



Z-Wave and Z-Wave Long Range 700/800 SDK 7.17.2.0 GA Gecko SDK Suite 4.0 March 9, 2022

Z-Wave and Z-Wave Long Range 700/800 are designed to meet the demands of the future smart home, where increasing needs for more sensors and battery-operated devices require both long range and low power. Context-aware environments are the next evolution in the smart home market, and they require technologies that have been optimized specifically for these applications.

100% Interoperable: Every product in the Z-Wave ecosystem works with every other product, regardless of type, brand, manufacturer or version. No other smart home/IoT protocol can make this claim.

Best-In-Class Security: Z-Wave's Security 2 (S2) framework provides end-to-end encryption and the most advanced security for smart home devices and controllers. Homes with S2 Z-Wave devices are virtually un-hackable.

SmartStart Easy Installation: SmartStart radically simplifies the installation of smart devices by using QR code scans for uniform, trouble-free setup. Devices and systems can be pre-configured dramatically easing deployments.

Backwards-Compatible: Z-Wave certification mandates backward-compatibility. The first Z-Wave devices on the market, more than ten years old, still perform as intended in networks with the latest Z-Wave technologies.

For more information about the certification status of Z-Wave and Z-Wave Long Range 700/800 SDK v7.17.2 GA, see section [9 Product Life Cycle and Certification](#).

These release notes cover SDK version(s):

7.17.2.0 GA released March 9, 2022

7.17.1.0 Pre-Certified GA released January 28, 2022

7.17.0.0 Pre-Certified GA released December 15, 2021

Compatibility and Use Notices

For more information about security updates and notices, see the Security chapter of the Gecko Platform Release notes installed with this SDK or on the [Silicon Labs Release Notes page](#). Silicon Labs also strongly recommends that you subscribe to Security Advisories for up-to-date information. For instructions, or if you are new to the Z-Wave 700/800 SDK, see [8 Using This Release](#).



KEY FEATURES

- Z-Wave 800 - Lower power compared to 700
 - 55 % reduction in Rx current
 - 35% reduction in Tx current
- Z-Wave 800 – Longer range compared to 700
 - Integrated +20 dBm PA
 - 9 dBm sensitivity improvement for Z-Wave Mesh
 - 3 dBm sensitivity improvement for Z-Wave Long Range
- Z-Wave 800 – Best-in-class security
 - S2 and Secure Vault
- Underlying architecture changed to component-based design
- New features improving application development

Contents

1	Supported Radio Boards	5
2	Z-Wave Protocol	6
2.1	New Items	6
2.2	Improvements	6
2.3	Fixed Issues	6
	Z-Wave controller not ACKing Routed Ack during OTA due to a race condition in the protocol task	6
2.4	Known Issues in the Current Release	7
2.5	Deprecated Items	7
2.6	Removed Items	7
3	Z-Wave Plus V2 Application Framework	8
3.1	New Items	8
3.2	Improvements	8
3.3	Fixed Issues	8
3.4	Known Issues in the Current Release	8
3.5	Deprecated Items	8
3.6	Removed Items	8
4	Certified Applications	9
4.1	Door Lock Key Pad	9
4.1.1	New Items	9
4.1.2	Improvements	9
4.1.3	Fixed Issues	9
4.1.4	Known Issues in the Current Release	9
4.1.5	Deprecated Items	9
4.1.6	Removed Items	9
4.2	LED Bulb	9
4.2.1	New Items	9
4.2.2	Improvements	9
4.2.3	Fixed Issues	9
4.2.4	Known Issues in the Current Release	9
4.2.5	Deprecated Items	10
4.2.6	Removed Items	10
4.3	Power Strip	10
4.3.1	New Items	10
4.3.2	Improvements	10
4.3.3	Fixed Issues	10
4.3.4	Known Issues in the Current Release	10

