



Z-Wave and Z-Wave Long Range 700/800 SDK 7.21.4 GA Gecko SDK Suite 4.4 August 14, 2024

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 v7.21.4.0 Pre-Certified GA, see section [11 Product Life Cycle and Certification](#).

These release notes cover SDK version(s):

- 7.21.4 GA released August 14, 2024
- 7.21.3 GA released May 2, 2024
- 7.21.2 GA released April 10, 2024
- 7.21.1 GA released February 14, 2024
- 7.21.0 GA released December 13, 2023

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 section [10 Using This Release](#).

Compatible Compilers:

GCC (The GNU Compiler Collection) version 12.2.1, provided with Simplicity Studio.



KEY FEATURES

- Z-Wave NCP controller stability improvements in both Classic and Long Range
- Adding additional information on the reset reason in the `FUNC_ID_SERIAL_API_STARTED` payload
- The watchdog is enabled by default in the controller application

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1 Supported Radio Boards

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

Table 1-1. Supported Radio Boards

Series	Radio Board	Description	Z-Wave Long Range	Tx Power	Secure Vault
800	BRD2603A	ZGM230SB: SiP	yes	14 dBm	High
800	BRD2705A	EFR32ZG28B: SoC	yes	14 dBm	High
800	BRD4204A	EFR32ZG23A: SoC	yes	14 dBm	Mid
800	BRD4204B	EFR32ZG23A: SoC	yes	14 dBm	Mid
800	BRD4204C	EFR32ZG23B: SoC	yes	14 dBm	High
800	BRD4204D	EFR32ZG23B: SoC	yes	14 dBm	High
800	BRD4205A	ZGM230SA: SiP	yes	14 dBm	Mid
800	BRD4205B	ZGM230SB: SiP	yes	14 dBm	High
800	BRD4210A	EFR32ZG23B: SoC	yes	20 dBm	High
800	BRD4400C	EFR32ZG28B: SoC	yes	14 dBm	High
800	BRD4401B	EFR32ZG28B: SoC	yes	20 dBm	High
800	BRD4401C	EFR32ZG28B: SoC	yes	20 dBm	High
700	BRD4200A	ZGM130S: SiP	-	14 dBm	-
700	BRD4201A	EFR32ZG14: SoC	-	14 dBm	-
700	BRD4202A	ZGM130S: SiP & no SAW filters	-	14 dBm	-
700	BRD4206A	EFR32ZG14: SoC	yes	14 dBm	-
700	BRD4207A	ZGM130S: SiP	yes	14 dBm	-
700	BRD4208A	EFR32ZG14: SoC	yes	20 dBm	-
700	BRD4209A	ZGM130S: SoC	yes	20 dBm	-

The applications in the above table need a radio board in combination with BRD4002A – Wireless Starter Kit Mainboard (WSTK) and BRD8029A – Buttons and LEDs Expansion Board. Notice that BRD4002A is compatible with the old BRD4001A mainboard that is going to be deprecated. The Serial APIs in the above table only need a radio board and a BRD4002A – 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 indicates 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.

Table 1-2. Radio Boards versus OPNs.

Series	Radio Board	OPN Description
800	BRD2603A	ZGM230SB27HGN3
800	BRD2705A	EFR32ZG28B312F1024IM48-A
800	BRD4204A	EFR32ZG23A010F512GM48
800	BRD4204B	EFR32ZG23A010F512GM48
800	BRD4204C	EFR32ZG23B010F512IM48
800	BRD4204D	EFR32ZG23B010F512IM48
800	BRD4205A	ZGM230SA27HNN0
800	BRD4205B	ZGM230SB27HGN2
800	BRD4210A	EFR32ZG23B020F512IM48
800	BRD2603A	ZGM230SB27HGN3
800	BRD4400C	EFR32ZG28B312F1024IM68-A
800	BRD4401B	EFR32ZG28B322F1024IM68-A
800	BRD4401C	EFR32ZG28B322F1024IM68-A
700	BRD4200A	ZGM130S037HGN2
700	BRD4201A	EFR32ZG14P231F256GM32
700	BRD4202A	ZGM130S037HGN2
700	BRD4206A	EFR32ZG14P231F256GM32
700	BRD4207A	ZGM130S037HGN2
700	BRD4208A	EFR32ZG14P731F256GM32
700	BRD4209A	EFR32ZG13P531F512GM48

The table above shows the Radio Boards and OPN relation. This table can be used to clarify the compatibility of the prebuilt binaries offered in the GSDK. The prebuilt binaries are built targeting boards and not OPNs. More OPNs are available than the ones listed above. For those OPNs the prebuilt binaries will not work. The desired application must be built targeting the specific OPN instead.

