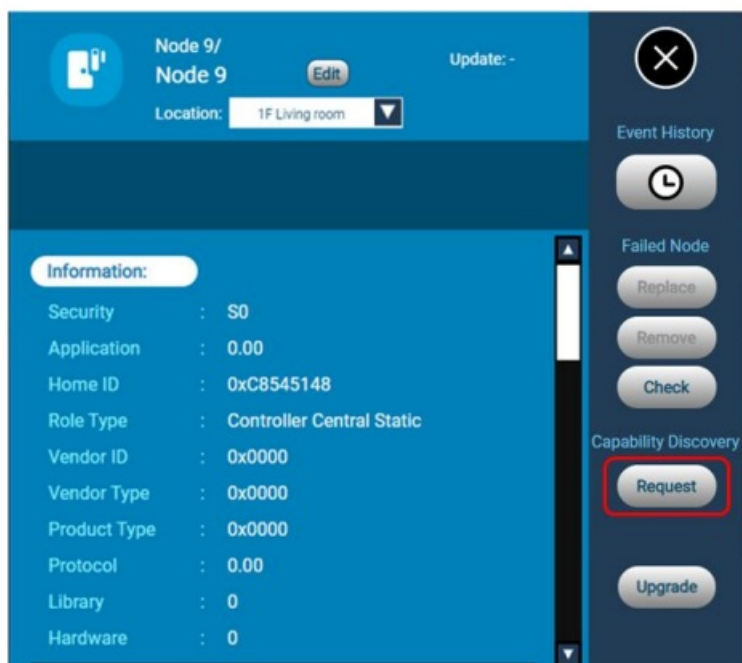


Step 3: If the exclusion is successful, system will show the exclude node ID on the pop-up window.

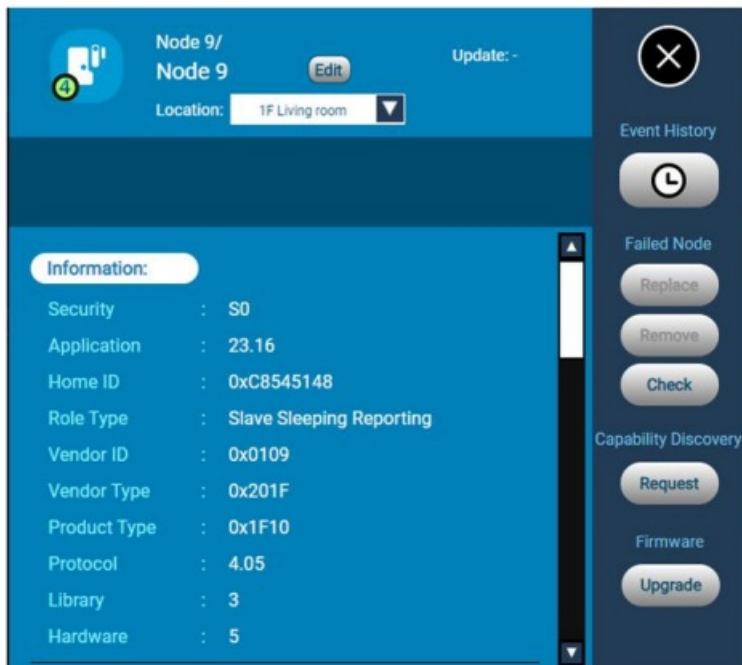


Remove a failed Z-Wave device

Step 1: Click “Request” button, the Mini Gateway would rediscovery the device capability.



Step 2: If successful, the device information would update correctly.



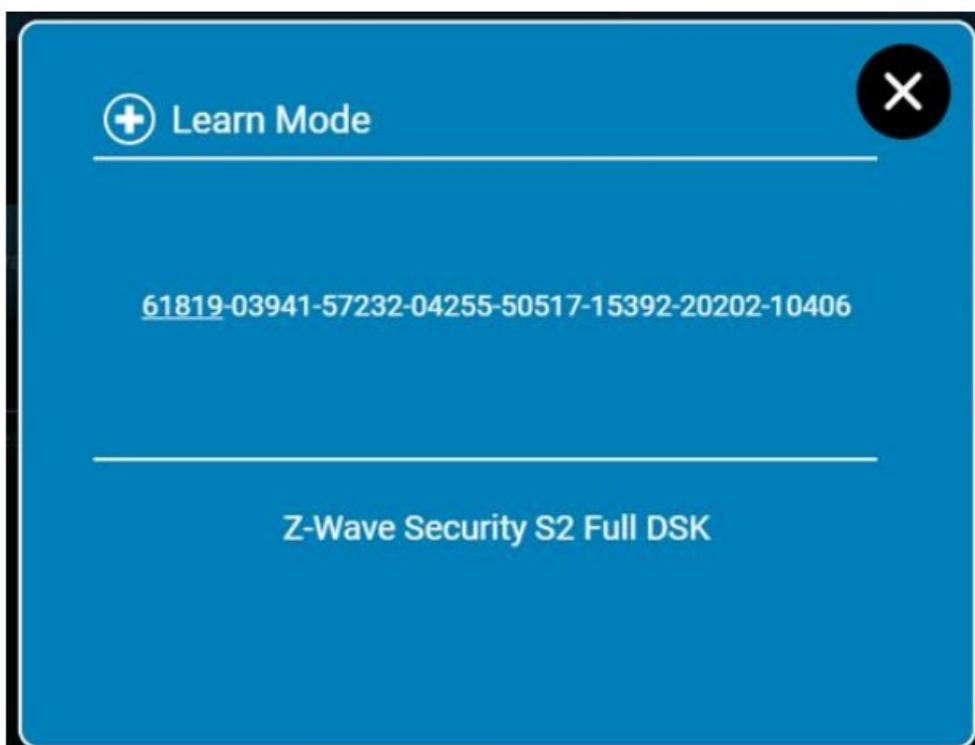
Including the Mini Gateway to an existing network (Learn mode)