4.3.5	Deprecated Items	10
4.3.6	Removed Items	10
4.4	Sensor PIR	10
4.4.1	New Items	10
4.4.2	Improvements	10
4.4.3	Fixed Issues	10
4.4.4	Known Issues in the Current Release	11
4.4.5	Deprecated Items	11
4.4.6	Removed Items	11
4.5	Switch On/Off	11
4.5.1	New Items	11
4.5.2	Improvements	11
4.5.3	Fixed Issues	11
4.5.4	Known Issues in the Current Release	11
4.5.5	Deprecated Items	11
4.5.6	Removed Items	11
4.6	Wall Controller	12
4.6.1	New Items	12
4.6.2	Improvements	12
4.6.3	Fixed Issues	12
4.6.4	Known Issues in the Current Release	12
4.6.5	Deprecated Items	12
4.6.6	Removed Items	12
5	Pre-Certified Applications	13
5.1	Multilevel Sensor	13
5.1.1	New Items	13
5.1.2	Improvements	13
5.1.3	Fixed Issues	13
5.1.4	Known Issues in the Current Release	13
5.1.5	Deprecated Items	13
5.1.6	Removed Items	13
6	Serial API Bridge Controller	14
6.1	New Items	14
6.2	Improvements	14
6.3	Fixed Issues	14
6.4	Known Issues in the Current Release	14
6.5	Deprecated Items	14

6.6 Removed Items14

7 Important Changes.....15

7.1 Command Classes.....15

7.2 Association Group Information for Lifeline15

7.3 Network Learn Mode.....15

7.4 Queue Notifying15

8 Using This Release.....16

8.1 Installation and Use.....16

8.2 Security Information16

8.3 Support.....17

9 Product Life Cycle and Certification18

10 Legal21

10.1 Disclaimer21

10.2 Trademark Information.....21

1 Supported Radio Boards

This section describes the radio boards supported by the certified and pre-certified applications for 700 and 800 Series, respectively.

Table 1-1. Supported Radio Boards.

Series	Radio Board	Description	Applications
800	BRD4204B	EFR32ZG23: ZW-LR, SoC & 14 dBm	Serial API using BRD4001A
800	BRD4204C	EFR32ZG23: ZW-LR, SoC, 14 dBm & Secure Vault High	Serial API using BRD4001A
800	BRD4204D	EFR32ZG23: ZW-LR, SoC, 14 dBm, Secure Vault High & external 32kHz crystal mounted	Serial API using BRD4001A
800	BRD4205A	ZGM230SA: ZW-LR, SiP & 14 dBm & Secure Vault Mid	Applications using BRD4001A/BRD8029A
800	BRD4205B	ZGM230SB: ZW-LR, SiP, 14 dBm & Secure Vault High	Applications using BRD4001A/BRD8029A
800	BRD4210A	ZGM230S: ZW-LR, SiP, 20 dBm & Secure Vault High	Applications using BRD4001A/BRD8029A
700	BRD4200A	ZGM130S: SiP & 14 dBm	Applications using BRD4001A/BRD8029A
700	BRD4201A	EFR32ZG14: SoC & 14 dBm	Serial API using BRD4001A
700	BRD4202A	ZGM130S: SiP, 14 dBm & no SAW filters	Applications using BRD4001A/BRD8029A
700	BRD4206A	EFR32ZG14: ZW-LR, SoC & 14 dBm	Serial API using BRD4001A
700	BRD4207A	ZGM130S: ZW-LR, SiP & 14 dBm	Applications using BRD4001A/BRD8029A
700	BRD4208A	EFR32ZG14: ZW-LR, SoC & 20 dBm	Serial API using BRD4001A
700	BRD4209A	ZGM130S: ZW-LR, SiP & 20 dBm	Applications using BRD4001A/BRD8029A

The applications in the above table need a radio board in combination with BRD4001A – Wireless Starter Kit Mainboard (WSTK) and BRD8029A – Buttons and LEDs Expansion Board. The Serial APIs in the above table only need a radio board and a BRD4001A – Wireless Starter Kit Mainboard (WSTK). Refer to *INS14278: How to Use Certified Apps* and *INS14816: How to Use Pre-Certified Apps*, for details.

ZW-LR indicate that the radio board supports both Z-Wave and Z-Wave Long Range. 14/20 dBm indicates the transmit power of the radio board. Secure Vault is an industry-leading suite of state-of-the-art security features that address escalating Internet of Things (IoT) threats.

