

ZIPR2

ACC-ZIPR2-CE-U

ACC-ZIPR2-CE-E

ACC-ZIPR2-CE-H

Z-Wave Over IP Gateway User's Manual (With Engineering UI)



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1. INTRODUCTION

The ZIPR2 is a low cost Z-Wave over Internet Protocol (Z/IP) Gateway reference design, allowing Ethernet clients to access the Z-Wave Home Area Network (HAN). With the ZIPR2 connected to an internet router, clients outside the home can connect to it through the internet via the service provider's portal with any AJAX (Asynchronous JavaScript and Hyper Text Markup Language) compatible web browser.

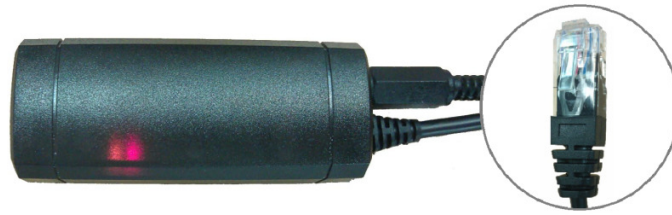


Figure 1: ZIPR2 with Tethered RJ45 Cable

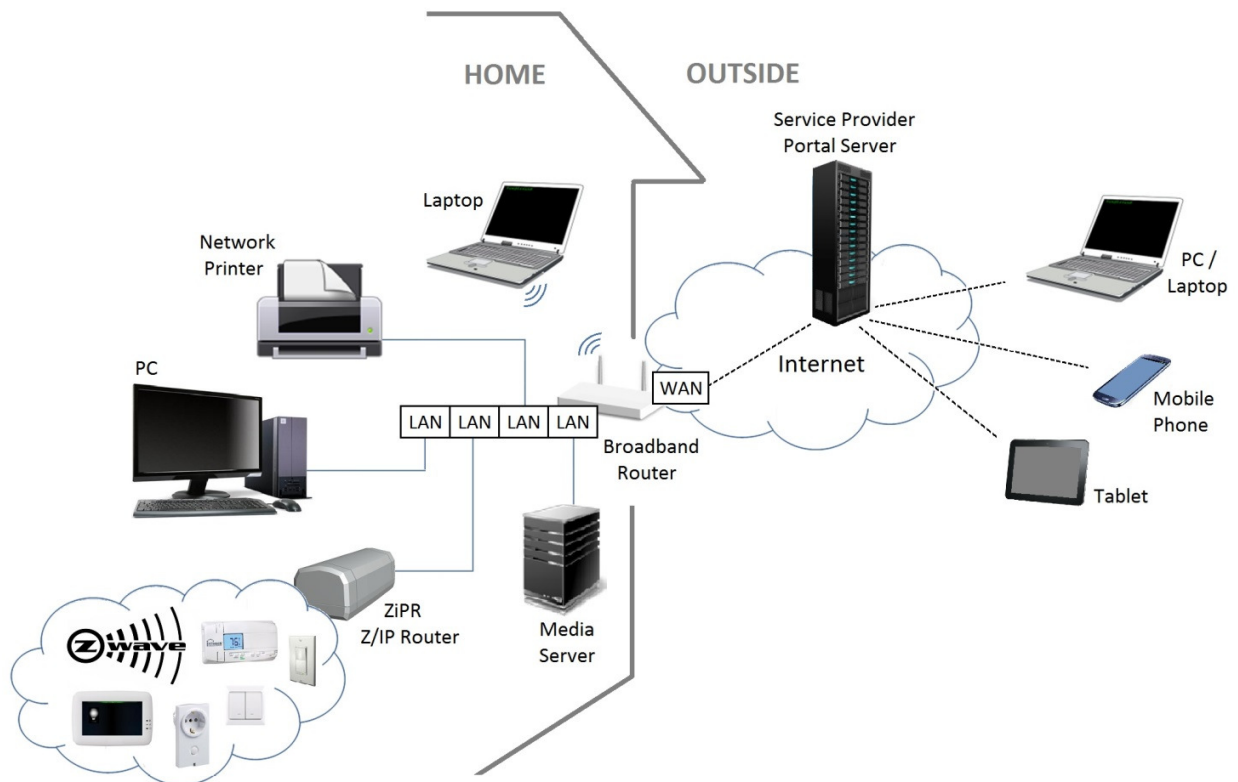