2 Z-Wave Protocol

Be aware that 800 products based on SDK v7.17.x do not support upgrade of Secure Element firmware over the air (OTA). However, a migration path exists to upgrade both main bootloader and Secure Element firmware to enable support of this feature. See *INS14895: Instruction for How to Use Tiny App* regarding the upgrade path. The 800-based SDK v7.18.x supports upgrade of Secure Element firmware over the air (OTA).

The 8 kB reduction of the Z-Wave protocol NVM3 file system has an impact when making OTA firmware update on 800-based applications deployed on version 7.17.2 and earlier. To make an OTA firmware update from 7.17.2 to 7.18.1/2 requires that 7.18.1/2 is modified to keep the same NVM3 protocol size as 7.17.2. This can be configured by the define `NVM3_DEFAULT_NVM_SIZE` when building 7.18.1/2.

Note that due to the introduction of Secure Key Storage on the 800 series, having externally supplied key pairs is no longer supported. To ensure that security is not compromised, keys are generated internally on first boot and the private key kept only in secure storage. The public key and the QR code can be read out in production.

2.1 New Items

Added in release 7.21.4 GA

- Adding additional information on the reset reason in the `FUNC_ID_SERIAL_API_STARTED` payload.
- Adding a new Serial API command to retrieve the supported region list.

2.2 Improvements

Improved in release 7.21.2 GA

ID #	Description
1198558	Fixed controller migration process from 7.17 to 7.18+.
1250536	Fixed <code>NEW_NODE_REGISTERED</code> frame processed without src check.

Improved in release 7.21.1 GA

ID #	Description
1065157	Relocated <code>zpal_pm_set_device_type</code> from ZAF to the application layer. Reworked notifications (deep sleep, power down) related to EM4, EM3, EM2 states.

Improved in release 7.21.0 Pre-Certified GA

ID #	Description
1203123	Compiler version updated to GCC12
1175968	Refactoring to improve packet header management

2.3 Fixed Issues

Fixed in release 7.21.4 GA

ID #	Description
1285197	Fixed an issue where the controller configured in Z-Wave Long-Range mode can enter a state where the CRCs associated with TX packets are erroneous. The issue is triggered in noisy environments, including FLiRS devices.
1298919	Under stress, the controller can experience a hard fault condition. With the watchdog disabled, it leads to the controller being unresponsive until the next softreset. The hard fault condition is addressed. It is still recommended to enable the controller watchdog.
1326988	The controller could fall in a state when it is constantly trying to send a beam to an always-listening device. This behavior was triggered by a wrong entry in the "Next to Last Working Route."
1297362	TX queue refactoring addresses race conditions impacting the controller stability.

Fixed in release 7.21.1 GA

ID #	Description
1228675	Fix issue on Series 700 controllers, the host was no longer able to save data in the controller's NVM. Increase largest NVM object size to match host's limitation (from 204 to 512 bytes currently used by ZPC or ZGW).
1234133	Introduce memory optimizations to run the controller application in the EFR32ZG14.

Fixed in release 7.21.0 Pre-Certified GA

ID #	Description
1209748	Address an issue where the Z-Wave stack was not able to successfully reach the EM4 energy mode.
1210023	FUNC_ID_ZW_SEND_TEST_FRAME caused the controller SerialAPI NCP to become unresponsive.
1209882	Improve NVM repack to avoid watchdog reset during this process.
1166462	Fix a race condition that can lead to a lock-up in the priority queue.
1165981	Added ZAF module for retention registers.
1142774	DoorLock did not respond with S2 message encapsulation with the SPAN extension to S2 Nonce Report.
1134377	NodeID Length configuration was not persistent in SerialAPI NPC memory.

