



Software Release Note

Z-Ware SDK 7.13.1

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Version:	13
Description:	Z-Ware is a Z-Wave Plus v2 SmartStart Web Gateway over ZIPGW. It comes with sample Z-Ware Apps as native iOS/Android apps and web pages for Tablet & Phone
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Restrictions:	Public

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REVISION RECORD

Doc. Rev	Date	By	Pages Affected	Brief Description of Changes
1	20180726	SNA	ALL	Cloned for SDK v7.00.00
2	20181112	BYEO	2, 6	SDK v7.00.01 Alpha 3 update
3	20181122	SNA	2, 6	SDK v7.00.02 Beta update
4	20190306	SNA	ALL	SDK v7.11.0 GA
5	20190326	SNA	2,4	Updated component versions for cert; Added certification information
7	20190529	SNA	2,4	SDK v7.11.1: component versions, features
8/9	20190626	SNA	2,4	Updated component versions & features after bug fixes
10	20190731	SNA	12	Patch a
11	20190913	SNA	ALL	v7.11.2
12	20191118 20191206	SNA	ALL	V7.13.0 Added techpub edits
13	20200123	SNA	ALL	V7.13.1

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1 Introduction

1.1 Purpose

Z-Wave is a Z-Wave web gateway over ZIPGW (Z-Wave for Internet Protocol Gateway). It is available in Portal and CE (Consumer Electronic) modes in separate binaries. See the Web User Guide listed in Section 2.2 for more information.

This document lists the release artefacts and new features.

1.2 Audience and Prerequisites

Intended for Z-Wave Partners only.

2 Contents

2.1 Component Versions

Component	Version
Web server	1.41.04
C Library	10.05
Z-Ware iOS/Android/Web App	21.46
PyZWare	1.00

2.2 Documents

Document	Name
Release Notes	SRN14426
Errata	ERN14427
Web User Guide	INS14428
Web Server Installer Guide	INS14486
Web Developer's Guide	INS14430
Library User Guide	INS14606
Library C API Reference Manual	INS14416
Z-Ware Doxygen	zware_dox.zip
PyZWare Doxygen	pyzware_dox.zip

2.3 Images

Mode	Platform	Server Files
CE	RPi3B+	zwarelocal-rpi.tar.gz
	Ubuntu PC 16.04 LTS 32 & 64 bits	zwarelocal-i386.tar.gz, zwarelocal-x86_64.tar.gz
Portal	Ubuntu PC 16.04 LTS 32 & 64 bits	zwareportal-i386.tar.gz, zwareportal-x86_64.tar.gz

The native iOS and Android Z-Ware apps are installable from:

App	URL
iPhone/iPad App	https://itunes.apple.com/app/z-ware-7/id1427154750
Android App	https://play.google.com/store/apps/details?id=com.silabs.zware7app

2.4 Source

File	Description
zware.tar.gz	Web Server & pages. Library is found in src/zwave/hcapi
zware_apps.zip	iPhone/iPad & Android App

pyzware_src.zip	PyZWare python source
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3 Feature Changes

Z-Ware SDK v7.13.1 is a mature release with ZIPGW & Protocol SDKs v7.13.1. It is not compatible with earlier ZIPGW versions owing to changes in wake up and failed nodes handling. Feature changes are listed with respect to v7.11.x.

3.1 Compliance

The portal version has been tested on PC with Ubuntu 16.04 and 18.04 LTS, while the CE version has been tested on RPi3B+ as the primary hardware platform. This release has passed Z-Wave Plus v2 certification (Cert #: ZC12-20010027) with the following waiver.

Heading	Requirement	Reason for Allowance
CCR.1.1.14	Always use highest version of CC	The product uses the version of CC which is supported by the individual products included to the Controller. This behavior will be formally allowed in the next version of the Z-Wave Specification. This does not affect interoperability.