The Z-Wave gateway can also function as an Inclusion / Secondary Controller in the existing Z-Wave network.

Step 1: Follow the manufacturer's instructions of the other controller to enable it into Add mode.

Step 2: Click "**Learn Mode**" button. If it is a S2 Controller, the DSK of the Gateway will appear.

Please key in the DSK to the other Controller UI when prompted.



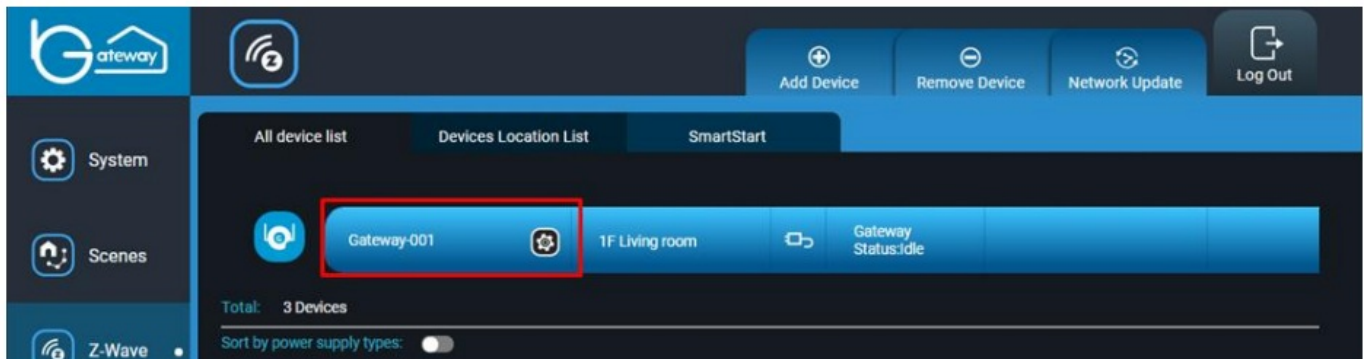
Step 3: When completed, the UI will show the existing Controller and device(s) in the network.

Factory Default Reset

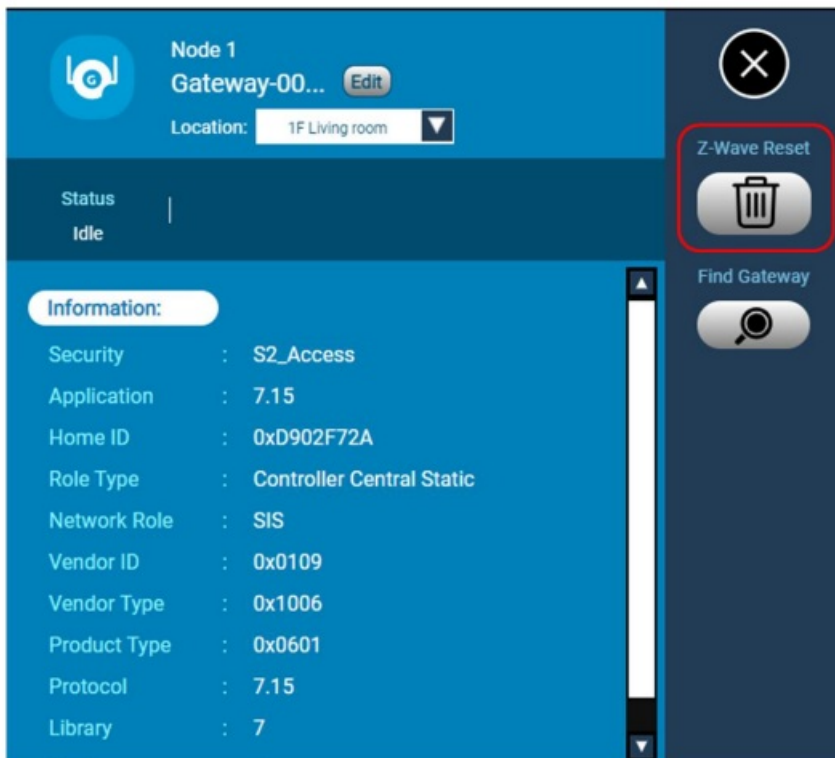
Factory resets of Z-Wave controller. Do note that once this is done, any device in the Z-Wave network will not be accessible. Hence proceed with caution when doing reset as it is irreversible. If this controller is the primary

controller for your network, resetting it will result in the nodes in your network being orphaned and it will be necessary after the reset to exclude and re-include all of the nodes in the network. If this controller is being used as a secondary controller in the network, use this procedure to reset this controller only in the event that the network primary controller is missing or otherwise inoperable.

