

Schlage Connect Smart Deadbolt Door Locks BE468ZP and BE469ZP

Version: 0.4

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1. Introduction

Schlage Connect Smart Deadbolt Locks are electronic deadbolt locks with Z-Wave Plus Communication.

BE468ZP and BE469ZP locks must be used in conjunction with a Security Enabled Z-Wave Controller to fully utilize all implemented functions.

BE468ZP and BE469ZP lock supports the original Z-Wave Security Standard S0 and the new Security Standard S2 with SmartStart enabled and can be part of any Z-Wave network with other Certified Z-Wave or Z-Wave Plus products.

2. Features

The lock comes with two styles – Camelot and Century and different Finishes.

2.1. Styles

Camelot Style



Outside Escutcheon



Deadbolt



Inside Escutcheon

Century Style



Outside Escutcheon



Deadbolt



Inside Escutcheon

2.2. Finish

Bright Brass



Satin Nickel



Matte Black



Bright Chrome



Aged Bronze



3. Z-Wave Specification

4.1 Model BE468ZP

- Z-Wave hardware platform: ZM5101
- Z-Wave version: 6.81.02
- Z-Wave library type: 0x06 Routing Slave
- Z-Wave Role Type: Listening Sleeping Slave
- Z-Wave Device Type: Door Lock Keypad
- Associated Category: Lock
- Z-Wave Plus: Yes
- Security S2 Classes: S2 Access Control
- SmartStart Compatible: Yes
- Manufacturer ID: 0x003B
- Product Type ID: 0x0001
- Product ID: 0x0468

4.2 Model BE469ZP

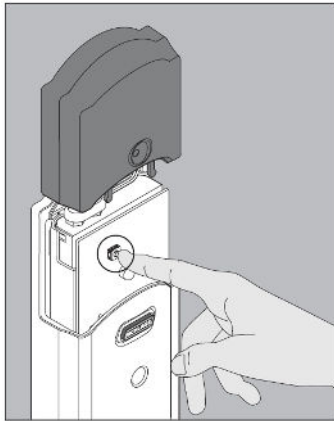
- Z-Wave hardware platform: ZM5101
- Z-Wave version: 6.81.02
- Z-Wave library type: 0x06 Routing Slave
- Z-Wave Role Type: Listening Sleeping Slave
- Z-Wave Device Type: Door Lock Keypad
- Associated Category: Lock
- Z-Wave Plus: Yes
- Security S2 Classes: S2 Access Control
- SmartStart Compatible: Yes
- Manufacturer ID: 0x003B
- Product Type ID: 0x0001
- Product ID: 0x0469
- Built-in Alarm Technology senses movement of the door and allows this residential lock with alarm to alert homeowners with an audible alert as well as Z-Wave Notification

4. Network Management Instructions:

5.1 Add to Network

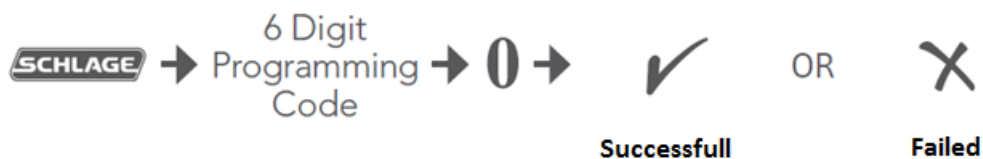
One-button Add lock to Z-Wave Network (Inclusion)

1. Place your Z-Wave Controller into the “Add” or Inclusion Mode (Refer the respective documentation for that specific home automation system or panel device for details).
2. Remove the battery cover.
3. Press then release button as shown in the image to the left. (Or – perform an alternate method mentioned below**)
4. An LED will flash amber indicating the “Add” or Inclusion process is in progress.
 - If the Security Scheme is S2, Use the DSK of the lock at the Z-Wave Controller
5. When a green LED turns ON, the “Add” or Inclusion has completed successfully.
6. If a red LED turns ON, try repeating steps 1-3



