

Z-Wave Plus™ V2 Product Documentation for IQ Panel 2+ (A Security Enabled Z-Wave Plus V2 Device)

Inclusion Mode: Add Z-Wave™ Devices to the Network

1. On home menu, swipe down from the top of the screen. A pulldown menu should appear.
2. Press the SETTINGS icon.
3. Press the ADVANCED SETTINGS icon.
4. Enter in installer code.
5. Press the INSTALLATION icon.
6. Press the DEVICES icon.
7. Press the Z-WAVE DEVICES icon.
8. Press the ADD DEVICE icon.
9. Press the Include button to enter in the Inclusion-Mode.
10. Press the Z-Wave button on the product being added in the network.
11. IQ Panel 2+ will detect the product, and you will be shown a configuration screen for the product.
12. Press the Add Icon.
13. Repeat steps 10 through 13 for all the products being added in.

Note: All Z-Wave devices can be used together in the same network regardless of manufacturer.

Note: IQ Panel 2+ only supports normal power inclusion, where low power inclusion requires the product to be very close to the IQ Panel 2+ to be included in.

Note: Z-Wave commands can be routed through “always on” listening Z-Wave products regardless of manufacturer by taking advantage of the Z-Wave mesh network.

Note: If a product with an unsupported device type is added in, a popup will appear with the following:

“You are about to include a Z-Wave compatible device that is not promoted by Qolsys for use in this application. While the device should work as expected, the device’s features may or may not be supported by the Qolsys application. Please remove the device if you do not want to use it”.

The IQ Panel 2+ will place the product under the “UNSUPPORTED Z-WAVE DEVICES” category where only the Basic Set On/Off commands are supported for the added device. The “UNSUPPORTED Z-WAVE DEVICES” category is located under: SETTINGS -> ADVANCED SETTINGS -> INSTALLATION -> DEVICES

Note: When the device is added in, the device may be categorized under “OTHER Z-WAVE DEVICES” in “SETTINGS”. In this case, the IQ Panel 2+ does not have a category dedicated to the device type being added in.

Note: These devices can only be controlled via the Basic Command Class, with BASIC ON and BASIC OFF being the only commands controlled.

Exclusion Mode: Remove Z-Wave Devices from the Network

1. On home menu, swipe down from the top of the screen. A pulldown menu should appear.
2. Press the SETTINGS icon.
3. Press the ADVANCED SETTINGS icon.
4. Enter in installer code.
5. Press the INSTALLATION icon.
6. Press the DEVICES icon.
7. Press the Z-WAVE DEVICES icon.
8. Press the CLEAR DEVICE Icon to begin Exclusion-Mode.
9. Press the Z-Wave button on the product being excluded.
10. Popup dialog should appear indicating a successful exclusion.
11. Repeats steps 9 thru 11 for each device being excluded.

Controlling Z-Wave Devices

- On home menu, swipe to the left until the page with the desired device type is shown. Basic actuator commands, such as on/off and open/close can be accessed within these pages.
- In the case where the device is a thermostat, garage door controller, or door lock, and there are multiple devices of that type, the user may need to swipe up to see the correct devices.
- For devices with more extensive actuator command classes, these command classes can be accessed through SETTINGS -> ADVANCED SETTINGS -> Z-WAVE DEVICE LIST and pressing Info, and then scrolling to the command class to be configured for a particular node. Command classes that can be configured will have a gear icon indicating that the command class may be configured.

Note: If the device doesn't appear in any of the pages, then the device is categorized under SETTINGS -> OTHER Z-WAVE DEVICES

Note: If the device falls under a device type unsupported by the IQ Panel 2+, then it is found under SETTINGS -> ADVANCED SETTINGS -> INSTALLATION -> DEVICES -> Z-WAVE DEVICES UNSUPPORTED

Performing Learn Mode or Including Device to Existing Network and DSK Location

1. On home menu, swipe down from the top of the screen. A pulldown menu should appear.
2. Press the SETTINGS icon.
3. Press the ADVANCED SETTINGS icon.
4. Enter in installer code.
5. Press the INSTALLATION icon.
6. Press the DEVICES icon.
7. Press the Z-WAVE DEVICES icon.
8. Press the ADD/REMOVE CONTROLLER icon. The IQ Panel 2+ DSK will now be displayed. If the icon isn't present, the secondary controller functionalities needs to be enabled. Please refer to the "Enabling secondary controller functionalities" section.
9. Press the Include button on the other Z-Wave controller.
10. Popup dialog with "Operation Successful" should appear indicating a success.