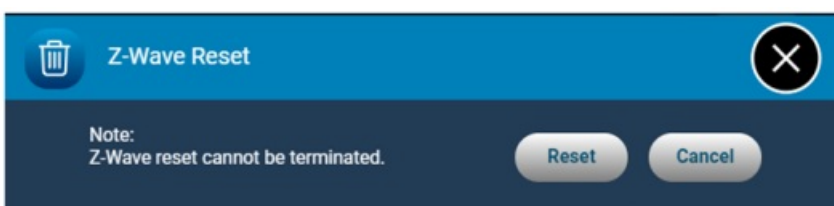
Step 1: Click Gateway setting button.

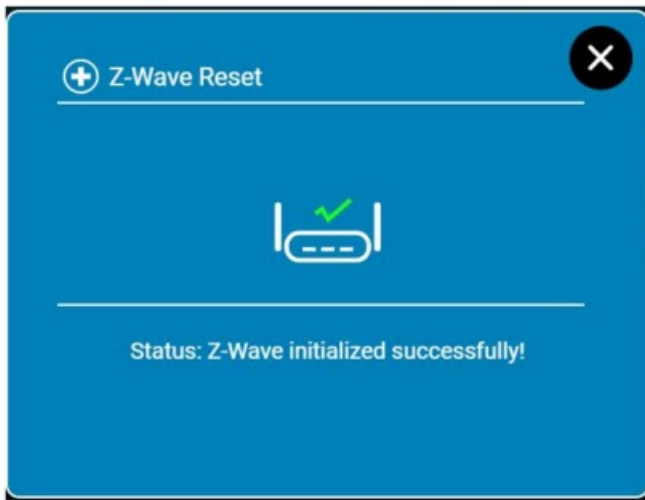


Step 2: Select “Z-Wave Reset” button



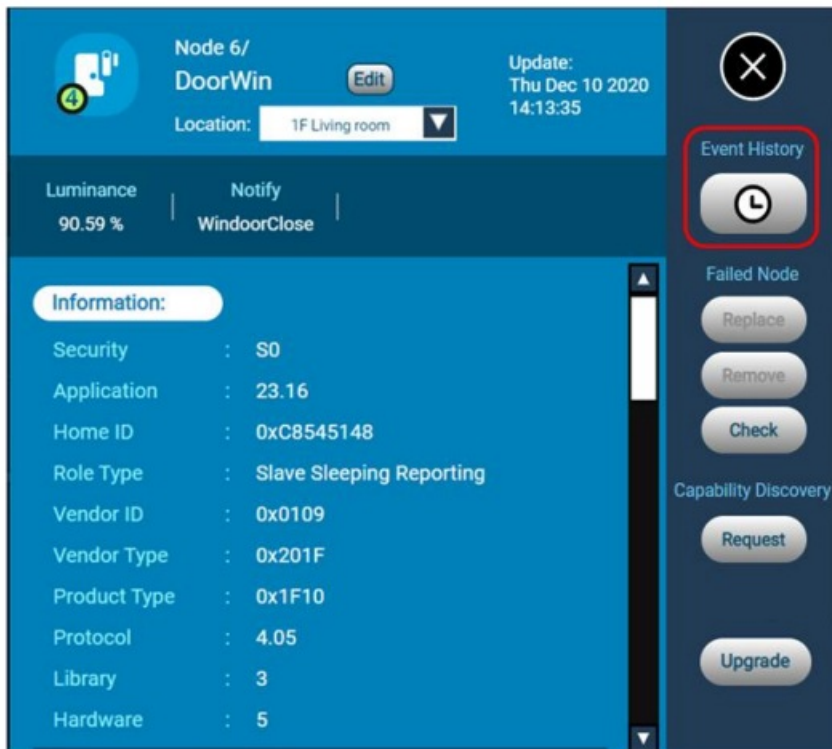
Step 3: Confirm the dialog. Click “Reset” button will perform a factory reset to the Gateway.





Device Event History

Click the icon to show history of device.



Today	All Type	Description
2020-12-10T14:26:42	Notification	Endpoint: 0, Type: AccessControl, Event: WindowClose
2020-12-10T14:26:40	Notification	Endpoint: 0, Type: AccessControl, Event: WindowOpen
2020-12-10T14:26:39	Notification	Endpoint: 0, Type: AccessControl, Event: WindowClose
2020-12-10T14:26:38	Notification	Endpoint: 0, Type: AccessControl, Event: WindowOpen
2020-12-10T14:26:36	Notification	Endpoint: 0, Type: AccessControl, Event: WindowClose
2020-12-10T14:26:34	Notification	Endpoint: 0, Type: AccessControl, Event: WindowOpen
2020-12-10T14:15:49	Sensor Multi-level	Endpoint: 0, Type: Luminance, Value: 100.00%
2020-12-10T14:13:35	Notification	Endpoint: 0, Type: AccessControl, Event: WindowClose
2020-12-10T14:13:34	Sensor Multi-level	Endpoint: 0, Type: Luminance, Value: 90.59%

Add/Remove node to SmartStart List

Step 1: Click “**SmartStart**” from Z-Wave menu.