**Alternate Method to Add lock to Z-Wave Network (Inclusion)

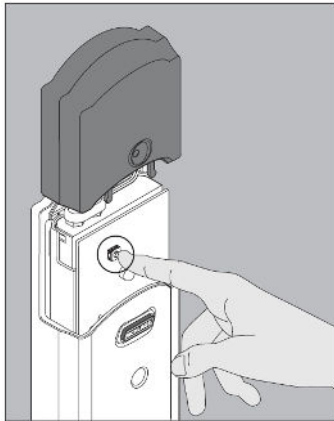
Extend the bolt on the lock and then perform the following:



5.2 Remove from Network

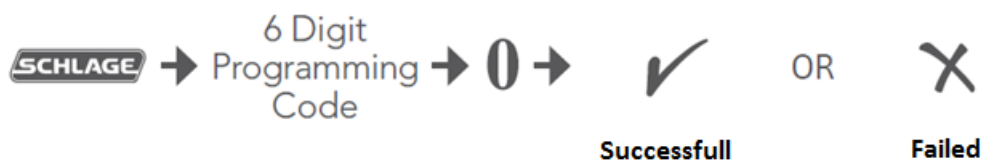
One-button Remove lock from Z-Wave Network (Exclusion)

1. Place your Z-Wave Controller into the “Remove” or Exclusion Mode (Refer the respective documentation for that specific home automation system or panel device for details).
2. Remove the battery cover.
3. Press then release button as shown in the image below. (Or – perform an alternate method mentioned below**)
4. An LED will flash amber indicating the “Remove” or Exclusion process is in progress.
5. When a green LED Flashes 3 times, the “Remove” or Exclusion process is completed successfully.
6. If a red LED turns ON, try repeating steps 1-3



**Alternate Method to Add lock to Z-Wave Network (Exclusion)

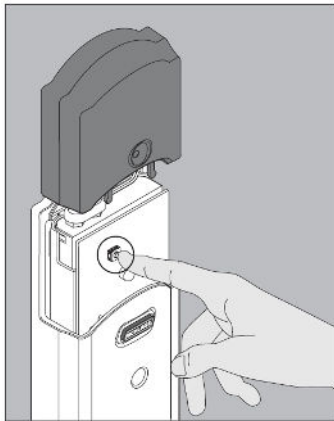
Extend the bolt on the lock and then perform the following:



5.3 Factory Reset of the Lock

Steps for Factory Default Reset

1. Remove the battery cover
2. Press and hold the button as shown in the image below for 7 (seven) seconds.
While holding the button pressed, after 1 sec LED will be lit for 2 sec. and turn OFF; continue to press hold the button for about 7 sec. till the LED will be lit again and release the button.
3. The inside Schlage button will blink red three times and the green check on the touchscreen will blink if the Factory Default Reset is successful.
4. If you are moving the lock to a new door, install the lock on that door before continuing.
5. To check that the lock was reset, press the Schlage Button and enter one of the Default User Codes.
If the reset was successful, the Default User Codes will unlock the deadbolt.



5.4 SmartStart

BE468ZP and BE469ZP locks are SmartStart enabled Z-Wave Plus locks and can be automatically included with a SmartStart enabled Z-Wave Plus Controller on power up.

5. Command Classes supported:

Command Class	Ver.	Support/ Control	Listed in NIF	Secured Added	
				Non- Secured Command Class	Secured Command Class
Anti-theft	2	S			
Application Status	1	S			✓
Association	2	S			✓
Association Group Information	1	S			✓
Basic	1	S			✓
Battery	1	S			✓
Configuration	1	S			✓
Device Reset Locally	1	S			✓
Door Lock	2	S			✓
Firmware Update Meta data	3	S			✓
Indicator	1	S			✓
Manufacturer Specific	1	S		✓	✓
Notification	8	S			✓
Power level	1	S			✓
Schedule Entry Lock	3	S			✓
Security 0	1	S	✓	✓	
Security 2	1	S	✓	✓	
Supervision	1	S & C	✓		✓
Time	1	S & C	✓		✓
Transport Service	2	S	✓	✓	
User Code	1	S			✓
Version	2	S			✓
Z Wave Plus Info	2	S	✓	✓	