Figure 2: ZIPR2 Network Diagram

2. ENGINEERING UI PC APPLICATION SOFTWARE INSTALLATION

2.1 About

This section covers the steps for installation, execution and usage of the PC application software, Engineering UI. Engineering UI is a Z-Wave web gateway that acts as a secure Z-Wave static controller on a classic Z-Wave network or a Z-Wave over IP client. As such, it supports Z-Wave certification devices from multiple vendors.

System Requirements

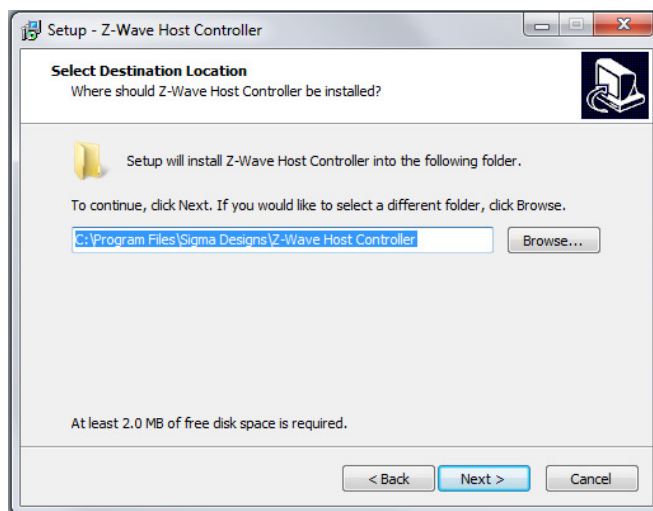
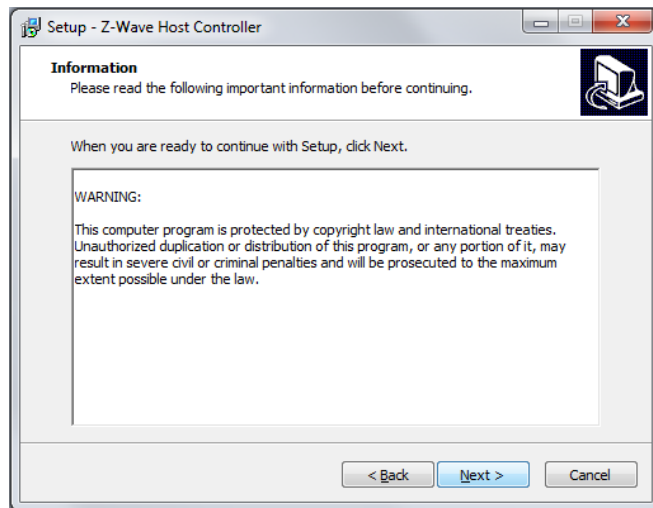
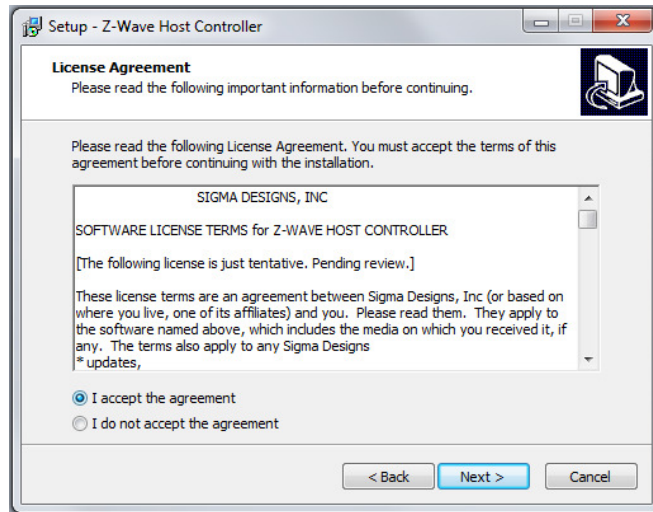
- Windows XP and 7 for 32 & 64 bit PCs
- AJAX capable default browser such as Internet Explorer 8 & 9; Firefox 6.0, Chrome 13.