Step 2: Type in 40 decimals S2 DSK number of the device which user wants to add in using SmartStart and presses “Send”.

No further action is required and the SmartStart product will be added automatically.

The top screenshot shows the 'SmartStart' tab in the Z-Wave menu. The 'Add DSK to SmartStart List' form has a red box around the 'DSK' input field and the 'Send' button. The 'Current List' table shows one entry with ID 1 and DSK Number 55119-40552-61736-30405-17761-10384-43957-46095.

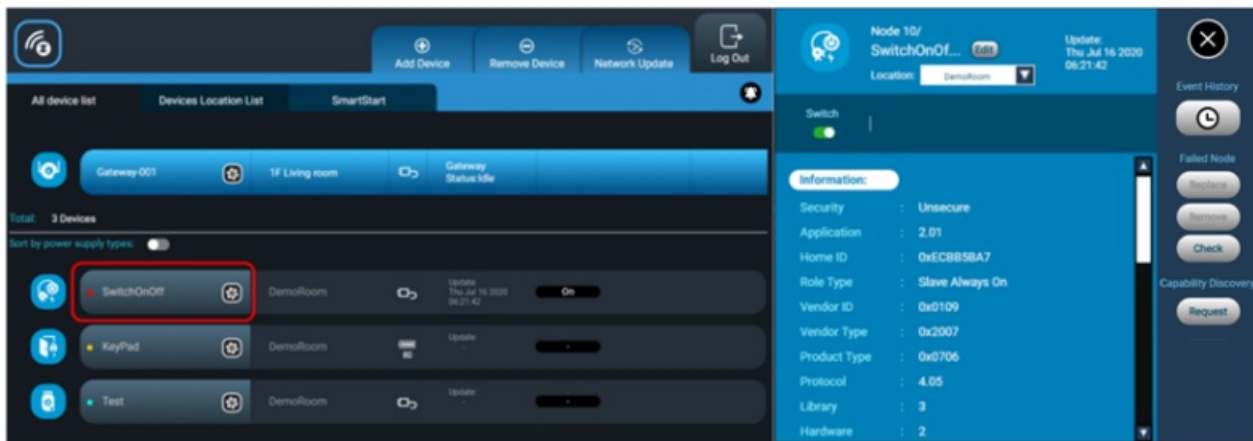
The bottom screenshot shows the 'Current List' table with two entries. The second entry, with ID 2 and DSK Number 19763-22057-16438-20728-20782-49043-56778-16729, is highlighted with a red box.

Step 3: You can use “Remove” button to remove the specified DSK.

Additional Information

Controlled Command Classes

Our product has two ways to control device. End user could quickly switch status from node table (such as switch on/off, lock/unlock, multi level switch, etc.) or click configuration icon to enter detail setting of the node



Association Command Class and Multi Channel Association Command Class

The gateway supports Association Command Class. It has one association group 1 (“Lifeline” Group); only one device can be associated to this group.

The Gateway will send reset notifications to the associated device when the factory reset is performed on the Gateway.

End user could control Association Command and Multi Channel Command from detail setting interface. If device supports Association Command Class and Multi Channel Association Command Class at same time the gateway only show Multi Channel Association Command Class in the detail setting.

Multi-channel Association:

No.	Group	Endpoint	Max	(Dest.)Node	(Dest.)Endpoint	Option
1	1	0	5	1	0	Delete

Group ID :

Source Endpoint :

Destination Node :

Destination Endpoint :

Association:

No.	Group	Max	(Dest.)Node	(Dest.)Endpoint	Option
1	1	5	1	0	Delete

Group ID :

Destination Node :

Basic Command Class

The gateway is able to controlled Basic Set/Get CC to devices but not supported. It's going to ignores requests when others controller send Basic Set/Get CC to Gateway. This command must to enter detail setting interface

Basic:

Endpoint :

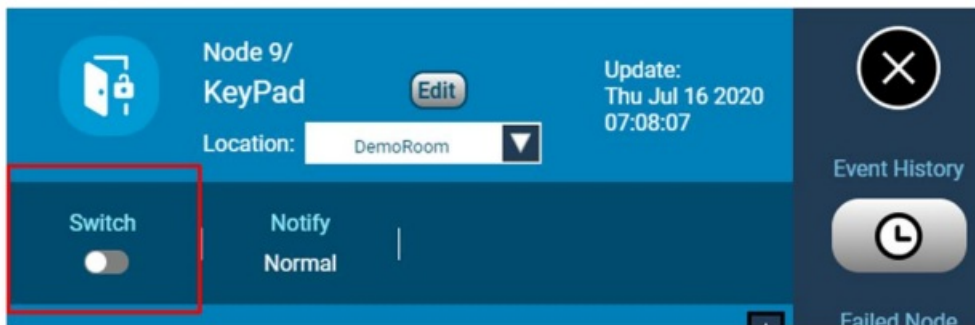
Value :

Battery Command Class

The gateway display battery level on node table when device support Battery Command Class.
Or send battery get command from detail setting interface manually.