6.1 Anti-theft Command Class V2

Refer Z-Wave Application Command Class Specification

When the Anti-Theft is enabled in the lock, if the lock is tried to Add (included) again with any network again, the lock would show only the following Command Classes as supported after the secured inclusion, till the Anti-Theft is Set as Disabled using the right Magic Code.

- Anti-theft
- Battery
- Manufacturer Specific
- Version

Note: After completing the Anti-Theft Set – Disable to use the lock, Power Reset of the lock is required.

6.2 Application Status Command Class V1

Refer Z-Wave Management Command Class Specification

6.2.1 Application Busy Command

If a Z-Wave command to unlock or lock the bolt while the keypad is active, the lock responds with an Application Busy Command to indicate that it cannot currently process that request. Note that other Z-Wave commands are processed normally even when the keypad is active. The status sent is always 0x00 (try again later).

This command is sent when the lock was woken up by manual operation from its sleep state, be it by keypad, Thumb turn, or inside Schlage button. The Busy status will be sent to Z-wave Controller till the local operation on the lock is in progress. However, Z-Wave Controller can retry typically after 30 sec. after receiving the Application Busy Status.

6.2.2 Application Rejected Request Command

The lock would send the Application Reject Request Command in case of Z Wave Controller trying to disable the Power Management (Battery Notifications) by Notification Command Class as these notifications cannot be disabled.

6.3 Association Command Class V2

Refer Z-Wave Management Command Class Specification

The association command class is used to create association groups which allow the lock to push unsolicited notifications (notifications, door lock state changes, etc.) to the gateway, bridge or other device. Associated Command classes issue unsolicited reports upon change of state.

The following command classes are associated for unsolicited reports:

1. Battery
2. Configuration (only select parameters, for a list of which parameters will be reported on change)
3. Device Reset Locally Notification
4. Door Lock (Door Lock Operation Report Command)
5. Notifications (only those with status = active, for a list of notification with status active by default)
6. User Code

Max Nodes Supported for each Grouping Identifier

Grouping Identifier	Max Nodes Supported
1 (Lifeline)	2

As per the Command Class Specification, the lock shall respond to any group ID as if it were the first (and only) group.

6.4 Association Group Information Command Class V1

Refer Z-Wave Management Command Class Specification

6.4.1 Association Group Name

Parameter	Value
Grouping Identifier	0x01
Name Length	0x09
Group Name	"Lifeline"

6.4.2 Association Group Info

Parameter	Value
Grouping ID	0x01
Mode	0x00
Profile	0x0001 (AGI_PROFILE_GENERAL, AGI_GENERAL_LIFELINE)
Reserved	0x00
Event Code	0x0000

6.4.3 Association Group Command List

Parameter	Value
List Length	5 Commands
Command Class 1	0x80 (COMMAND_CLASS_BATTERY)
Command Class 1 Command	0x03 (BATTERY_REPORT)
Command Class 2	0x70 (COMMAND_CLASS_CONFIGURATION)
Command Class 2 Command	0x06 (CONFIGURATION_REPORT)
Command Class 3	0x5A (COMMAND_CLASS_DEVICE_RESET_LOCALLY)
Command Class 3 Command	0x01 (DEVICE_RESET_LOCALLY_NOTIFICATION)
Command Class 4	0x71 (COMMAND_CLASS_NOTIFICATION)
Command Class 4 Command	0x05 (NOTIFICATION_REPORT)
Command Class 5	0x63 (COMMAND_CLASS_USER_CODE)
Command Class 5 Command	0x03 (USER_CODE_REPORT)
Command Class 6	0x62 (COMMAND_CLASS_DOOR_LOCK)
Command Class 6 Command	0x03 (DOOR_LOCK_OPERATION_REPORT)

6.5 Basic Command Class V1

6.5.1 Basic Set Command

As per Section 5.6.4.3.1.1 of SDS10242-29 Z-Wave Device Class Specification, Basic Set Command is ignored (no action taken) to avoid unintentional lock operation.

