



Z-Wave PC-Based Controller 5.55 GA

Simplicity SDK Suite 2024.6.0

June 5, 2024

The Z-Wave PC-based controller gives you the fastest and easiest way to develop feature-rich Z-Wave applications. The Z-Wave PC-based Controller application is based on the Z-Wave DLL. The applications have a thin GUI layer and all the Z-Wave specific code is placed in the DLL for easier application development. The Z-Wave PC-based Controller application is implemented in C# using Microsoft Visual Studio 2017 and .Net Framework 4.8. For details regarding the Z-Wave PC-based Controller application, refer to [INS13114: Z-Wave PC Based Controller v5 User's Guide](#).

These release notes cover Controller version(s):

- 5.55 released June 5, 2024
- 5.54 released December 14, 2022
- 5.53 released April 15, 2022



KEY FEATURES

- Max Tx Power and Auto Channel for LR
- PC-Based Controller Improvements
- EU-LR support

Compatibility and Use Notices

For additional information about the Controller, See section [7 About This Release](#).

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1 New Items

Added support of EU-LR region selection.

Added support of Time and Time Parameters Command Classes.

Implemented new Serial API SetTxPower16Bit to set the MAX TX POWER to more than 12.7 dBm but only MAX 1.4 dBm for supported devices.

Added support of Automatic channel in the channel config for LR Region.

2 Improvements

Updated Serial API to support new neighbor discovery mode. The new neighbor discovery works as follows:

When the API called with the nodeid of the listening node and the nodes to discovery are FLIRS nodes

- 1.) Controller will send find_nodes_in_range for each FLIRS node in the network where the listening node is the only node in the bitmask.
- 2.) The Controller will create nodeid bitmask for each FLIRS node that can reach the listening node.
- 3.) The controller will update the routing info for the listening node.

Fixed some bugs in working with the Serial API End Device including availability for supported action buttons.

Moved from custom to system Z-Wave Command Classes XML file

3 Fixed Issues

ID #	Description
775264	Crash on startup for Windows 11.
707095	Fixed availability Shift command only for controllers with Real Primary Network Role.
736950	Displaying endpoints after classic inclusion of power-strip and controller update.
813376	Set up supported command classes by default, fixed support Reset Locally notification (removing a node).
815134	PC Controller ZGW client print a wrong dynamic key for 800s.
818015	PC Controller crash if change Node Information but Generic and Specific fields were not set.
834924	Fixed update node info after Replace Failed.
1015360	Fixed selection nodes from all groups as destination for return route on Create/Delete Association.
1030742	Incorrect Parameter number shown on Get List of PC Controller.
1031806	Fixed QR Code parsing of Product Id Information Type(TLV2) and added hexadecimal representation of values.
1042577	Primary Controller sends a KEX Get to a secondary Controller when shifting role of Primary Controller.

4 Known Issues in the Current Release

Issues in bold were added since the previous release. To see release notes from previous releases, go to <https://docs.silabs.com/z-wave/latest/> and select the version of interest.

ID #	Description	Workaround
759117	Send Data doesn't show correct result in the log after execution	Use Zniffer
730899	After restart PC Controller Node list contains failed nodes after LR smart start inclusion	Call IsFailed and Remove Failed
730894	Implement select all on the Polling View	None
730076	PCC next instance (2nd, etc.) connects to the previously connected Socket Address.	None
708087	Button 'Security Schemes' in the 'Network Management' View doesn't set 'None' scheme (currently absent)	"Command Classes View", "Non-Secure"-option Disable security in the "Security Settings"
707127	'MPAN Table Configuration' dialog displays wrong node ids for LR nodes	None
706787	Floating Views and dialogs don't disable if PC Controller is busy may lead to unexpected behavior and errors.	None
700446	IMA View doesn't draw layout correctly for 'Network Health' map for LR-nodes	
672757	Feature and Ability to disable (and enable) Virtual nodes	None
654161	Option to enable/disable Smart Start	None
452196	Add a feature where I can rename the devices	None
325184	Firmware update to other targets results in corrupted data	None. Put on hold, waiting for another occurrence.
1293777	Getting information from FLiRs before an OTA does not work all the time.	None

5 Deprecated Items

None

6 Removed Items

None

7 About This Release

The Z-Wave PC-based Controller code contains an example of how to include, exclude, and control the devices included in the SDK. The PC-based Controller now supports both non-secure and secure S0/S2. In addition, the Z-Wave PC-based Controller supports the Z/IP Gateway and WSTK boards. System information can be replicated to and from the other controllers. The Z-Wave PC-based Controller accepts both a Serial API-based Static and Bridge Controller.

