

Z-Wave Security and Configuration Details for Bolt Z-Wave

Bolt Z-Wave is a Z-Wave Plus® v2 security-enabled device that supports S2 encryption for secure communication. When paired with an S2-capable Z-Wave controller, it utilizes encrypted Z-Wave Plus v2 messages to ensure robust security across your smart home system.

Note : To fully access all security and functionality features, this device must be used with a Z-Wave controller that supports S2 security. If paired with a non-S2 controller, the lock will default to a lower security level to maintain backward compatibility with older Z-Wave networks.

Advanced Configuration

This section outlines the supported association groups and configuration parameters for advanced users who want to manually customize the lock's behavior.

Please refer to your Z-Wave controller or gateway documentation for detailed instructions on how to apply these settings.

Association Command Classes

Group ID	Maximum Nodes	Description	Function
1	5	Lifeline	DEVICE_RESET_LOCALLY_NOTIFICATION DOOR_LOCK_OPERATION_REPORT BATTERY_REPORT INDICATOR_REPORT NOTIFICATION_REPORT DOOR_LOCK_CONFIGURATION_REPORT USER_CODE_REPORT

Supported Command Classes

Command Class	Version	Not added	Nonsecur added	Securely 0 added		Securely 2 added	
				Nonsecure CC	Secure CC	Nonsecure CC	Secure CC
Command Class Association	2				Support		Support
Command Class Association Group Info	3				Support		Support
Command Class Basic	2				Support		Support
Command Class Battery	1				Support		Support
Command Class Device Reset Locally	3				Support		Support
Multi Channel Association	3				Support		Support
Command Class Door Lock	4				Support		Support
Firmware Update Meta Data	5				Support		Support
Command Class Indicator	3				Support		Support
Command Class Manufacturer Specific	2				Support		Support
Command Class Powerlevel	1				Support		Support
Command Class Security 0	1	Support	Support	Support		Support	
Command Class Security 2	1	Support	Support	Support		Support	
Command Class Supervision	1	Support	Support	Support		Support	
Command Class Transport Service	2	Support	Support	Support		Support	
Command Class User Code	4				Support		Support
Command Class Version	2				Support		Support
Command Class Z-Wave Plus Info	2	Support	Support	Support		Support	
Command Class Schedule Entry Lock	3				Support		Support
Command Class Configuration	4				Support		Support
Command Class Notification	8				Support		Support
Command Class Time	2	Support	Support	Support		Support	
Command Class Time Parameters	1				Support		Support

Identity Function

<i>Indicator ID</i>		<i>Property ID</i>	
Node Identify	0x50	On Off Period	0x03
		On Off Cycles	0x04
		On time within an On/Off period	0x05

Basic Command Classes

<i>Command Class</i>	<i>Value</i>	<i>Mapped</i>	<i>Value</i>	<i>Function</i>
Basic Set	0x00	Door Lock Operation Set	Door Unsecured	Open the door
	0xFF		Door Secured	Close the door
Basic Report	0x00	Door Lock Operation Report	Door Unsecured	The lock is opened
	0xFF		Door Secured	The lock is closed
Basic Get		Door Lock Operation Get		

Notification Command Classes

<i>Notification Type</i>	<i>Event</i>	<i>Alarm Reports</i>	<i>Description</i>
0x06	0x01	Manual Lock	Manual lock operation
0x06	0x02	Manual Unlock	Manual unlock operation
0x06	0x03	RF Operate Lock	RF lock operation
0x06	0x04	RF Operate Unlock	RF unlock operation
0x06	0x05	Keypad Lock	Keypad lock operation
0x06	0x06	Keypad Unlock	Keypad unlock operation
0x06	0x09	Auto Lock Operate Locked	Auto lock locked operation
0x06	0x0B	Lock jammed	Lock jammed
0x06	0x0C	All User Deleted	All user codes deleted
0x06	0x0D	User Deleted	Single user code deleted
0x06	0x0E	User Added	New user code added
0x06	0x0F	Duplicate Pin-code error	New user code not added due to duplicate code
0x06	0x10	Tamper Alarm	Keypad temporary disabled

How to Trigger Notifications

Event	Alarm Reports	Trigger Method
0x01	Manual Lock	Rotate thumbturn to Locked
0x02	Manual Unlock	Rotate thumbturn to Unlock
0x03	RF Operate Lock	RF lock operation
0x04	RF Operate Unlock	RF unlock operation
0x05	Keypad Lock	Locked via "ULTRALQ" button
0x06	Keypad Unlock	Unlock by entering user code via keyboard.
0x09	Auto Lock Operate Locked	Unlock first, and after waiting for 30 seconds, the device will Auto Lock.
0x0B	Lock jammed	In the unlocked state, press the Ultraloq relock button and manually hold the thumb turn to prevent it from rotating (simulating a jam). Once you hear two beeps, the jam has been triggered. At this point, a notification can be received.
0x0C	All User Deleted	Delete all user codes
0x0D	User Deleted	Delete single user code
0x0E	User Added	New user code added
0x0F	Duplicate Pin-code error	New user code not added due to duplicate code
0x10	Tamper Alarm	The password is entered incorrectly 5 consecutive times