6.5.2 Basic Report

Basic Values Reported

Value	Description
0x00	Unsecured
0x01 – 0xFD	Unsupported
0xFE	Unknown/Unhanded
0xFF	Secure

6.6 Battery Command Class V1

Refer Z-Wave Management Command Class Specification

The level is reported from 0 – 100%. 0% coincides with dead batteries and the lock does not operate once it reaches this level.

This battery level report is sent automatically approximately once per day to the nodes in the association group.

6.7 Configuration Command Class V1

Refer Z-Wave Application Command Class Specification.

Refer your controller or gateway documentation for directions to set these parameters.

The configuration class is used to read and write values to configure the lock. The table below defines the values used for these parameters. The read/write column indicates whether the parameters are read/write or read only. Any attempt to set a read only parameter is ignored. Any attempt to read a non-implemented parameter is ignored.

Param #	Discription	Read / Write	Size	Config Value	Value	Value Description	Association
0x00 – 0x02	Reserved	N/A	N/A	N/A	N/A	N/A	N/A

Param #	Discription	Read / Write	Size	Config Value	Value	Value Description	Association
0x03	Beeper	R/W	1	1	0x00	Disable Beeper	Yes
					0xFF	Enable Beeper	
0x04	Vacation Mode	R/W	1	1	0x00	Disable Vacation Mode	Yes
					0xFF	Enable Vacation Mode	
0x05	Lock & Leave	R/W	1	1	0x00	Disable Lock & Leave	Yes
					0xFF	Enable Lock & Leave	
0x06	User Slot Bit Field (Occupied slots)	R	4	1	0x00 – 0xFF	User Slots 8 – 1 (MSB – LSB) 8,7,6,5,4,3,2,1	No
				2	0x00 – 0xFF	User Slots 16 – 9 (MSB – LSB) 16,15,14,13,12,11,10,9	
				3	0x00 – 0xFF	User Slots 24 – 17 (MSB – LSB) 24,23,22,21,20,19,18,17	
				4	0x00 – 0xFF	User Slots 30 – 25 (MSB – LSB) X,X,30,29,28,27,26,25	
0x07	Lock Specific Alarm Mode (BE469ZP only)	R/W	1	1	0x00	Alarm Off	Yes
					0x01	Alert	
					0x02	Tamper	
					0x03	Forced Entry	
					0x04– 0xFF	Reserved	
0x08		R/W	1	1	0x00	Not supported	Yes

Param #	Discription	Read / Write	Size	Config Value	Value	Value Description	Association
	Lock Specific Alarm Alert Sensitivity (BE469ZP only)				0x01	Most Sensitive	
					0x02		
					0x03	Medium Sensitivity	
					0x04		
					0x05	Least Sensitive	
					0x06 – 0xFF	Reserved	
0x09	Lock Specific Alarm Tamper Sensitivity (BE469ZP only)	R/W	1	1	0x00	Not supported	Yes
					0x01	Most Sensitive	
					0x02		
					0x03	Medium Sensitivity	
					0x04		
					0x05	Least Sensitive	
					0x06 – 0xFF	Reserved	
0x0A	Lock Specific Alarm Kick Sensitivity (BE469ZP only)	R/W	1	1	0x00	Not supported	Yes
					0x01	Most Sensitive	
					0x02		
					0x03	Medium Sensitivity	
					0x04		
					0x05	Least Sensitive	
					0x06 – 0xFF	Reserved	