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 [Silicon Labs Release Notes page](#).

ID #	Description	Workaround
1336303	We recommend not using the FLiRS devices with Z-Wave Long Range. There is a known issue that can lead a device in such a configuration not to wake up.	Use the latest Simplicity SDK with the 800 Series platform. Use the Z-Wave stack 7.21.3 with 700 Series platform.
1271456	The BRD4401x radio boards (EFR32ZG28 + 20 dBm output power) is misconfigured, resulting in a low TX output power.	Use the latest Simplicity SDK with the BRD4401x radio boards instead.
753756	Network Wide Inclusion (NWI) of 500-based apps doesn't work through 700/800 repeaters.	NWI works at second attempt.
1227385	The 700/800 controller can lock itself up. The controller is not able to send acknowledgements and the data transmitted is corrupted	This low occurrence issue can be mitigated by the host. When the controller is locked replying with the status, TRANSMIT_COMPLETE_FAIL, the host should reset the controller.

2.5 Deprecated Items

None

2.6 Removed Items**Removed in release 7.21.0 Pre-Certified GA**

ID #	Description
1217971	Remove the portable controller feature from the SDK

3 Z-Wave Plus V2 Application Framework

3.1 New Items

Supported applications on BRD2705 Explorer Kit: Serial API Controller, Zniffer NCP, LED Bulb, Multilevel Sensor, Power Strip, Sensor PIR, Switch On/Off, Wall Controller. Due to limited buttons, some features are limited on this board. Details can be found in the applications' readme files.

The source code of the two Zniffer application variants are published and available as sample applications. The two variants are the ZnifferPTI and the Zniffer (non PTI).

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 GSDK](#).

A porting guide is also available for customers who want to migrate to the 800 platform. The guide contains a detailed example of how to port a non-component/700-based Switch On/Off App (7.16.3) to a component/800-based Switch On/Off App (7.17.0). See *APL14836: Application Note for Porting Z-Wave Appl. SW from 700 to 800 hardware*.

More mandatory logic was moved from the application to ZAF. This contributed to bringing down the total number of lines in the application. This should decrease time to market for new products.

ID #	Description
1221005	Revert sl_app_properties changes for Serial API Controller. It resolves the OTW update compatibility issue for Serial API Controller introduced in 7.20.0 SDK version. More details can be found in the application readme file and in important_changes.md.

3.3 Fixed Issues

Fixed in release 7.21.1.0 GA

ID #	Description
1248362	Fixed Multi Channel Endpoint behavior to send commands to Lifeline destination without Multi Channel Encapsulation when no Endpoint Association has been established. Fixes the CSR_MCSupportLifelineFromEPs_Rev01 manual test case.
1243767	Z-Wave ZG28 Margay demo OTA/OTW bootloaders are missing from Simplicity Studio

Fixed in release 7.21.0.0 GA

ID #	Description
1224435	DoorLock did not send battery report -every five minutes.
1224468	Report for Lifeline association was missing.
1224474	Basic command class report was incorrect.
1224476	Powerlevel timeout value was too short.
711346	Sensor PIR throws some undefined garbage to the connected port.

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 the [Silicon Labs Release Notes page](#)

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.
1062482	OTA firmware update gets stuck when a Timer interrupt is triggered to toggle a GPIO frequently.	Currently not available.
1080416	The ASSERT macro does not print the file and line when it is used in the ApplicationTask function.	Prints after disabling all interrupts.
1172849	On series 800, sleep will no longer take advantage of EM1P current savings.	Currently not available.

3.5 Deprecated Items

None

3.6 Removed Items

Removed in release 7.21.0.0 GA

The Key Fob Controller has been removed.

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.

The LED Bulb application has been removed from the Certified Applications and moved to Pre-Certified Applications.