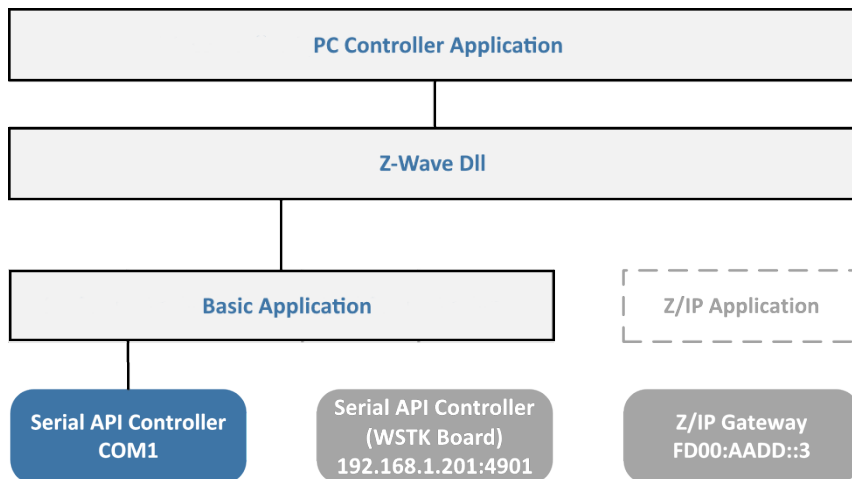


Figure 1. Serial Transport Connection Stack to Serial API Controller

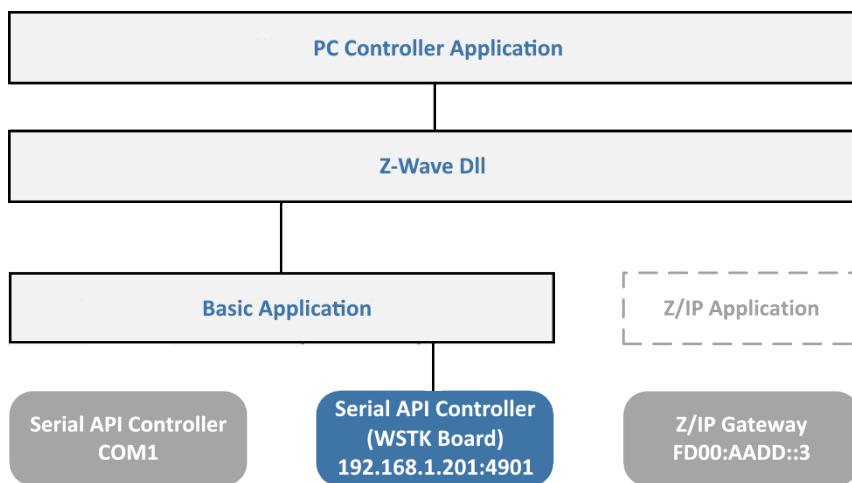


Figure 2. TCP Connection Stack to Serial API Controller

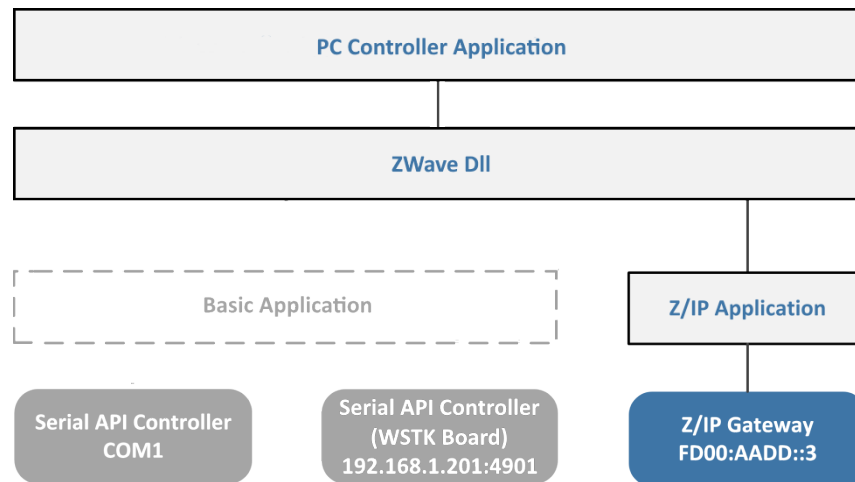


Figure 3. UDP Connection Stack to Z/IP Gateway

For detailed information, refer to [INS13114: Z-Wave PC Based Controller v5 User's Guide](#).

8 Legal

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