3.2 All

- Adds CC control for Door Lock Logging v1 and Protection v1-2
- Adds Node Identify facility
- Updated OpenSSL library to v1.0.2t
- Supports non-DTLS connection to ZIPGW
- Fixed various defects – see ERN14427

3.3 Library

- Uses ZIPGW mailbox for queuing commands to sleeping nodes
 - Removes command queueing interface
- Uses NW MGMT PROXY CC v3 for failed node detection
- Moves Multi-command CC support to ZIPGW
- Uses MultiChannel CC bit addressing mode in zwif_xxx_mset commands, but only enabled if ZIPGW supports ZIP CC v5
- Enhanced demo app "controller_app" with SmartStart, Network health, Update Node, Update Network, Door Lock CC, Notification CC
- Supports Big-endian systems

3.4 Device database

- v8.1
- entry "send_encap" in to control whether to send consecutive commands within a time window of 0.4 second using multi-cmd encapsulation – to fix quirk in devices that don't have multi-cmd correctly

3.5 Web Server

- None

3.6 Scenes

- None

3.7 Apps

- None

4 Compatibility

4.1 Tested Devices

Type	Device
ZIPGW	ZIPGW SDK 7.13.1
S2 Firmware Samples (SDK 7.13.0)	Doorlock Class 2 PIR Sensor Class 0 Powerstrip Class 0 Switch On Off Class 0 Wall Controller Class 1
Binary Sensor	Linear Door/Window Sensor WADWAZ-1 Vision Security Door/Window Sensor ZD2102EU Vision Security Door/Window Sensor ZD2112EU Zooz Mini Sensor ZSE09 Zooz Water Sensor ZSE30 Ecolink Door and Window Sensor
Binary Switch	Aeotec Smart Switch 6 (EU) Aeotec Smart Switch 6 (US) Aeotec Smart Switch DSC-24-ZWUS Climax Power Meter Switch PSM-29ZW-P5 Fibaro Wall Plug FGWPB-121 (Security 2) GreenWave Reality Binary Switch NS210-F HANK Smart Plug KZW-SO05 NodOn Micro Smart Plug MSP-3-1-01 Philio Technology Corp Smart Energy Plug PAN11-1B Zooz Smart Plug ZEN06 ZLink On/Off Switch PA-100 (SmartStart Enabled)
Door Lock/ Entry Control	Aeotec Garage Door Controller Gen5 ZW062 August Smart Lock Rev 3 AUG-SL03-C02-S03 (Security 2) Benetek Smart Hidden Door Lock with Deadbolt Danalock V3-BTZE (Security 2) Schlage FE599 Vision Door Lock ZM1701 Yale Keyless Connected (Security 2)
Multilevel Switch	Aeotec LED Bulb ZW098-C55 Aeotec SmartDimmer6 ZW099-C16 Hank RGB Bulb ZLink Plug-in Dimmer PD-100 (SmartStart Enabled)
Multilevel Sensor	Zipato Multisensor Quad PH-PSM02 Aeotec Multisensor 6 ZW100-C Home Seer Leak Sensor HS-LS100+
Thermostat	Danfoss Z-Wave RD Room Sensor DRS21 Residential Control System TBZ48

	HeatIT ThermosFloor Thermostat TF 021
Portable Remote Controller	Fibaro keyfob FGKF-601 Fibaro button FGPB-101 Hank Four-Key Scene Controller HKZW-SCN04 NodOn Octan Remote Popp Keypad Wall Controller by Art Anderson CPH
Notification Sensor	Devolu Motion Sensor MT02647 Everspring Outdoor Motion Detector SP816-1 (Security 2) Fibaro Door Window Sensor FGK-104 Fibaro Flood Sensor FGFS-101 Linear Motion Detector WAPIZ-1 Hank Motion Sensor HKZW-MS02 (Security 2) Vision ZD2105EU-5 Recessed Door Sensor (SmartStart) Vision ZD2112EU-5 Door Sensor (SmartStart)
Window Covering	Copenhagen Blinds
Ring Home Security System	Base Station Keypad Contact Sensor Motion Detector Range Extender

4.2 Tested Web Browsers

Web Browser	Version
Internet Explorer	Version 11.0.9600.19129 (Windows 7) Version 11.1387.15063.0 (Windows 10)
Chrome	Version 70.0.3538.110
Firefox	Version 63.0.3

4.3 Compatible Devices

List of devices that are untested but expected to work, or are known to work with previous versions of Z-Ware.