Binary Switch Command Class

End user could switch status from detail setting of the node.



Door Lock Command Class

End user could switch lock and unlock from detail setting of the node

Node 13/
DoorLock
Edit

Update:
Thu Jul 16 2020
07:16:36

Location: DemoRoom

Lock
☒

Event History

Failed Node

Door Lock Table

Type	Door Handles Mode		Timeout		Time		Twist assist	Block-to-block
	Out	In	Min	Sec	Auto-relock	Hold and release		
Constant	15	15	0	0	20	3	1	1

Set the door mode:

OP Mode : Select
Set Mode

Lock status: Door Unsecured

Configure the door lock:

Operation Type : Select
Send Setting

Outside Door Handles Mode :

☒ Handle 1
☒ Handle 2
☒ Handle 3
☒ Handle 4

Inside Door Handles Mode :

☒ Handle 1
☒ Handle 2
☒ Handle 3
☒ Handle 4

Auto-relock time :

Hold and release time:

TA (Twist assist) : ☒ Enable

BTB (Block-to-block) : ☒ Enable

Central Scene Command Class

The gateway provide setting scene in the detailed setting.

CentralScene:

Central Scene Rule Table							
No.	SceneID	KeyEvent	(Dest.) Node	(Dest.) Ep	Command	Value	Option
SceneID	:	<input type="text" value="Select"/> ▼					
KeyEvent	:	<input type="text" value="Select"/> ▼					
Destination Node	:	<input type="text" value="Select"/> ▼					
Destination Endpoint	:	<input type="text" value="Select"/> ▼					
Command	:	<input type="text" value="Select"/> ▼					
Value	:	<input type="text" value="Select"/> ▼					

Send Setting

If you want to test your scenes, you must trigger central scene device.

- Pressing shortly the key can be used as trigger for scenes.
- Holding the key does nothing.
- Releasing the key (after long press) can be used as trigger for scenes.
- Holding and releasing are both shown as “Long Pressed” each.

Configuration Command Class

End user could control this command from the detailed setting interface. Set and Get must refer device user manual.

Configuration:

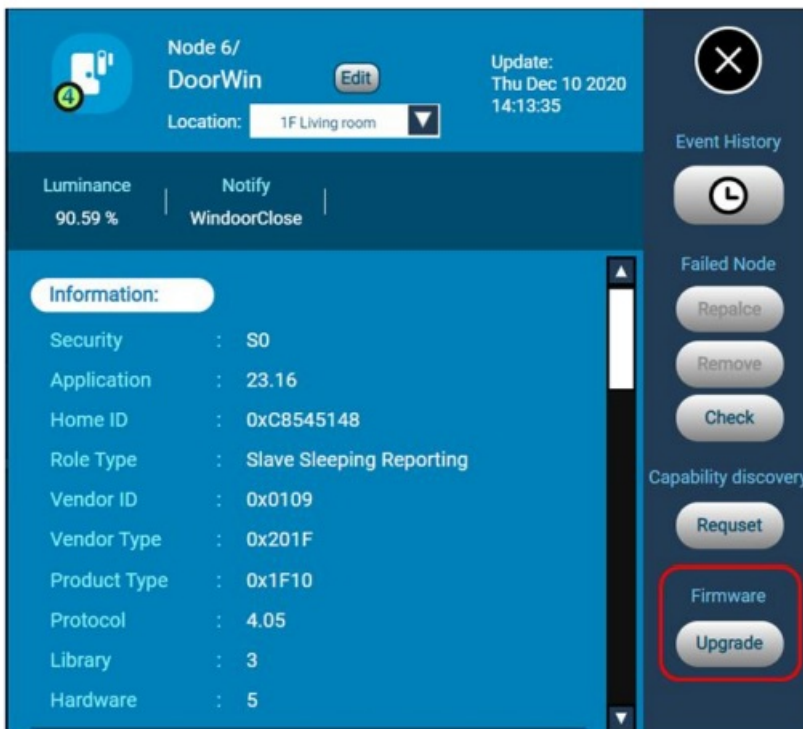
Configuration Table				
Parameter	Value[Byte1,Byte2,Byte3,Byte4]	Default Value	Max	Min
Parameter	:	<input type="text" value="Select"/> ▼		
Byte	:	<input type="text" value="Select"/> ▼		
Value	:	<input type="text"/>		

Send Setting

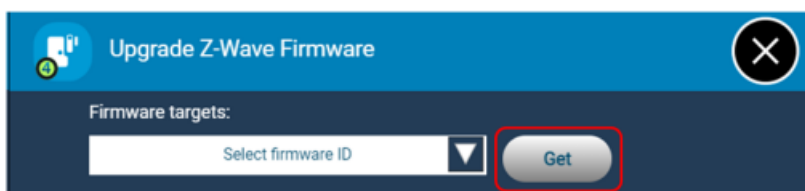
Get Setting

Firmware Update MD Command Class

This command must enter the detailed setting interface and click button “**Upgrade**”.