2 Z-Wave Protocol

2.1 New Items

The Gecko Software Development Kit version 4.00 introduces a new underlying platform architecture based on components. The Z-Wave SDK 7.17.x now uses this component structure and the structure and build method of Z-Wave applications has therefore changed compared to previous releases of Z-Wave SDK. The new component structure offers several new features in the GSDK:

- Search and filter to find and discover software components that work with the target device
- Automatically pull in all component dependencies and initialization code
- Configurable software components including peripheral units and drivers
- All configuration settings in C header files for usage outside of Simplicity Studio
- Configuration validation to alert developers to errors or issues
- GNU makefiles as a build option

Other changes specific to the Z-Wave Gecko SDK:

- `main()` is now part of the application
- The FreeRTOS configuration is available for application developers
- The region can be configured in Simplicity Studio GUI

2.2 Improvements

None

2.3 Fixed Issues

Fixed in release 7.17.2 GA

ID #	Description
758250	The requested Tx output power on BRD4205B varies with respect to achieved output power.
814263	Non-responsive app due to an erroneously applied SoC errata DCDC_E204 .
750117	Large network becomes unresponsive using 700.
818231	800 series OTA using External flash bootloader.
813975	Incorrect bootloader storage slot address in bootloader-slot-configuration.h
763619	Z-Wave controller not ACKing Routed Ack during OTA due to a race condition in the protocol task.

Fixed in release 7.17.1 Pre-Certified GA

ID #	Description
756403	FreeRTOS tickCount overflow after 49.7 days. A SensorPIR running in EM4 stops working after 50 days.
774560	Fixed 40 kbps 40kbps sensitivity degradation from an overly aggressive preamble loss detection in 800.
757837	BRD4210A has 20 dBm Tx output power despite being set to 14 dBm.
754134	Does not support QFN40 SoCs.
759440	Does not support all available HW accelerators in Secure Vault Mid SoCs.

Fixed in release 7.17.0 Pre-Certified GA

ID #	Description
731682	500 controller can now wakeup a 800 based FLiRS end device.

2.4 Known Issues in the Current Release

Issues in bold were added since the previous release. If you have missed a release, recent release notes are available on <https://www.silabs.com/products/software>.

ID #	Description	Workaround
753756	Network Wide Inclusion (NWI) of 500-based apps doesn't work through 700/800 repeaters.	NWI works at second attempt.
355095	In small networks Assign Return Routes will only generate direct range or one-hop routes even though multi-hop routes are possible.	None
361273	Transport Service is used when it is necessary to split a frame in two parts due to size. However, Transport Service does not forward RSSI information from the lower layers but only routing information. The RSSI value is the difference between LWR RSSI and background RSSI. As a consequence it is not possible to use RSSI for large frames handled by Transport Service in a network health calculation.	None

2.5 Deprecated Items

None

2.6 Removed Items

None

3 Z-Wave Plus V2 Application Framework

3.1 New Items

None

3.2 Improvements

For a detailed description of application development using the Z-Wave Plus V2 Framework, refer to *INS14259: Z-Wave Plus V2 Application Framework SDK7*.

A porting guide are also available for customers that want to migrate 800 hardware. The guideline contains a detailed example on how to port a non-UC 700 based Switch On/Off App (7.16.3) to a UC 800 based Switch On/Off App (7.17.0), refer to *APL14836: Application Note for Porting Z-Wave Appl. SW from 700 to 800 hardware*.

3.3 Fixed Issues

Fixed in release 10.17.2 GA

ID #	Description
757988	OTA firmware update is not working on 700 and 800 boards.
817522	Z-Wave Projects created for ZGM230 with custom board do not build.

Fixed in release 10.17.1 Pre-Certified GA

ID #	Description
675600	User-defined Product Type ID is now returned correctly in Manufacturer Specific Report Command.
763747	Doesn't return correct version of Security (S2/S0) Command Classes in Version Report Command Class.

3.4 Known Issues in the Current Release

Issues in bold were added since the previous release. If you have missed a release, recent release notes are available on <https://www.silabs.com/products/software>.

ID #	Description	Workaround
369430	All S2 multicast frames are sent using verified delivery S2_TXOPTION_VERIFY_DELIVERY whether or not a response is expected.	Change source code depending on the frame sent.
473723	True status doesn't report correctly if there are multiple instances like colors (in Color Switch CC), endpoints, etc.	None

3.5 Deprecated Items

None

3.6 Removed Items

None

4 Certified Applications

The certified applications based on v7.x.1+ will be formally certified by a certification house. However, the first release (v7.x.0) will only contain pre-certified applications based on a certification test using CTT v3. Refer to *INS14278: How to Use Certified Apps* for details.