Type	Device
Binary Sensor	Everspring Door/Window Detector SM103 Everspring Motion Detector HSP02 Everspring Z-Wave Lens Changeable PIR Detector SP814 Fibaro Motion Sensor FGMS-001 Fibaro Door/Window Sensor FGK-101-107 Homescenario Motion Sensor (Rebranded Everspring ST815) Linear Corp Door/Window Transmitter WADWAZ-1 Linear Corp Wireless Door/Window Sensor WAPIRZ-1

	<p>Schlage Door/Window Sensor Schlage PIR Sensor Vision Door/Window sensor ZD2102EU Vision PIR Motion ZD3102EU Vision Shock Sensor ZS 5101 Wintop iDoorSensor 1182R</p>
Binary Switch	<p>Aeon Smart Energy Switch DSC06106-ZWEU Aeon Smart Switch DCS24-ZWUS Aeotec Smart Switch 6 (EU) Aeotec Smart Switch 6 (US) Climax Power Meter Switch PSM-29ZW-P5 Climax Relay Controller PRL-1ZW Diehl Plug Actuator 2.0 751529-04 Everspring On/Off Module AN158-2 Fibaro Wallplug FGWPE/F-102 GE Plug-In Smart Switch 12719 ZW4101 (On/Off Light and Small Appliance Module) GE In-Wall Smart Outlet 12721 ZW1001 GE In-Wall Smart Switch 14291 ZW4005 GE Plug-In Smart Switch 28169 ZW4103 GE Plug-In Outdoor Smart Switch 12720 ZW4201 (On/Off Outdoor Light and Appliance Module) GE Z-Wave In-Wall Smart Switch 12722 ZW4005 GE Z-Wave In-Wall Smart Switch (Toggle) 12727 ZW4003 Go Control Smart Plug-In Outlet PS15Z-2 GreenWave Reality Binary Switch NS210-F Hank Smart plug HKZW-SO05 Hank RGB Bulb HKZW-RGB01 Heiman Smatter Metering Plug HS2SK-Z-EU Jasco Plug-In Smart Switch 45703 ZW4101 Kuju Insert Module Switch Linear Fixture Module Receiver FS20Z Linear Wireless Siren and Strobe WA105DBZ-1 Linear Z-Wave 3-Way Wall Accessory Switch WT00Z Linear Z-Wave Single Wall Outlet W015Z Linear Z-Wave Wall Switch WS15Z Neo Coolcam Siren Alarm NodOn Micro Smart Plug MSP-3-1-01 Philio Technology Corp Smart Energy Plug PAN11-1B U Fairy Plug Socket GR-201THXN+A3 U Fairy Sensor Siren GR-304N Vision Wireless Siren & Strobe Alarm ZM1601 EU Vision Power Monitor ZL 7261DE-5 Vision Wireless Siren ZM1602EU-5 Wintop iPlug 6941R-BS</p>

Door Lock/ Entry Control	August Smart Lock Rev 3 AUG-SL03-C02-S03 (Security 2) iRevo R200-CH (Security 2) Schlage FE599 Vision ZM1701 Yale Real Living Aeotec Garage Door Controller
Multilevel Switch	Aeon Energy Illuminator DSC08101-ZWEU Aeon Smart Dimmer DSC25-ZWUS Aeotec LED Bulb ZW098-C55 Aeotec Smart Dimmer6 Electronic Solutions ABMHZ Multiposition Motor Funk Dimmer Zwischenstecker ZW ZDAN 300 GE In-Wall Smart Fan Control 12730 ZW4002 GE In-Wall Smart Dimmer 12729 ZW3004 GE In-Wall Smart Dimmer 14294 ZW3005 GE Plug-In Smart Dimmer 12718 ZW3103 GE Plug-In Smart Dimmer 14280 ZW3107 GE Plug-In Smart Dimmer 28167 ZW3104 GE Z-Wave In-Wall Smart Dimmer (Toggle) Gradateur 12724 ZW3005 Go Control LB65R6Z-1 Go Control Dimmable LED Indoor Flood Light LBR30Z-1 Hank RGB Bulb HomePro Dimmer ZDP200 Jasco Plug-In Smart Dimmer 45702 ZW3103 Linear Plug-in Dimmer Module PD300Z-2 LinearLinc Smart LED Lightbulb LB60Z-1 Linear WD500Z Z-Wave Wall Dimmer Switch Zipato Bulb RGBWE27ZW.EU
Multilevel Sensor	Aeotec Multisensor 6 ZW100-A Aeotec Multisensor 6 ZW100-C Everspring Temperature/Humidity Detector ST814 Everspring Wireless Illumination Detector ST815 Everspring Wireless Temperature & Humidity Detector ST814 McoHome Technology Co, Ltd Sensor PM 2.5 Monitor Neo Coolcam Motion Sensor Zipato Multisensor Quad PH-PSM02
Thermostat	Devolvo Heizkorperthermostat Radiator Control MT:2650 Danfoss Thermostat Radiator Control MT:2650 Devolvo Raumthermostat Danfoss Z-Wave RD Room Sensor DRS21 HeatIT ThermosFloor Thermostat TF 021 Go Control Thermostat Rev 4 (1529) Go Control Thermostat Rev 21 (1548) Radio Thermostat CT100 Residential Control System TBZ48