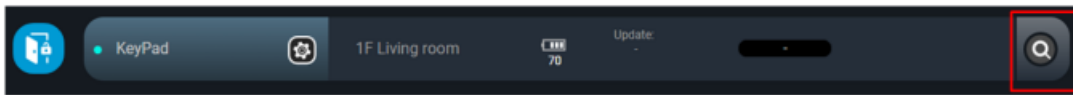


Some devices have several firmware targets. End user must click the “**Get**” button to get firmware targets information and select targets before firmware update.



Indicator Command Class

End users could control this command from the detailed setting interface or click the icon to identify itself. The supporting node will be switched on 600ms and switched off 200ms three times.



Indicator:

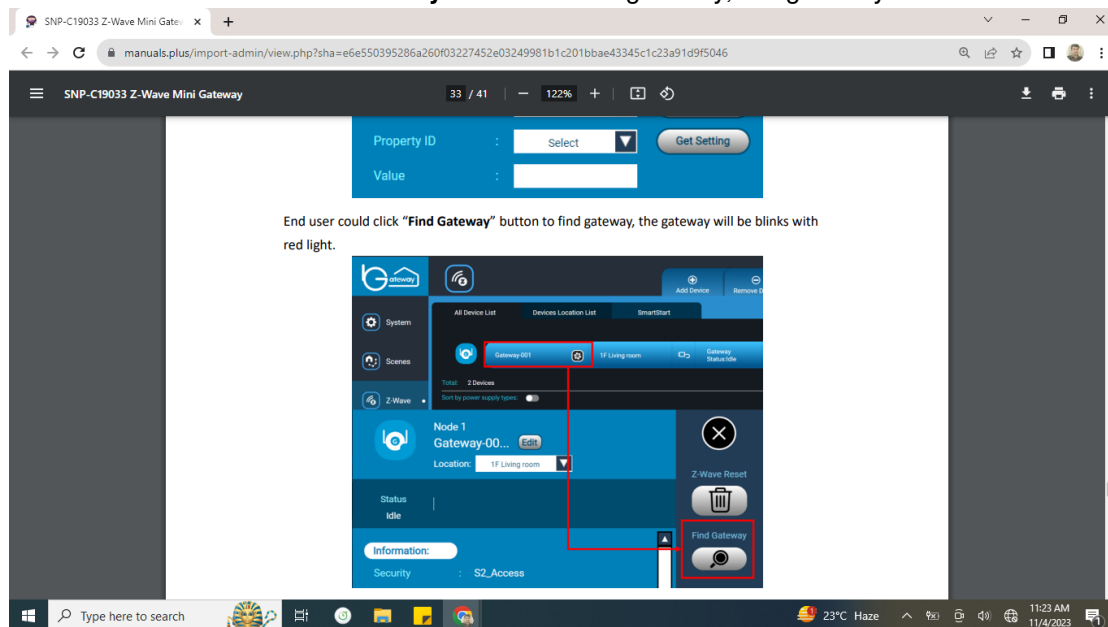
Indicator ID	Property ID	Value	Option
Buzzer	Binary	0	<button>Delete</button>

Indicator ID : Send Setting

Property ID : Get Setting

Value :

End user could click **"Find Gateway"** button to find gateway, the gateway will be blinks with red light.



Meter Command Class

End users could get different unit from the detailed setting interface.

Meter:

Rate Type : Import only (consumed) Meter Reset

Meter Type : Electric meter Send Setting

Endpoint :

Unit :

Multilevel Switch Command Class

End users could switch level 0 to 100 from node table. If you want to confirm the current level, you must enter the detailed setting.

Node 7/
Node 7

Edit

Update: -

Location: 1F Living room

100%

Multi-level

×

Event History

⌚

Failed Node

Start level change:

Endpoint : Select

Start Level Change

Primary Switch Up/Down : Select

Stop Level Change

Secondary Switch Inc/Dec : Select

Ignore Start Level : ☒ Enable

Primary Switch Start Level : Select

Duration : Select

Secondary Switch Step Size : Select

Notification Command Class

When gateway has received a Notification Command Report, it displays on node table.

Node 7/
Node 7

Edit

Update:
Thu Jan 14 2021
10:57:01

Location: 1F Living room

×

Event History

⌚

HeatAlarm

System

HomeHealth

Siren

Normal

Normal

Normal

Normal

Notification:

Endpoint : Select

Get Setting

Type :

Power Level Command Class

End users could control this command from the detailed setting interface.