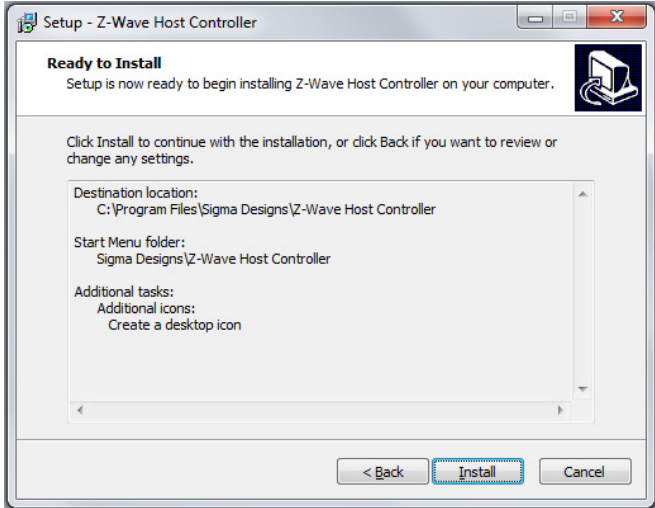
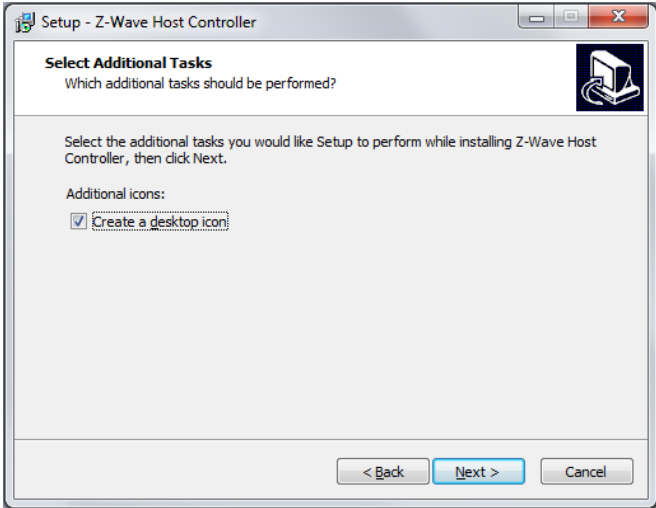
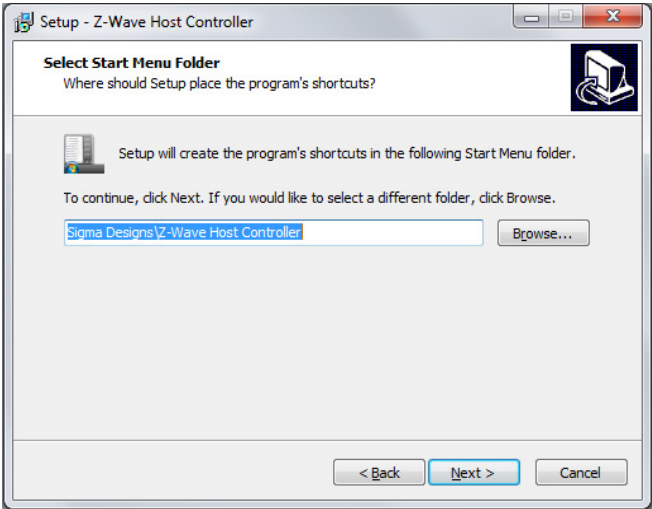
The diagrams shown in this guide are for Windows XP with Internet Explorer 8 unless otherwise specified.