	Secure (Horstmann Controls) SRT321 Trane WIBTZW005
Portable Remote Controller	Hank Four-Key Scene Controller HKZW-SCN04 NodOn Octan Remote NodOn The Soft Remote CRC-3-6-01 NodOn Wall Switch CWS-3-1-01 Zipato PSR03-1B Z-Wave Remote
Notification Sensor	Aeotec Door Recessed sensor Gen5 Aeotec Door/Window sensor Gen5 ZW120-A Aeotec Door/Window Sensor 6 [ZW112-A] Aeotec Water Sensor DSB45-ZWEU Aeotec Water Sensor DSB45-ZWEU (US) Climax Door Contact DC-15SLZW Climax Carbon Monoxide Detector CO-8ZW Climax Motion Detector IR-16SLZW Climax Panic Button PB023ZW Climax Smoke Detector SD-8EL-ZW Climax Water Sensor WS-15ZW Devolvo Motion Sensor MT02647 Devolvo Home Control Rauchmelder Smoke Detector MT:2651 Dome Motion Detector Dome Water sensor Dome Window/Door Sensor Ecolink Door and Window Sensor Fibaro Smoke Sensor FGSS-001 Fibaro Flood Sensor FGFS-101 Fibaro Button FGPB-101 GE Hinge Pin Smart Door Sensor GE Smart Home Portable Motion Sensor Hank Door/Window Sensor HKZW-DWS01 Heiman Door Sensor HS1DS-Z Heiman Smart CO Sensor HS1CA-Z Heiman Smart Smoke Sensor HS1SA-Z MonoPrice Door/Window sensor Philio Technology Corp Sensor PST02-1A Philio Technology Corp Water Sensor PAT02-1C Neo Coolcam PRI Motion Sensor Neo Coolcam Door/Window Sensor Neo Coolcam Water Sensor Samsung Door Sensor SHP-SB100Z Samsung Motion Sensor SHP-SG100Z Strips by Sensitive U Fairy PIR Sensor GR-302N Vision 4in1 Multisensor ZP3111EU-5 Vision 4in1 Multisensor ZD2201EU-5 Vision CO Sensor ZS6301-5

	Vision Door/Window sensor ZD2102EU Vision PIR ZD3102EU-5 Zipato Multisensor Quad PH-PSM02 Zooz Contact Sensor ZSE08 Zooz 4in1 Multisensor ZP 3111EU-5
Alarm Sensor	Fibaro Smoke Sensor FGSS-001 Fibaro Flood Sensor FGFS-101 First Alert Smoke Alarm GoControl GB00Z Glass Break Detector Vision Wireless Smoke Detector ZS6101

5 Patches

Patches will be released if and when subsequent Z-Wave certification issues or critical failures are found after the initial successful Z-Ware certification and release. The library and web patch will be in separate files and need to be applied to separate directories.

Component	Source Directory	Patch File
Library	zwportal/src/zwave/hcapi	None
Web	zwportal	None

Apply the patch to the original source code as in Section 2.4 after unpacking. To apply the patch:

```
cd <source directory>  
patch -p1 <patch file>
```

This patch solves the following defects:

None