Param #	Discription	Read / Write	Size	Config Value	Value	Value Description	Association
0x0B	Lock Specific Alarm Disable—Local Controls (BE469ZP only)	R/W	1	1	0x00	Disable Local Control (Disables local alarm on/off, mode change, sensitivity changes)	No
					0xFF	Enable Local Control (Enables local alarm on/off, mode change, sensitivity changes)	
0x0C	Get Electronic Transition Count	R	4	1 – 4	0x00000000 – 0xFFFFFFFF	Electronic Transition Count – A transition is locked to unlocked or unlocked to locked	No
0x0D	Get Mechanical Transition Count	R	4	1 – 4	0x00000000 – 0xFFFFFFFF	Mechanical Transition Count – A transition is locked to unlocked or unlocked to locked	No
0x0E	Get Electronic Failed Count	R	4	1 – 4	0x00000000 – 0xFFFFFFFF	Electronic Failed count – each failed attempt increments this count by one	No
0x0F	Auto Lock	R/W	1	1	0x00	Disable Auto Lock	Yes
					0xFF	Enable Auto Lock	
0x10	User Code PIN Length	R/W	1	1	0x04 – 0x08	User Code PIN length, a value between 4 and 8 (default 4)	Yes
0x11	Get Electrical High Preload Transition Count	R	4	1-4	0x00000000 – 0xFFFFFFFF	Electronic High Preload Transition Count – a subset of 0x0C above – transitions that occurred with high preload	No

Param #	Discription	Read / Write	Size	Config Value	Value	Value Description	Association
0x12	Get Bootloader Version	R	1	1	0x00 – 0xFF	Get the version of the bootloader	No

6.8 Device Reset Locally Notification Command Class V1

Refer Z-Wave Management Command Class Specification

Lock will indicate the Z Wave plus Controller that it is going to reset when the FDR is initiated. After sending out this notification Lock erases the Node ID and Home Id and rest of the configurations to return to Factory State.

Refer the section [4.3 Factory Reset of the Lock](#)

6.9 Door Lock Command Class V2

Refer Z-Wave Application Command Class Specification

Door Lock Mode

Value	Description
0x00	Unsecured
0x01 – 0xFD	Unsupported
0xFE	Unknown/Unhanded
0xFF	Secured

Both fields Lock Timeout Minutes and Lock Timeout Seconds report 0xFE (unsupported) as this feature is not included. The operation type field always reports 0x01 (constant operation). A separate auto lock feature can be enabled by configuration parameter. Door handle modes and door condition are not supported and always report as 0x00.

6.10 Firmware Update Meta Data Command Class V3

Refer Z-Wave Management Command Class Specification

Parameter	Value
Manufacturer ID	0x003B
Firmware 0 ID	0x4690
Firmware Upgradable	0xFF
Number of Firmware Targets	0x01
Max Fragment Size	0x1C
Firmware 1 ID	0x4691

Parameter	Value
Wait Time	0x003C (For Host Processor firmware upgrade) 0x00FC (For ZM5101-Wave firmware upgrade)

6.11 Manufacturer Specific Command Class V1

Refer Z-Wave Management Command Class Specification

Parameter		Value
Manufacturer ID		0x003B
Product Type ID (BE469ZP)		0x0001
Product ID	BE468ZP	0x0468
	BE469ZP	0x0469

6.12 Notification Command Class V8

Refer Z-Wave Application Command Class Specification

Refer Z-Wave Notification Command Class, list of assigned Notifications

The table below contains all the version 3 alarm types supported by the lock which is a subset of the types supported by the command class standard. All values not included in the table are unsupported or reserved.