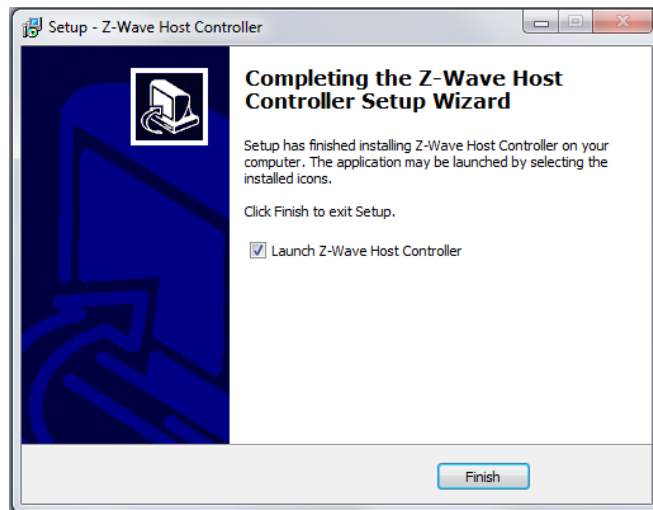
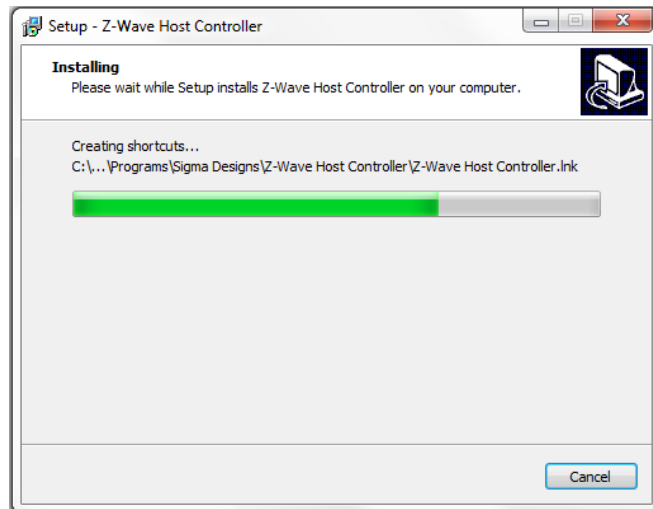
2.2 Installation

On running ZHCWeb_Setup.exe or ZIPHCWeb_Setup.exe, for the classic or Z/IP versions respectively, the following will be the self explanatory flow of screens with minor differences for the versions.





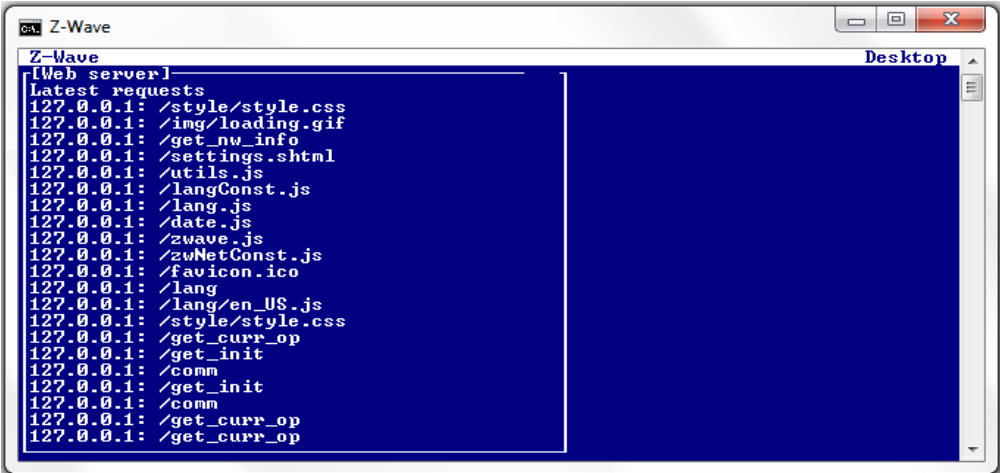




Launching the program can be done from the last step of setup or from the Windows start menu.



By default port 8088 is used. However user can specify the port using the Z-Wave Configuration. Also an advanced user may start multiple servers on different ports using the Z-Wave Host Controller [with port number] option. There is also a facility to reset password to default. The launcher runs the server console (if not already started, shown below) and the default web browser.