Controller Replication

- When IQ Panel 2+ includes a controller, network details are automatically shared with the included controller.
- Network relevant information are transferred from the main controller to the secondary controller. In order to initiate this process, start the Add Mode on the main controller and start the Learn Mode on the secondary controller to receive the updated information

Factory Resetting IQ Panel 2+ Z-Wave Module

1. On home menu, swipe down from the top of the screen. A pulldown menu should appear.
2. Press the SETTINGS icon.
3. Press the ADVANCED SETTINGS icon.
4. Enter in installer code.
5. Press the INSTALLATION icon.
6. Press the DEVICES icon.
7. Press the Z-WAVE DEVICES icon.
8. Press the REMOVE ALL DEVICES icon.
9. Press YES on the confirmation dialog to perform a reset.

Note: 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.

Rediscovering the Z-Wave Mesh Network

1. On home menu, swipe down from the top of the screen. A pulldown menu should appear.
2. Press the SETTINGS icon.
3. Press the ADVANCED SETTINGS icon.
4. Enter in installer code.
5. Press on SYSTEM TESTS icon.
6. Press on Z-WAVE TESTS icon.
7. Press the REDISCOVER NETWORK icon.
8. Press the checkboxes on the devices you wish to rediscover.
9. Press the Rediscover icon.

What IQ Panel 2+ Does When It Receives A Basic Command

- When IQ Panel 2+ receives a Basic Set/Get, it will perform no action.

IQ Panel 2+ Association Command Class Information

- The IQ Panel 2+ supports 1 association grouping (group 1) to be used for Lifeline
- Group 1 can support up to 5 nodes

- When the user performs a factory reset on the Z-Wave module, the IQ Panel 2+ will send out a Device Reset Locally Report to each node in group 1.

Manually Setting up Association on IQ Panel 2+

1. On home menu, swipe down from the top of the screen. A pulldown menu should appear.
2. Press the SETTINGS icon.
3. Press the ADVANCED SETTINGS icon.
4. Enter in installer code.
5. Press the INSTALLATION icon.
6. Press the DEVICES icon.
7. Press the Z-WAVE DEVICES icon.
8. Press the ASSOCIATION icon.
9. Press the View button on the device the association is being modified for.
10. Press on the Edit icon for the Association group being modified.
11. Select the checkboxes for each of the devices for the association nodes.
12. Then press on Save to set the changes.

Note: After including in a device, it may take up to a minute for the device to appear in the Association page.

Note: For devices supporting the Multi-Channel Association command class, device endpoints are visible under the “Edit” page. The IQ Panel 2+ will use the Multi-Channel Association command class when assigning associations through the Association page.

Viewing Power Details from Supported Lighting/Socket Devices Supporting Meter Command Class

With a Meter Command Class supported lighting/socket device added in, from the main homepage, swipe to the left until the Light page appears. On the device entry, a “Lightning” symbol will appear which can be pressed to display the power details popup. Please note that the IQ Panel 2+ does not poll for updated power details while the power details popup is active.

More extensive information can be accessed through SETTINGS -> ADVANCED SETTINGS -> Z-WAVE DEVICE LIST and pressing Info, scrolling to the Meter Command Class and then tapping the gear icon for a particular node.

Viewing Notifications from Notification Sensors

Devices supporting the Notification Command Class will display their details in a history section. Access this by swiping down from the top of the screen, going into Settings -> Z-Wave Device Status -> History. This list is updated when a Notification Report is received.

Viewing Central Scene Information

Scene IDs and attributes can be found through SETTINGS -> ADVANCED SETTINGS -> Z-WAVE DEVICE LIST and pressing Info, scrolling to the Central Scene Command Class and then tapping the gear icon for a particular node.

Forcing a Node to Identify Itself

Nodes included in the network can be identified with the Indicator Command class by going to SETTINGS -> ADVANCED SETTINGS -> Z-WAVE DEVICE LIST and pressing Info, then scrolling to the Indicator Command Class and tapping the gear icon for a particular node.

Identifying the IQ Panel 2+

The IQ Panel 2+ can be identified with the Indicator Command Class (0x87). Sending the Indicator Set command with Indicator ID Identify (0x50) and Property ID Binary (0x02) with Indicator Value On (0xFF)

Re-interviewing Z-Wave Devices

A device may be re-interviewed to get its latest status and functionalities.