Door Sensor Configurable Parameters

Param #	Setting	Values	Technical Description	Easy-to-Understand Explanation
1	Beeper	1 = Mute	Turns lock beeps on or off.	On (default): Lock makes sounds.
		0 = Unmute (default)		Off: Lock is silent.
2	Door-Closed Delay Mode	1 = Enable (Door Sensor Required)	Controls how the lock behaves after the door closes. Only applies if both Param 3 and 4 are enabled.	On: Lock relocks automatically when door closes.
		0 = Disabled (default)		Off (default): Stays unlocked until you lock it manually.
3	Auto-Lock Timer(s)	0 = Disabled auto-lock	Main switch. Defines delay (in seconds) before relocking.	Choose 5–1800 seconds (e.g., 60 = 1 minute).
		≥5 = delay before locking		Default = 30 seconds .
4	Door Sensor	0x01 = Enable	Enable to use door open/close state for auto-lock behavior	On: Sensor knows if door is open/closed.
		0x00 = Disabled (default)		Off (default): Sensor not used.
5	Door Left Open Status Set	0-100 (default 0)	Record "door ajar" position.	Leave the door left ajar, set a value different from the current one to read and save the "door-ajar" status (e.g., if default is 0, set any value between 1-100).
6	Door Closed Status Set	0-100 (default 0)	Record "door closed" position.	With the door fully closed, set a value different from the current one to read and save the "door-closed" status (e.g., if default is 0, set any value between 1-100).
7	Door Opened Status Set	0-100 (default 0)	Record "door open" position.	With the door fully open, set a value different from the current one to read and save the "door-open" status (e.g., if default is 0, set any value between 1-100).
8	Anti-Peep Keypad	0x01 = Enable	Allows entry of up to 16 digits including random numbers.	On: Lets you add random numbers before/after your real PIN (extra security).
		0x00 = Disabled (default, required for Alarm.com)		Off (default): Normal PIN entry.
9	Door Left Open Alarm Delay	0 = Disabled	Alarm sounds if door left open beyond set time.	On: Choose delay (5–255 seconds). Default = 5 seconds .
		5-255 (default 5)		Off: No alarm if door is left open.

Overview

Three configuration parameters control how the lock automatically relocks:

The Auto-Lock feature on the Bolt Z-Wave lock automatically secures the door after it is closed or after a preset delay, enhancing both convenience and safety. It operates based on three parameters—Door-Closed Delay Mode (Param 2), Auto-Lock Timer(s) (Param 3), and Door Sensor (Param 4)—which work together to determine when and how the lock engages. Depending on the configuration, the lock can relock instantly upon door closure or after a user-defined countdown, ensuring your door is never left unsecured unintentionally.

Param #	Setting	Function
2	Door-Closed Delay Mode	Controls how the lock behaves after the door closes. Only applies if both Param 3 and 4 are enabled.
3	Auto-Lock Timer(s)	Main switch. Defines delay (in seconds) before relocking.
		0 = Off, ≥ 5 = Enable Auto-Lock.
4	Door Sensor	Enables the door magnetic sensor used to detect open/closed state.

Rule Set

1. Auto-Lock Timer(s) (Param 3) is the master control.

- 0 → No auto-lock in any case.
- $\geq 5s$ → Auto-lock logic active.

2. Door Sensor (Param 4) determines whether the lock reacts to door state.

- 0 = Disabled → door ignored.
- 1 = Enabled → door open/close events used.

3. Door-Closed Delay Mode (Param 2) only takes effect when both:

- Param 3 ≥ 5 and Param 4 = 1.
- Otherwise it is ignored.

Behavior Matrix

1. Door Sensor Enabled (Param 4 = 1)

Auto Relock (Param 2)	Auto Lock Timing (Param 3)	User Experience
0	0	No auto-lock – manual operation only.
0	≥ 5	Locks immediately after the door closes.
1	0	No auto-lock.
1	≥ 5	Locks N seconds after the door closes (close → countdown → lock). Reopening resets timer.

2. Door Sensor Disabled (Param 4 = 0)

<i>Auto Relock (Param 2)</i>	<i>Auto Lock Timing (Param 3)</i>	<i>User Experience</i>
0	0	No auto-lock.
0	≥ 5	Locks after N seconds from unlock, regardless of door position.
1	0	No auto-lock.
1	≥ 5	Locks after N seconds from unlock – door sensor not required.

Quick Setup Scenarios

<i>Use Case</i>	<i>Param 2</i>	<i>Param 3</i>	<i>Param 4</i>	<i>Result</i>
Manual Only	0	0	0	Lock/unlock manually.
Timer Auto-Lock (No Sensor)	0	30	0	Locks 30 s after unlock, door ignored.
Instant Lock on Close	0	30	1	Locks immediately (~2 s) after the door closes.
Smart Auto-Lock (Delay after Close)	1	30	1	Locks 30 s after the door closes.

Need Help?

For technical documents and more

Please visit support.ultralq.com or call 1-844-439-8832