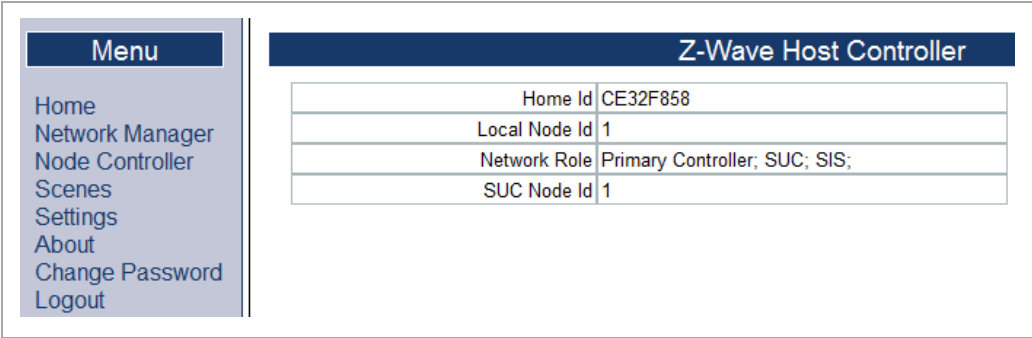


2.3 Using Engineering UI

The Engineering UI is the most flexible UI, enabling all Z-Wave features.

2.3.1 Home

After successful login, the user can see the Home page if the controller has already been initialized. All web pages have a navigation menu on the left. The home page shows the details of the local controller.



The user may log out anytime by clicking "Logout" Menu option. The menu is used to navigate to the other pages described in the following chapters.

2.3.2 Initialization

2.3.2.1 Classic

The settings page shown below allows selecting the serial port to connect to the static controller device.

Settings

Current Serial Port : **None**

Configure Serial Port Refresh Initialize

The serial port must be chosen and initialized, as shown in the diagram below. USB ports are listed first followed by other COM ports. Refresh shows newly inserted USBs.

Current Serial Port : **None**

Configure Serial Port Refresh Initialize

Z-Wave Ports

ZCom (COM19)

ZCom (COM23)

Other Ports

USB-SERIAL CH340 (COM28)

Prolific USB-to-Serial Comm Port (COM6)

Communications Port (COM1)

More

Select Port..

After selection, when Initialize is pressed, the progress is shown by the number of nodes that may need to be rediscovered if previous network state had not been made persistent on this machine.

Initializing network... Nodes completed : 3/5



On successful initialization, the port is shown as “currently configured”. Now the other pages will be populated with network information.

Z-Wave Network Initialized!

Current Serial Port : **COM19**

Configure Serial Port Refresh Initialize

2.3.2.2 Z/IP Local

The settings page allows entering/selecting IP address & UDP port to connect to the Z/IP gateway.

Settings

Current Z/IP Gateway Name/Address : **None**

Configure Z/IP Gateway Name/Address

Configure Port for Unsolicited Reports

When 'Refresh' button is pressed, Z/IP gateway discovery is initiated. Upon completion, the new list of gateway addresses is shown.

After Initialize is pressed, on successful initialization, the address is shown as "currently configured" and the port as "busy". Now the other pages will be populated with network information.

Z-Wave Network Initialized!

Current Z/IP Gateway Name/Address : **2011::4**

Current Port for Unsolicited Reports : **7890**

Configure Z/IP Gateway Name/Address

Configure Port for Unsolicited Reports

2.3.2.3 Z/IP Portal

The settings page allows the following operations:

- Add a new client
 - Enter 'Client Id', 'Client PIN', rest of the portal configurations and press 'Add / Update' button
- Update an existing client
 - Select the entry from 'Unregistered Clients' or 'Registered Clients'; update any configuration and press 'Add / Update' button
- Remove a client from 'Unregistered Clients' or 'Registered Clients'
 - Select the entry from the list and press 'Remove' button corresponding to the list
- Register a client
 - Select it from 'Unregistered Clients' and press '>' button.

- Unregister a client
 - Select it from 'Registered Clients' and press '<' button.

Pressing 'Default' button fills the fields with default settings. Pressing 'Clear' button clears the fields. If a registered client gets initialized to the portal, the corresponding entry under 'Registered Clients' is shown as 'busy'.

Limitation: Contrary to practical scenario, at any given time, only one gateway can remain initialized with the portal. Any subsequent connection requests will be rejected, if a gateway is already initialized. To allow a different gateway to be initialized, any existing initialized gateway must be unregistered.