4.1 Door Lock Key Pad

4.1.1 New Items

None

4.1.2 Improvements

None

4.1.3 Fixed Issues

Fixed in release 10.17.0 Pre-Certified GA

ID #	Description
652906	RSSI measurements on classic channels fail after reset or power cycle.

4.1.4 Known Issues in the Current Release

None

4.1.5 Deprecated Items

None

4.1.6 Removed Items

None

4.2 LED Bulb

4.2.1 New Items

None

4.2.2 Improvements

None

4.2.3 Fixed Issues

None

4.2.4 Known Issues in the Current Release

None

4.2.5 Deprecated Items

None

4.2.6 Removed Items

None

4.3 Power Strip

4.3.1 New Items

None

4.3.2 Improvements

None

4.3.3 Fixed Issues

None

4.3.4 Known Issues in the Current Release

None

4.3.5 Deprecated Items

None

4.3.6 Removed Items

None

4.4 Sensor PIR

4.4.1 New Items

None

4.4.2 Improvements

None

4.4.3 Fixed Issues

Fixed in release 10.17.2 GA

ID #	Description
775301	When the BTN0 button is pressed, the device sends a battery report command even when the device is in sleep mode.

Fixed in release 10.17.1 Pre-Certified GA

ID #	Description
760138	Debug-enabled Sensor PIR fails inclusion.

4.4.4 Known Issues in the Current Release

Issues in bold were added since the previous release. If you have missed a release, recent release notes are available on <https://www.silabs.com/products/software>.

ID #	Description	Workaround
758906	Wakeup current has increased on both 700 and 800 SoCs. Caused by an unintentional IR calibration performed at start-up.	None.

4.4.5 Deprecated Items

None

4.4.6 Removed Items

None

4.5 Switch On/Off**4.5.1 New Items**

None

4.5.2 Improvements

None

4.5.3 Fixed Issues

None

4.5.4 Known Issues in the Current Release

None

4.5.5 Deprecated Items

None

4.5.6 Removed Items

None

4.6 Wall Controller

4.6.1 New Items

None

4.6.2 Improvements

None

4.6.3 Fixed Issues

None

4.6.4 Known Issues in the Current Release

None

4.6.5 Deprecated Items

None

4.6.6 Removed Items

None

5 Pre-Certified Applications

The pre-certified applications will not be formally certified but certification tests have been performed based on CTT v3. Refer to *INS14816: How to Use Pre-Certified Apps* for details.

5.1 Multilevel Sensor

5.1.1 New Items

None

5.1.2 Improvements

None

5.1.3 Fixed Issues

Fixed in release 10.17.1 Pre-Certified GA

ID #	Description
704043	GENERIC_TYPE_SENSOR_MULTILEVEL and SPECIFIC_TYPE_ROUTING_MULTILEVEL_SENSOR are now returned correctly in NIF.

5.1.4 Known Issues in the Current Release

None

5.1.5 Deprecated Items

None

5.1.6 Removed Items

None

6 Serial API Bridge Controller

Beginning with version 7.16, when backing up and restoring a SerialAPI via the FUNC_ID_NVM_BACKUP_RESTORE, the SerialAPI will automatically upgrade the protocol non-volatile memory (NVM) to the latest version. Any backup made of a 7.16 or later SerialAPI can be restored to its original version or to a later version of the SerialAPI without any manual upgrade of the protocol NVM being necessary.

The serial interface is unchanged in version 8.

6.1 New Items

None

6.2 Improvements

None

6.3 Fixed Issues

Fixed in release 10.17.2 GA

ID #	Description
759102	Z-Wave Long Range Serial API Controller send data fails if data length is greater than 52.
775050	Setting illegal region in Serial API could brick UZB-7 dongle.
762775	ZG23 SerialAPI Controller hex files do not support OTW.

6.4 Known Issues in the Current Release

Issues in bold were added since the previous release. If you have missed a release, recent release notes are available on <https://www.silabs.com/products/software>.

ID #	Description	Workaround
387655	Pre-built SerialAPI delivered in Simplicity Studio will not work if the ZG14 bootloader is also flashed to the radio board.	Use serialAPI without bootloader or, if OTW support is needed, contact the Z-Wave Apps team for workaround.

6.5 Deprecated Items

None.

6.6 Removed Items

None

7 Important Changes

7.1 Command Classes

Invoking command class handlers, delivered in the SDK, will cause the build to fail. To resolve such build errors, remove the call to the command class handler that causes the error from `Transport_ApplicationCommandHandlerEx()` in the application source file.