Power Level:

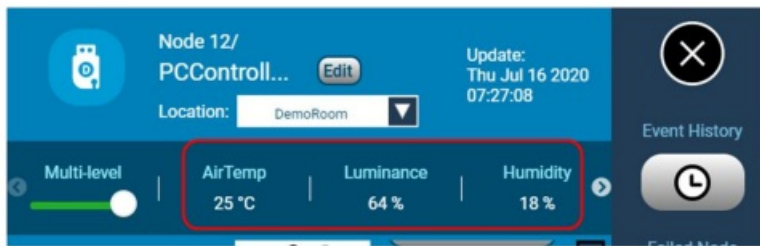
Power-level : minus2dBm

Send Setting

Timeout : 60

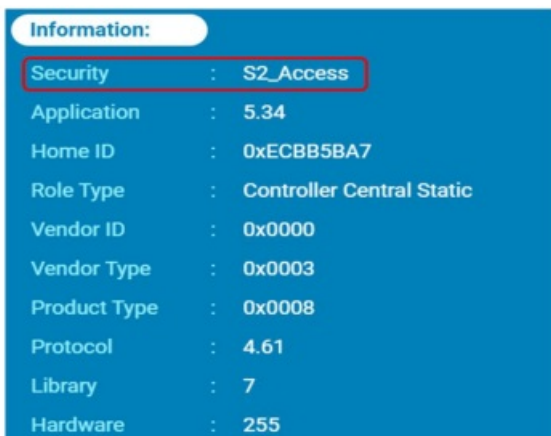
Sensor Multilevel Command Class

When gateway received Sensor Multilevel Command Report it display on node table.
The gateway doesn't provide end user send this command.



Security Command Class

The gateway is a security-enabled device. When a security-enabled Z-Wave device is added to the Gateway's network, its secure communication will be 128-bit AES encrypted. Whether S0 or S2 is used, they will depend on the included device. End users could view security level from the detailed setting interface.



Sound Switch Command Class

End users could switch sound tone and volume from the detailed setting interface.



User Code Command Class

End users could control this command from the detailed setting interface.

User Code:

User Code Table			
User ID	Status	User Code	Option
1	Reserved by administrator	ABCD	Delete
256	Available (not set)		Delete

Master Code Table	
Master Code	Option
1111	Disable

Set the user code:

User ID :

User Code :

Send Setting

Set the keypad mode:

KeyPad Mode :

Current Mode : Vacation mode

Send Setting

Set the master code:

Master Code :

Send Setting

Wake Up Command Class

End users could control this command from the detailed setting interface.

Wake Up:

Wake Up Table				
(Dest.)Node	Current(s)	Max Range(s)	Min Range(s)	Interval(s)
1	43200	604800	600	600

Destination Node :

Wakeup Duration :

Get Detail

Send Setting

Anti-Theft Unlock Command Class

End users could control this command from the detailed setting interface.

Anti-Theft Unlock:

Anti-Theft Unlock Table	
State	Restricted Mode
Unlock	Is not restricted

Code Length :

Select ▼

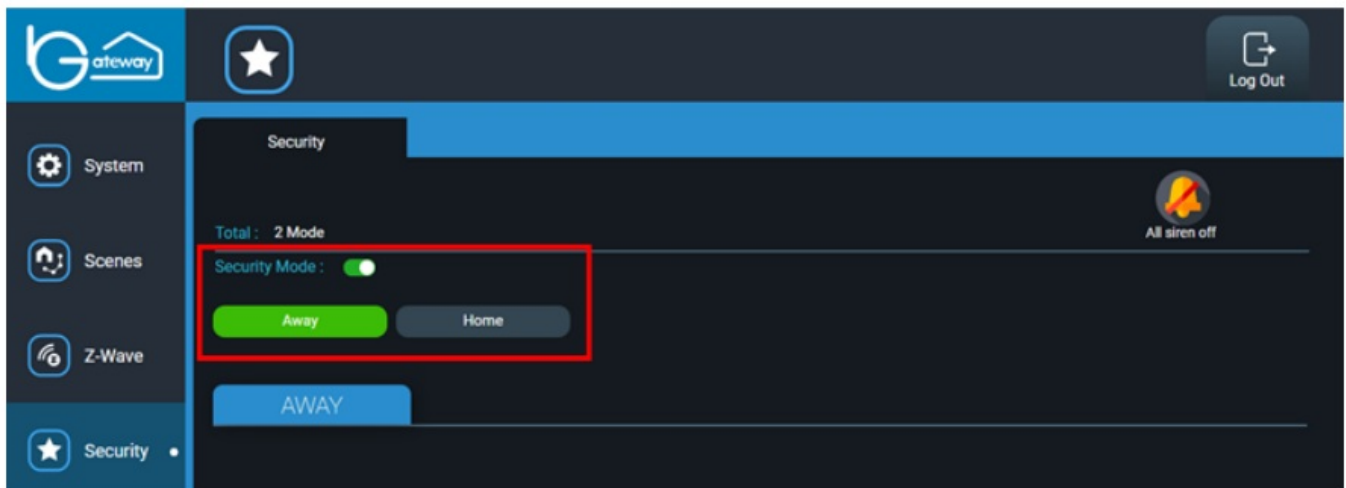
Magic Code 1 : 0x

Send Setting

Security Functionality

Setting Security Mode

Step 1: Switch your security mode.