Settings

Unregistered Clients

- 00-1E-32-FF-FF-20-00-3B

Registered Clients

- 00-1E-32-FF-FF-20-00-1F
- 00-1E-32-FF-FF-20-00-37 - Busy

>

<

Refresh

Remove

Remove

Client Id

Client PIN

LAN IPv6 Address

LAN IPv6 Prefix Length

Portal IPv6 Prefix

Portal IPv6 Prefix Length

PAN IPv6 Prefix

Default Gateway IPv6 Address

Unsolicited Destination Address

Unsolicited Destination Port

Add / Update

Default

Clear

2.3.3 Network Manager

The network manager lists nodes in the network and allows network operations like include/exclude.

The Z-Wave node/vendor/product ID, product types and categories are shown. Further:

- Nodes that support Z-Wave+ are shown with a 'Z+' icon.
- Securely included nodes that are with a lock icon.
- Security capable nodes that were included insecurely are shown with a crossed lock icon.
- Failed nodes are shown in red and can be selected for replace/remove failed node operations.

Z-Wave+ information and version information from the node is also displayed at the bottom when the ">>" icon in the node entry is clicked.

Network Manager

Add Node Remove Node Remove Failed Node Replace Failed Node

Initiate

Broadcast Send Node Info Update Node Update Network Reset

	Node Id	Vendor	Product Id	Product Type	Category	
	1	Sigma Designs (Zensys)	1	1		>>
	2	IR Sec. & Safety	20556	25419		>>
	3	Sigma Designs (Zensys)	0	0		>>
	5	0	0	0		>>

Role Type : Central Static Controller
 Node Type : Z-Wave+ for IP gateway

Library Type : Static Controller
 Protocol Version : 3.54
 Z-Wave Firmware Version : 3
 Z-Wave Firmware Sub Version : 80
 Hardware Version : 1
 Firmware Version List :

Target	Version	Sub Version
Gateway Firmware	2	0
Gateway Certificates	0	2
Gateway Configuration	0	2

Progress information for all operations is shown to give immediate feedback to the user.

Network Manager

Adding node... Getting detailed node information

Node Id	Vendor	Product Id	Product Type	Category	
1	Sigma Designs (Zensys)	1	1		>>
9	Sigma Designs (Zensys)	0	0		>>
10	Sigma Designs (Zensys)	0	0		>>

The network operations are similar to what the PC Controller software can do, and therefore will not be elaborated here. A quick map of operations to buttons is provided below.

Z-Wave Network Operation	Button(s)
Include nodes	Add Node
Exclude nodes	Remove Node
Include into an existing network	Initiate
Factory Reset	Reset

Network operation buttons are shown based on the role of the attached controller, for e.g. Add Node will not show for a secondary controller.

2.3.4 Controller

This page also lists all the nodes in the network. The selected node's endpoints and device classes; and the selected endpoint's interfaces are shown. Secure interfaces are shown with a lock icon. Clicking the arrow on the interface tab reveals the elements within for specific control.

Node Controller

Node Id	Vendor	Product Id	Product Type	Category	
1	Sigma Designs (Zensys)	1	1		>>
2	IR Sec. & Safety	20556	25419		>>

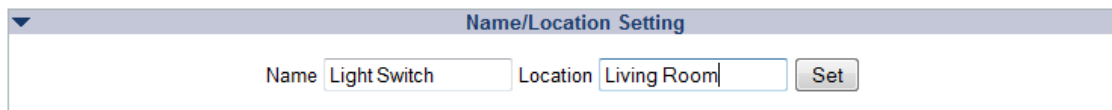
Endpoint Id	Generic Device Class	Specific Device Class	Name	Location
0	Entry Control	Secure Keypad Door Lock	Door Lock	Main Entrance

- ▶ Door Lock Setting
- ▶ User Code Setting
- ▶ Alarm Setting
- ▶ Basic Setting
- ▶ Group Setting
- ▶ Configuration
- ▶ Name/Location Setting

2.3.5 Interfaces

2.3.5.1 Naming/Location

The name/location interface always exists, at least on the local machine, even if the device does not support the corresponding command class; and is used to set the name/location strings for easier identification