Z-Wave Application Framework (ZAF) automatically invokes the correct command class handler based on the received frame. `Transport_ApplicationCommandHandlerEx()` is defined as a weak function in `ZW_TransportEndpoint.c` and therefore leaving the function defined in the application will not break the build.

All command classes delivered in the SDK use one of multiple `REGISTER_CC` macros. Non-Silicon Labs command class implementations must use one of those macros as well.

Given that all command classes use `REGISTER_CC()` or later, `Transport_ApplicationCommandHandlerEx()` can be removed from an existing application main source file.

7.2 Association Group Information for Lifeline

`CC_AGI_LifeLineGroupSetup()` no longer has any effect. Its previous functionality was to configure the list of command class / command pairs that would be reported in the Association Group Command List Report. The content of the Association Group Command List Report is now automatically populated by ZAF.

ZAF only reports command class / command pairs that are implemented by ZAF and required according to <https://sdomembers.z-wavealliance.org/wg/AWG/document/120>.

Non-Silicon Labs command class implementations must use `REGISTER_CC_V3()` to be listed in the Association Group Command List Report. See existing Silicon Labs implementations for an example.

If optional command class / command pairs are desired in the Association Group Command List Report, use `REGISTER_CC_V3()`.

7.3 Network Learn Mode

The function used in ZAF to set network learn mode has been modified so it will no longer have `wakeUpReason` as input. Parameters related to the wake up reason are now handled directly in the ZWave protocol.

The new format for `ZAF_setNetworkLearnMode()` is:

```
void ZAF_setNetworkLearnMode(E_NETWORK_LEARN_MODE_ACTION bMode)
```

7.4 Queue Notifying

The function used to add an item to the back of the queue and notify the receiver task from an ISR has been modified. The parameter related to check if a higher priority task needed to be woken was removed. This functionality is now handled inside the component.

The new format for `QueueNotifyingSendToBackFromISR()` is:

```
EQueueNotifyingStatus
QueueNotifyingSendToBackFromISR(SQueueNotifying* pThis,
                                const uint8_t* pItem);
```

8 Using This Release

This release contains the following

- Z-Wave Plus V2 Application Framework
- Z-Wave Certified Applications for a broad range of smart home applications
- Z-Wave Protocol and Serial API Applications

If you are a first-time user, Z-Wave documentation is installed with the SDK. See [INS14280: Z-Wave Getting Started for End Devices](#), [INS14278: How to Use Certified Apps in Z-Wave](#), and [INS14281: Z-Wave Getting Started for Controller Devices](#) for instructions.

This SDK depends on a Gecko Platform. The Gecko Platform code provides functionality that supports protocol plugins and APIs in the form of drivers and other lower layer features that interact directly with Silicon Labs chips and modules. Gecko Platform components include EMLIB, EMDRV, RAIL Library, NVM3, PSA, and mbedTLS. Gecko Platform release notes are available through Simplicity Studio's Launcher Perspective.

8.1 Installation and Use

Order a Z-Wave Wireless Starter kit. The kit offers the easiest and fastest way to start evaluation and development of your own Z-Wave mesh application. It provides a single world-wide development kit for both end devices and gateways with multiple radio boards, with which developers can create a mesh network and evaluate the Z-Wave module.

The Z-Wave and Z-Wave Long Range 700/800 SDK is provided as part of the Gecko SDK (GSDK), the suite of Silicon Labs SDKs. To quickly get started with the GSDK, install [Simplicity Studio 5](#), which will set up your development environment and walk you through GSDK installation. Simplicity Studio 5 includes everything needed for IoT product development with Silicon Labs devices, including a resource and project launcher, software configuration tools, full IDE with GNU toolchain, and analysis tools. Installation instructions are provided in the online [Simplicity Studio 5 User's Guide](#).

Alternatively, Gecko SDK may be installed manually by downloading or cloning the latest from GitHub. See https://github.com/SiliconLabs/gecko_sdk for more information.

Simplicity Studio installs the GSDK by default in:

- (Windows): C:\Users\<NAME>\SimplicityStudio\SDKs\gecko_sdk
- (MacOS): /Users/<NAME>/SimplicityStudio/SDKs/gecko_sdk

To implement a specific application, Silicon Labs recommends starting with one of the existing pre-certified apps with the desired Role Type.