Z-Wave Notification Type		Z-Wave Alarm Event		Description	Default Status
Access Control	0x06	Manual Lock Operation	0x01	Device transitioned to the locked state due to manual interaction	Active
		Manual Unlock Operation	0x02	Device transitioned to the unlocked state due to manual interaction	
		RF Lock Operation	0x03	Device transitioned to the locked state due to Z-Wave Door Lock Command interaction	
		RF Unlock Operation	0x04	Device transitioned to the unlocked state due to Z-Wave Door Lock Command interaction	
		Keypad Lock Operation	0x05	Device transitioned to the locked state due to keypad interaction	

Z-Wave Notification Type		Z-Wave Alarm Event		Description	Default Status
		Keypad Unlock Operation	0x06	Device transitioned to the unlocked state due to keypad interaction	
		Auto Lock Locked Operation	0x09	Device automatically returned to the locked state by the auto lock function	
		Lock Jammed	0x0B	Lock could not reach the desired position after three attempts. This is also sent if the lock is moved to an unknown region with the thumb turn. This is the general bolt movement error message.	
		Keypad temporarily disabled	0x10	Four invalid user codes were entered. The lock disables the keypad for 30 seconds.	
		New program code entered	0x12	Indicates that the programming code was manually reprogrammed at the lock	
Power Management	0x08	Replace battery soon	0x0A	Sent once when lock transitions to low battery	Active
		Replace battery now	0x0B	Sent once when lock transitions to critical battery (lock will no longer operate)	
System	0x09	System HW Failure	0x01	A HW fault is detected in the lock	Active

- For Keypad Lock/Unlock Operation Notifications, the event parameter sent is the user code that was accepted at the lock. In the case of a lock and leave operation, then no event parameter is sent. All notifications are version 3.
- The lock busy notification is not sent; the application status command class is used instead.
- The notification set command allows the different notification types to be enabled or disabled. Setting the status to 0x00 disables and 0xFF enables that alarm type. See **Error! Reference source not found.** table for the default state of each notification.
- The Power Management Notifications cannot be disabled for the product. If attempted to disable, Application Reject Request Command will be sent from the Lock. Notification Get Command
- An alarm report is sent to the nodes in the association group when the event occurs if it is enabled. All fields (including Notification Type and Notification Level) are set to 0x00. Only fields included in the above **Error! Reference source not found.**
- If the lock was unable to move to the desired position, the lock responds with a “lock jammed” notification.
- **Keypad Temporarily Disabled** - The only other persistent notification event is Keypad Temporarily Disabled (4 invalid user codes were entered). This event will expire after 30 seconds. There is no way to remotely clear this event.
- **Replace Battery Soon and Replace Battery Now** notifications - The persistent notification event is replacing battery soon or replaces battery now. When battery level is below 20%, the notification event Replace Battery Soon or Replace Battery Now will be sent unsolicited. These are persistent notifications and will continue to be sent approximately once per day until the batteries have been replaced. This event cannot be cleared remotely.

6.13 Power level Command Class V1

Refer Z-Wave Network Command Class Specification

6.14 Schedule Entry Lock Command Class V3

Refer Z-Wave Application Command Class Specification

- The Lock supports Scheduling mechanism for the User Codes configurable from the Z Wave Controller. The Scheduling Command Class can get or set the Scheduled User Codes only if the Lock time is synchronized with the Z Wave Network.
- Locks supports up to 30 user codes. Each User Code can have up to 2 Slots of Schedules.
- Week Days Schedules are not supported; however, such application can be achieved with Daily Repeating Scheduling with one-day bitmask for one of the Daily repeating Schedule

- Once a Regular User Code of All-time Access (Default) is assigned with a Schedule, it cannot be made again as All-time Access User Code by clearing the Schedule assigned to it. The Scheduled User Code should be either deleted and freshly added back to lock or assigned with an All-time Access Schedule explicitly by using Daily Repeating Schedule with All days selected and start 00:00 Hrs. to end 23:59 Hrs.

6.15 Security 0 Command Class V1

Refer Z-Wave Transport-Encapsulation Command Class Specification

Schlage Connect locks support S2 security with Access Control security level.

6.16 Security 2 Command Class V1

Refer Z-Wave Transport-Encapsulation Command Class Specification

6.17 Supervision Command Class V1

Refer Z-Wave Transport-Encapsulation Command Class Specification

- This Command Class has Support and Control provision on the lock.