4.1 Door Lock Key Pad

4.1.1 New Items

None

4.1.2 Improvements

None

4.1.3 Fixed Issues

None

4.1.4 Known Issues in the Current Release

None

4.1.5 Deprecated Items

None

4.1.6 Removed Items

None

4.2 Power Strip

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 Sensor PIR

4.3.1 New Items

None

4.3.2 Improvements

None

4.3.3 Fixed Issues

Fixed in release 7.21.4 GA

ID #	Description
1322043	Fixed missing first Lifeline report which caused failure in CCM_AssociationCmdClass_Rev01 CTT CTT Test case.
1274235	Sensor PIR enabling User Task ended up in Hard Fault. This Enabled the User Task in Sensor PIR sample app (by setting the CREATE_USER_TASK macro from 0 to 1 in app.c), leading to Hard Fault.

4.3.4 Known Issues in the Current Release

ID #	Description	Workaround
1256505	Sensor PIR does not wake up on BTN0 and BTN1 button pressing on an expansion board using BRD4400C and BRD4401C radio boards due to these GPIOs not supporting wakeup from EM4.	Remap the buttons to GPIOs that support wakeup from EM4.

4.3.5 Deprecated Items

None

4.3.6 Removed Items

None

4.4 Switch On/Off

4.4.1 New Items

None

4.4.2 Improvements

None

4.4.3 Fixed Issues

None

4.4.4 Known Issues in the Current Release

None

4.4.5 Deprecated Items

None

4.4.6 Removed Items

None

4.5 Wall Controller

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

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](#) or details.

The LED Bulb application has been removed from the Certified Applications and moved to Pre-Certified Applications.

5.1 Multilevel Sensor

5.1.1 New Items

None

5.1.2 Improvements

None

5.1.3 Fixed Issues

None

5.1.4 Known Issues in the Current Release

None

5.1.5 Deprecated Items

None

5.1.6 Removed Items

None

5.2 LED Bulb

5.2.1 New Items

None

5.2.2 Improvements

None

5.2.3 Fixed Issues

None

5.2.4 Known Issues in the Current Release

None

5.2.5 Deprecated Items

None

5.2.6 Removed Items

None

6 Serial API Applications

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

The serial interface is unchanged in version 8.

As of SDK version 7.18.x, Serial API end node is available as source code as well as binary. This opens the possibility for building customized versions of Serial API end node with different pin configuration or additional hardware utilization. A use case might be to use SPI instead of UART for serial communication.

No application using Serial API End Device is available in the GSDK.

6.1 Serial API Controller

6.1.1 New Items

None

6.1.2 Improvements

ID #	Description
1330199	The watchdog is enabled by default in the controller application.

6.1.3 Fixed Issues

None

6.1.4 Known Issues in the Current Release

None

6.1.5 Deprecated Items

None

6.1.6 Removed Items

None

7 800 SDK

7.1 BRD2603

800 SDK improvements:

- MultilevelSensor App improved by supporting ambient light sensor and motion sensor. The periodic timer for sensor data reports is configurable.
- Supported new apps on 800 DevKit: SensorPIR, WallController, PowerStrip, Zniffer
- Improved the usage of the 800 DevKit demo with the Unify Portable Environment by adding the ability to identify the application firmware on the boards. This makes preparation of the Dev Kit for the demo simpler and faster.

7.2 BRD2705

Support new applications for BRD2705A:

- SerialAPI Controller
- ZnifferPTI
- SwitchOnOff
- SensorPIR
- WallController
- PowerStrip
- MultilevelSensor
- LEDBulb

8 Important Changes

Starting in version 7.19, API-breaking changes have been documented in "Important_changes.md" available in the GSDK. Check it for a detailed description of changes introduced in the latest release.

HTML documentation has been added to the GSDK and can be found in Simplicity Studio, Documentation section, under "Z-Wave zipped doxygen documentation". Location of this document is <SDK>/protocol/z-wave/studio-docs/z-wave-html-docs.zip.

9 Open Source Software

Z-Wave is using FreeRTOS as the underlying OS, and it is based on FreeRTOS Kernel V10.4.3.

10 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.

10.1 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.

10.2 Security Information

Secure Vault Integration

This version of the stack is 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.