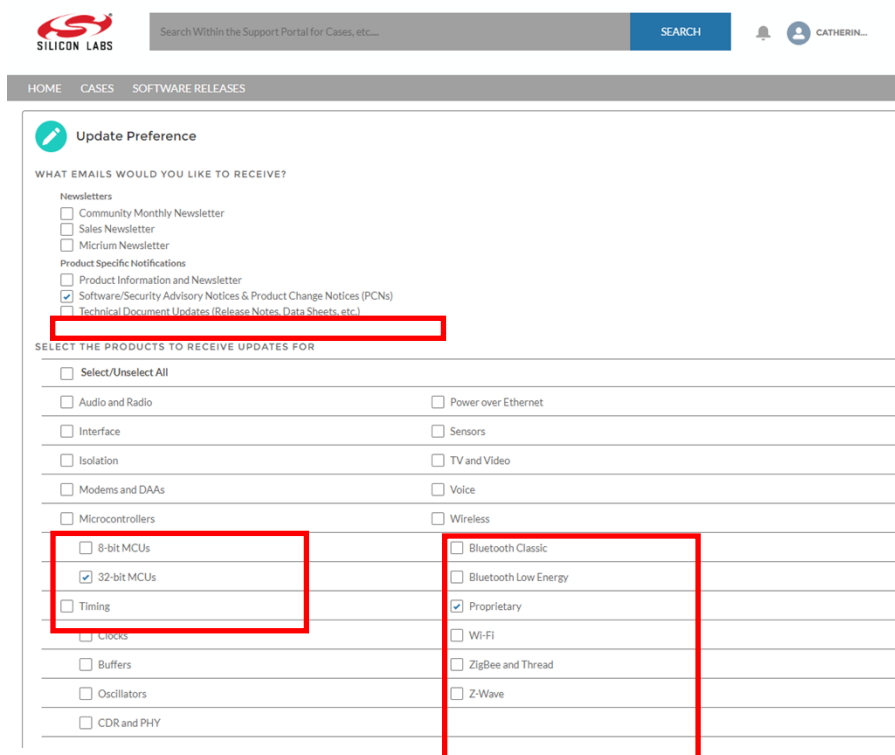
8.2 Security Information

Secure Vault Integration

This version of the stack are using secure vault interface for key management of asymmetric keys (ECC Curve 25519) and Symmetric keys (AES).

Security Advisories

To subscribe to Security Advisories, log in to the Silicon Labs customer portal, then select **Account Home**. Click **HOME** to go to the portal home page and then click the **Manage Notifications** tile. Make sure that 'Software/Security Advisory Notices & Product Change Notices (PCNs)' is checked, and that you are subscribed at minimum for your platform and protocol. Click **Save** to save any changes.



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<input type="checkbox"/> Buffers	<input type="checkbox"/> ZigBee and Thread
<input type="checkbox"/> Oscillators	<input type="checkbox"/> Z-Wave
<input type="checkbox"/> CDR and PHY	

8.3 Support

Development Kit customers are eligible for training and technical support.

See support resources and contact Silicon Laboratories support at <http://www.silabs.com/support>.

9 Product Life Cycle and Certification

Silicon Labs will add new features based on market requirements and continuously improve the Z-Wave Protocol to position the Z-Wave Ecosystem. The Z-Wave Protocol Life Cycle is a process to provide rapid innovation, new features, and robust matured protocol release to Z-Wave Partners. The Z-Wave Protocol Life Cycle defines the maturation process of Z-Wave Protocol generations and consist of three phases divided in five Life Cycle stages.

Ascent Phase (BETA)

Silicon Labs releases new Z-Wave protocol generations (branches), i.e., initial BETA release of a Z-Wave Protocol generation that will introduce major new features/functions or support for a new Z-Wave Single Chip generation. This release is not certified and not eligible for certification.

Maturity Phase (ACTIVE/MAINTAINED)

Each new generation will generate follow-on matured releases to resolve protocol issues prioritized by Silicon Labs and based on input from Z-Wave Alliance Partners.

Decline Phase (MONITORED/OBSOLETE)

After a period of 17-24 months in the maturity phase a branch/release is discontinued and for an additional period (up to 24 months) a discontinued branch/release will be monitored since products based on this branch may still be shipping or under warranty in the field.