1. On home menu, swipe down from the top of the screen. A pulldown menu should appear.
2. Press the SETTINGS icon.
3. Press the ADVANCED SETTINGS icon.
4. Press the Z-WAVE DEVICE LIST icon.
5. Press the ReInterview button for the appropriate Z-Wave device to be re-interviewed.

Enabling Secondary Controller Functionalities

1. On home menu, swipe down from the top of the screen. A pulldown menu should appear.
2. Press the SETTINGS icon.
3. Press the ADVANCED SETTINGS icon.
4. Enter in installer code.
5. Press the INSTALLATION icon.
6. Press the DEVICES icon.
7. Press the Z-WAVE DEVICES icon.
8. Press the Z-WAVE SETTINGS icon.
9. Scroll down until the Advanced Z-Wave Settings option appears
10. Check the Advanced Z-Wave Settings checkbox. This will enable the controller shift and learn mode functionality on the "Z-WAVE DEVICES" page.

Devices from Multiple Manufacturers in a Single Z-Wave Network

Products from different manufacturers and product types can be a part of the same Z-Wave network, and different non-battery powered devices can act as repeaters regardless of manufacturer.

SmartStart

SmartStart enabled devices can be securely included into the IQ Panel 2+'s Z-Wave network by scanning the Z-Wave QR Code present on the product. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.

1. On home menu, swipe down from the top of the screen. A pulldown menu should appear.
2. Press the SETTINGS icon.
3. Press the ADVANCED SETTINGS icon.

4. Enter in installer code.
5. Press the INSTALLATION icon.
6. Press the DEVICES icon.
7. Press the Z-WAVE DEVICES icon.
8. Press the SMARTSTART icon.
9. A QR code scanner will appear from the IQ Panel 2+'s camera. Scan in the QR code included on the SmartStart enabled device's documentation, physical device and/or packaging.
10. Press the Add button. This adds the SmartStart enabled device into the Provision List.
11. Power on the SmartStart enabled device. The device will attempt to securely include the device in the background, and the IQ Panel 2+ UI will be updated to reflect changes once inclusion completes.

SmartStart Provisioning List

A user may edit and/or remove devices from the SmartStart Provisioning List

1. On home menu, swipe down from the top of the screen. A pulldown menu should appear.
2. Press the SETTINGS icon.
3. Press the ADVANCED SETTINGS icon.
4. Enter in installer code.
5. Press the INSTALLATION icon.
6. Press the DEVICES icon.
7. Press the Z-WAVE DEVICES icon.
8. Press the PROVISIONING LIST icon
9. Press either the Edit icon to edit or the Trash Bin icon to delete devices from the Provisioning List

Note: Devices that are already included into the Z-Wave network must be excluded to remove their Provisioning List entry. The exclusion process will delete the entry from the Provisioning List.

Non-Standard Terms Used by IQ Panel 2+

- DELETE FAILED DEVICE = Remove Failed Node
- CLEAR DEVICE = Exclusion Mode
- REMOVE ALL DEVICES = Factory Reset Z-Wave Module / Reset Device Locally

SUPPORTED COMMAND CLASSES

COMMAND CLASS	VERSION	REQUIRED SECURITY CLASS
APPLICATION STATUS	1	None
ASSOCIATION	2	Highest granted Security Class
MULTI CHANNEL ASSOCIATION	3	Highest granted Security Class
MULTI COMMAND	1	Highest granted Security Class
ASSOCIATION GROUP INFORMATION	1	Highest granted Security Class
DEVICE RESET LOCALLY	1	Highest granted Security Class
MANUFACTURER SPECIFIC	2	Highest granted Security Class
VERSION	3	Highest granted Security Class
Z-WAVE PLUS INFO	2	None
CRC-16	1	None
MULTI COMMAND	1	None
SECURITY 0	1	None
SECURITY 2	1	None
SUPERVISION	1	None
TIME	1	None
TRANSPORT SERVICE	2	None
FIRMWARE UPDATE META DATA	5	Highest granted Security Class
NODE PROVISIONING	1	Highest granted Security Class
NETWORK MANAGEMENT INCLUSION	3	Highest granted Security Class
NETWORK MANAGEMENT PROXY	3	Highest granted Security Class
NETWORK MANAGEMENT BASIC	2	Highest granted Security Class
INCLUSION CONTROLLER	1	Highest granted Security Class
INDICATOR	3	Highest granted Security Class
POWERLEVEL	1	Highest granted Security Class

Note: The NODE PROVISIONING Command Class is only available when the IQ Panel 2+ is set as the SIS.