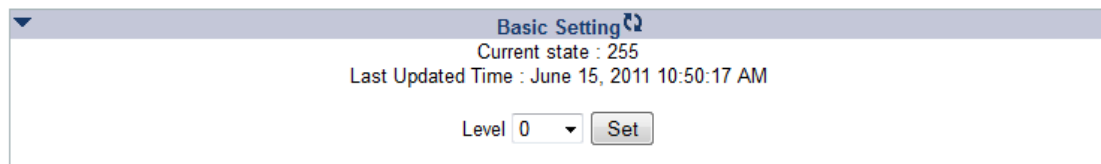



▼ Name/Location Setting

Name Location

2.3.5.2 Basic

The basic interface allows controlling a node in the minimal way. The refresh icon in middle of the header does a get to update the time-stamped state – as with other data interfaces.



▼ Basic Setting 

Current state : 255
Last Updated Time : June 15, 2011 10:50:17 AM

Level

2.3.5.3 Binary Sensor

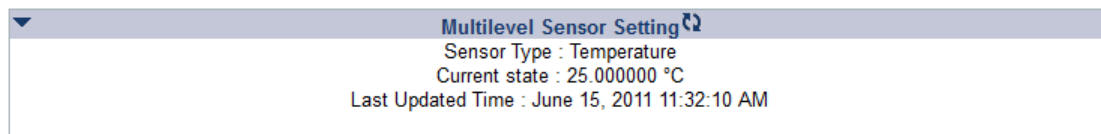



▼ Binary Sensor Setting 

Current state : Event detected
Last Idle Time : June 15, 2011 11:05:08 AM
Last Event Detected Time : June 15, 2011 11:05:13 AM

2.3.5.4 Multi-Level Sensor

The type and unit of the measurement(s) are also indicated.



▼ Multilevel Sensor Setting 

Sensor Type : Temperature
Current state : 25.000000 °C
Last Updated Time : June 15, 2011 11:32:10 AM

2.3.5.5 Binary Switch

Binary Switch Setting

Current state : On
Last Updated Time : June 15, 2011 10:45:58 AM

On Off

2.3.5.6 Multi-level Switch

Depending on the command class version, the control elements may vary.

Multilevel Switch Setting

Current level : 16
Last Updated Time : June 15, 2011 11:10:43 AM

Level

Level Change Direction Start Level

2.3.5.7 Alarm

Alarm Setting

Vendor Alarm Type : 22
Level : 48
Zensor Net Source Node Id : 16
Status : Activate
Z-Wave Alarm Type : CO Alarm
Event : Carbon monoxide detected
Location : stair
Last Updated Time : June 15, 2011 11:58:10 AM

Vendor Alarm Type

Z-Wave Alarm Type

Alarm Status

2.3.5.8 Association

The user can add or remove node or endpoints (depending on interface support) to any group supported by the interface limited by its storage.

Group configuration of a node that doesn't support Association Group Information (AGI) is shown below.

Group Setting

Group Id : 2
 Maximum Group Members : 4
 Group Members : Node:1, Node:3
 Last Updated Time : June 15, 2011 11:00:09 AM
 Current Active Group : Not defined

Group
2

Endpoint(s)

- Node:1
- Node:2
- Node:3

Add

Member(s)

- All
- Node:1
- Node:3

Remove

Group configuration of a node that supports Association Group Information (AGI) is shown below.

Group Settings

Group : 1 - Lifeline
 Maximum Group Members : 2
 Group Members : None
 Last Updated Time : April 23, 2013 5:04:01 PM
 Current Active Group : Not defined
 Last Updated Time : April 23, 2013 5:04:00 PM

Dynamic Group Information? : No
 Profile : Generic Device Class : 171 | Specific Device Class : 205
 Event Code : Command Number: 4660
 Command List :

Interface Type	Command
Device Reset Locally	Device Reset Locally Notification
Wake Up	Wake Up Notification

Group
1 - Lifeline

Endpoint(s)