The following figure is an example:

SILICON LABS Search Within the Support Portal for Cases, etc... SEARCH CATHERIN...

HOME CASES SOFTWARE RELEASES

Update Preference

WHAT EMAILS WOULD YOU LIKE TO RECEIVE?

Newsletters

- Community Monthly Newsletter
- Sales Newsletter
- Micrium Newsletter

Product Specific Notifications

- Product Information and Newsletter
- Software/Security Advisory Notices & Product Change Notices (PCNs)
- Technical Document Updates (Release Notes, Data Sheets, etc.)

SELECT THE PRODUCTS TO RECEIVE UPDATES FOR

Select/Unselect All

<input type="checkbox"/> Audio and Radio	<input type="checkbox"/> Power over Ethernet
<input type="checkbox"/> Interface	<input type="checkbox"/> Sensors
<input type="checkbox"/> Isolation	<input type="checkbox"/> TV and Video
<input type="checkbox"/> Modems and DAAs	<input type="checkbox"/> Voice
<input type="checkbox"/> Microcontrollers	<input type="checkbox"/> Wireless
<input type="checkbox"/> 8-bit MCUs <input checked="" type="checkbox"/> 32-bit MCUs	<input type="checkbox"/> Bluetooth Classic <input type="checkbox"/> Bluetooth Low Energy <input checked="" type="checkbox"/> Proprietary <input type="checkbox"/> Wi-Fi <input type="checkbox"/> ZigBee and Thread <input type="checkbox"/> Z-Wave
<input type="checkbox"/> Timing	
<input type="checkbox"/> Clocks	
<input type="checkbox"/> Buffers	
<input type="checkbox"/> Oscillators	
<input type="checkbox"/> CDR and PHY	

10.3 Support

Development Kit customers are eligible for training and technical support.

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

11 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. 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. Refer to Z-Wave Alliance home page <https://z-wavealliance.org/> for details.

Table 11-1. Z-Wave SDK Release History

Series	SDK Version	Release Date [DD-MMM-YYYY]
700/800	7.21.0 GA	15-DEC-2023
700/800	7.20.2 GA	9-OCT-2023
700/800	7.20.1 GA	26-JUL-2023
700/800	7.20.0 Pre-Certified GA	07-JUN-2023
700/800	7.19.3 GA	03-MAY-2023
700/800	7.19.2 GA	08-MAR-2023
700/800	7.19.1 GA	01-FEB-2023
700/800	7.19.0 Pre-Certified GA	14-DEC-2022
700/800	7.18.8 GA	13-SEP-2023
700/800	7.18.6 GA	28-JUN-2023
700/800	7.18.4 GA	18-JAN-2023
700/800	7.18.3 GA	19-OCT-2022
700/800	7.18.2 GA	28-SEP-2022
700/800	7.18.1 GA	17-AUG-2022
700/800	7.18.0 Pre-Certified GA	08-JUN-2022
700/800	7.17.2 GA	09-MAR-2022
700/800	7.17.1 Pre-Certified GA	28-JAN-2022
700/800	7.17.0 Pre-Certified GA	08-DEC-2021
700	7.16.3 GA	13-OCT-2021
700	7.16.2 GA	08-SEP-2021
700	7.16.1 GA	21-JUL-2021
700	7.16.0 Pre-Certified GA	16-JUN-2021
700	7.15.4 GA	07-APR-2021
700	7.15.2 Pre-Certified GA	27-JAN-2021
700	7.15.1 Pre-Certified GA	09-DEC-2020
700	7.14.3 GA	14-OCT-2020
700	7.14.2 GA	09-SEP2020
700	7.14.1 GA	29-JUL-2020
700	7.14.0 Beta	24-JUN-2020
700	7.13.12 GA	21-SEP-2023
700	7.13.11 GA	02-NOV-2022
700	7.13.10 GA	18-AUG-2021
700	7.13.9 GA	03-MAR-2021

Series	SDK Version	Release Date [DD-MMM-YYYY]
700	7.12.2 GA	26-NOV-2019
700	7.12.1 GA	20-SEP-2019

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