Table 9-1. Z-Wave SDK Life Cycle Status

Series	SDK Version	Release Date [DD-MM-YYYY]	Life Cycle Status
700/800	7.17.2 GA	9-MAR-2022	Active
700/800	7.17.1 Pre-Certified GA	28-JAN-2022	Obsolete
700/800	7.17.0 Pre-Certified GA	08-DEC-2021	Obsolete
700	7.16.2 GA	08-SEP-2021	Active
700	7.16.1 GA	21-JUL-2021	Maintained
700	7.16.0 Pre-Certified GA	16-JUN-2021	Obsolete
700	7.15.4 GA	07-APR-2021	Active
700	7.15.2 Pre-Certified GA	27-JAN-2021	Monitored
700	7.15.1 Pre-Certified GA	09-DEC-2020	Obsolete
700	7.14.3 GA	14-OCT-2020	Monitored
700	7.14.2 GA	09-SEP-2020	Obsolete
700	7.14.1 GA	29-JUL-2020	Obsolete
700	7.14.0 Beta	24-JUN-2020	Obsolete
700	7.13.10 GA	18-AUG-2021	Monitored
700	7.13.9 GA	03-MAR-2021	Obsolete
700	7.13.8 GA	28-OCT-2020	Obsolete
700	7.13.7 GA	12-AUG-2020	Obsolete
700	7.13.6 GA	27-MAY-2020	Obsolete
700	7.13.5 GA	29-APR-2020	Obsolete
700	7.13.4 GA	15-APR-2020	Obsolete
700	7.13.3 GA	20-MAR-2020	Obsolete
700	7.13.2 GA	21-FEB-2020	Obsolete
700	7.13.1 GA	24-JAN-2020	Obsolete
700	7.13.0 Beta	13-DEC-2019	Obsolete
700	7.12.2 GA	26-NOV-2019	Obsolete
700	7.12.1 GA	20-SEP-2019	Obsolete
700	7.11.1 GA	12-JUL-2019	Obsolete
700	7.11.0 GA	29-MAR-2019	Obsolete

A change in the Z-Wave SDK utilized for a specific device does require recertification; however, the type of certification required, the amount of testing needed, and the associated fees depend on the scope of the change.

Table 9-2. Z-Wave Certification in case of a SDK upgrade.

Series	SDK Version	Upgrade to SDK Version	Type of Certification
700/800	7.17.2 GA	NA	Full certification
700/800	7.17.1 Pre-Certified GA	7.17.2 GA	Full certification
700/800	7.17.0 Pre-Certified GA	7.17.2 GA	Full certification
700	7.16.2 GA	7.17.2 GA	Full certification
700	7.16.1 GA	7.16.2 GA	Re-certification
700	7.16.0 Pre-Certified GA	7.16.1 GA	Full certification
700	7.15.4 GA	7.16.1 GA	Full certification
700	7.15.2 Pre-Certified GA	7.15.4 GA	Full certification
700	7.15.1 Pre-Certified GA	7.15.2 Pre-Certified GA	Full certification
700	7.14.3 GA	7.15.1 Pre-Certified GA	Full certification
700	7.14.2 GA	7.14.3 GA	Re-certification
700	7.14.1 GA	7.14.2 GA	Re-certification
700	7.14.0 Beta	7.14.1 GA	Full certification
700	7.13.10 GA	7.14.1 GA	Re-certification
700	7.13.9 GA	7.13.10 GA	Re-certification
700	7.13.8 GA	7.13.9 GA	Re-certification
700	7.13.7 GA	7.13.8 GA	Re-certification
700	7.13.6 GA	7.13.7 GA	Re-certification
700	7.13.5 GA	7.13.6 GA	Re-certification
700	7.13.4 GA	7.13.5 GA	Re-certification
700	7.13.3 GA	7.13.4 GA	Re-certification
700	7.13.2 GA	7.13.3 GA	Re-certification
700	7.13.1 GA	7.13.2 GA	Re-certification
700	7.13.0 Beta	7.13.1 GA	Full certification
700	7.12.2 GA	7.13.1 GA	Re-certification
700	7.12.1 GA	7.13.1+ GA	Re-certification
700	7.11.1 GA	7.14.1+ GA 7.13.1+ GA	Re-certification Re-certification
700	7.11.0 GA	7.14.1+ GA 7.13.1+ GA	Re-certification Re-certification

10 Legal

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