Supervision Command Class is Mandatory Command Class for the Z Wave Plus. It allows to send the next commands without waiting for the first command, and update the status response when available. This reduces the network bandwidth and improves the system performance.

Support Command Class by Lock with Supervision Command Class are:

- Configuration
- Notification
- User Code
- Door Lock (implemented)
- Indicator CC

This is also used by lock for the reliable communication of the Unsolicited Reports and Notifications communicated to the Z-Wave Controllers with S2 security for the communication Controlling Command Class from the Lock are:

- Battery
- Configuration
- Device Reset Locally
- Notification
- User Code
- Door Lock

6.18 Time Command Class V1

Refer Z-Wave Application Command Class Specification

- This Command Class has Support and Control provision on the lock.
- The Time Command Class is required to provide the Network Time for the lock to support the User Code Access Scheduling.

- Note: At Power Up the Lock is assigned with Default Time (1st Jan 2000) and once the Lock is included in the secured Z Wave Network, it will use the Time Command services to get the Network Controller Time. Lock will keep synchronizing every 24 Hrs. with the Z-Wave Controller.

6.19 Transport Service Command Class V2

Refer Z-Wave Transport- Service Command Class Specification

6.20 User Code Command Class V1

Refer Z-Wave Application Command Class Specification

- The lock supports user codes between 4 and 8 digits in length. All the codes in the lock must be the same length. This length is configurable with the configuration command class.
- If a user code is received that contains an improper number of digits (6 when the lock supports 4, for example) the lock returns a user ID status of 0xFE and does not modify the contents of that user code. When a code is “master like,” the lock will respond with a status of 0x02.
- The user id status is used to indicate the future desired state of the slot. To add a user code, the status is set to 1. To clear the user code, the status is set to 0. Setting the status to 0 and the user identified to 0 clears all of the codes in the lock.
- The report always returns a 10-digit user code of all 0x2A (asterisks in ASCII) if the slot is filled. This is done for security purposes as the desire is to not transfer user codes over the air. In all other cases, the user code report is generated without populating the user code fields.
- The lock supports 30 users. [Combination of All time Access and Scheduled Access]

6.21 Version V2

Refer Z-Wave Management Command Class Specification

Parameter	Value
Z-Wave Library Type	0x06 (Routing Slave)
Z-Wave Protocol Library Version	0x06
Z-Wave Protocol Library Sub Version	0x03
Firmware 0 Version (ZW ASIC)	0x03
Firmware 0 Sub Version (ZW ASIC)	0x01
Hardware Version	0x03
Number of firmware targets	0x01
Firmware 1 Version (Host)	0x0A

Firmware 1 Sub Version (Host)	0x0A
-------------------------------	------

- The lock reports the version as per the table in Supported Command Classes in section 5. All versions that are not indicated otherwise are version 1. If the command class is not contained in the table, the lock returns 0x00 for the version.

6.22 Z Wave Plus Info V2

Refer Z-Wave Management Command Class Specification

Parameter	Value
Z Wave Plus Version	0x01
Role Type	0x07 (ROLE_TYPE_SLAVE_SLEEPING_LISTENING)
Node Type	0x00 (NODE_TYPE_ZWAVEPLUS_NODE)
Installer Icon Type	0x0300 (ICON_TYPE_GENERIC_DOOR_LOCK_KEYPAD)
User Icon Type	0x0300 (ICON_TYPE_GENERIC_DOOR_LOCK_KEYPAD)

6.23 Indicator Command Class V1 (*BE469ZP model only)

Refer Z-Wave Application Command Class

The Z-Wave Controller can Turn ON or OFF the Buzzer on the Z-Wave lock using Indicator Set Command Class. Once the Buzzer is turned ON with Indicator Set command, the Audible sound will be ON for 30 seconds or the Indicator Set command to Turn OFF.

Indicator Set Values:

Value	Description
0x00	Buzzer OFF
0xFF	Buzzer ON