Step 2: If setting successfully, the background of security mode will become green color.

Disable Security Mode

Step 1: If you want to disable security mode, please click toggle button of “**Security Mode**” side.

Step 2: Enter website to log in and then click “**OK**” button.

Security Mode Setting

Note:
Are you sure to disable security mode?
If yes, please enter the login password.

Login password

OK

Setting the security mode detection devices

Step 1: Select the security mode

Step 2: Select the devices to detect in the security mode.

Step 3: Click “**Save**” button.

AWAY

away

home

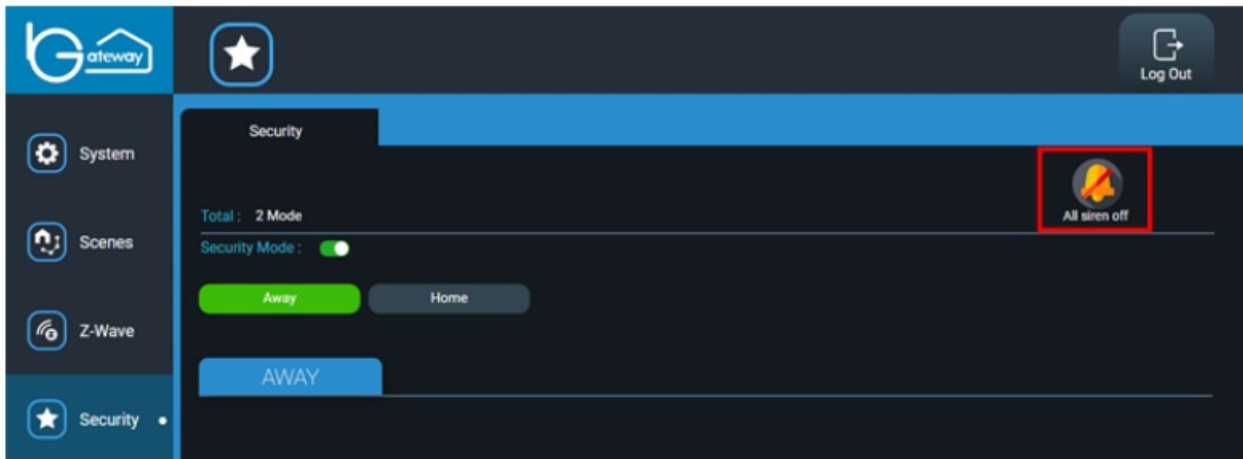
✓		Node 1		Undefined
✓		ZT1141		DEMO ROOM
✓		ZP3111		DEMO ROOM
✓		GlassBreak		DEMO ROOM
✓		light_meeting		DEMO ROOM

Cancel

Save

Turn off all sirens

Step 1: Click the “All sirens off” button for turning off all sirens.



Supported Z-Wave Device Classes

Device Class	Value	Type
GENERIC_TYPE_STATIC_CONTROLLER	02	Generic
SPECIFIC_TYPE_GATEWAY	07	Specific

Supported Z-Wave Command Classes

Command Class	Version	Security level
APPLICATION_STATUS	1	none
ASSOCIATION	3	highest granted
ASSOCIATION_GRP_INFO	3	highest granted
CRC-16_ENCAP	1	none
DEVICE_RESET_LOCALLY	1	highest granted
FIRMWARE_UPDATE_MD	5	highest granted
INCLUSION_CONTROLLER	1	none
INDICATOR	3	none
MANUFACTURER_SPECIFIC	2	This command class is supported secure only if DUT is included on S2 security level.
MULTI_CMD	1	none
MULTI_CHANNEL_ASSOCIATION	4	highest granted

NETWORK_MANAGEMENT_BASIC	2	highest granted
NETWORK_MANAGEMENT_PROXY	4	highest granted
NETWORK_MANAGEMENT_INCLUSION	4	highest granted
NETWORK_MANAGEMENT_INSTALLATION_MAINTENANCE	4	highest granted
NODE_PROVISIONING	1	This command class only supported if DUT is S1S and works on S2 Access security level
POWERLEVEL	1	highest granted
SECURITY	1	none
SECURITY_2	1	none
SUPERVISION	1	none
TIME	1	none
TRANSPORT_SERVICE	2	none
VERSION	3	highest granted
ZWAVEPLUS_INFO	2	none

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Documents / Resources

	VISION SNP-C19033 Z-Wave Mini Gateway [pdf] User Manual SNP-C19033 Z-Wave Mini Gateway, SNP-C19033, Z-Wave Mini Gateway, Mini Gateway, Gateway
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References

- [!\[\]\(849840539e55921a3851a4ff96d7400d_img.jpg\) VISION AUTOMOBILE ELECTRONICS INDUSTRIAL CO., LTD.](#)
- [!\[\]\(c176e0b06f6c5dd85a4598b214d1ebba_img.jpg\) VISION AUTOMOBILE ELECTRONICS INDUSTRIAL CO., LTD.](#)
- [User Manual](#)

Manuals+.