- Node:1
- Node:2

Add

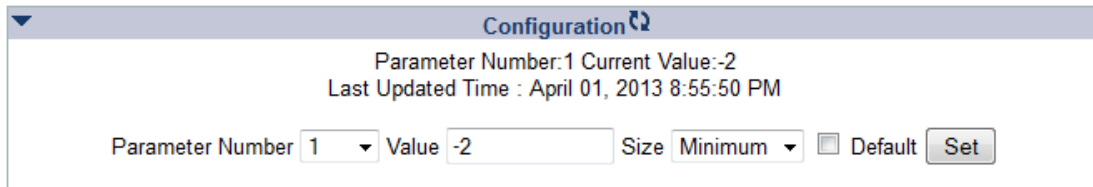
Member(s)

- All

Remove

2.3.5.9 Configuration

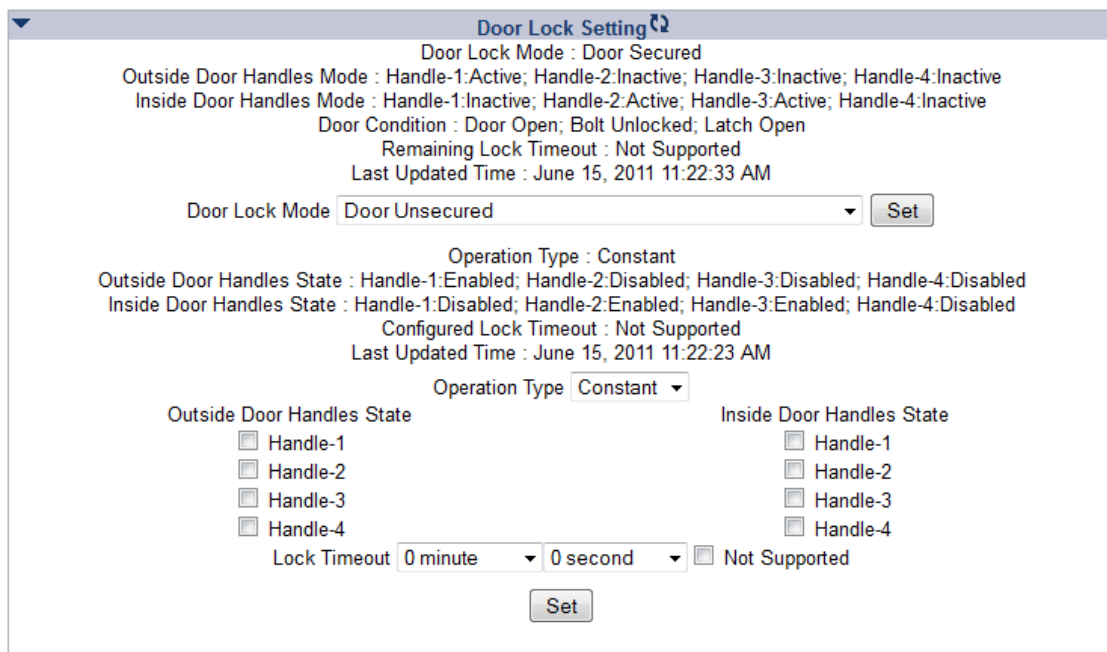
Configuration is a manufacturer specific setting which requires referring to the product manual. 'Size' can be specified explicitly or as the minimum size needed for the given value.



The screenshot shows a configuration window titled "Configuration". It displays the following information:

- Parameter Number: 1 Current Value: -2
- Last Updated Time : April 01, 2013 8:55:50 PM
- Parameter Number: 1 (dropdown)
- Value: -2 (text input)
- Size: Minimum (dropdown)
- Default
- Set (button)

2.3.5.10 Door Lock



The screenshot shows a "Door Lock Setting" window with the following details:

- Door Lock Mode : Door Secured
- Outside Door Handles Mode : Handle-1:Active; Handle-2:Inactive; Handle-3:Inactive; Handle-4:Inactive
- Inside Door Handles Mode : Handle-1:Inactive; Handle-2:Active; Handle-3:Active; Handle-4:Inactive
- Door Condition : Door Open; Bolt Unlocked; Latch Open
- Remaining Lock Timeout : Not Supported
- Last Updated Time : June 15, 2011 11:22:33 AM
- Door Lock Mode: Door Unsecured (dropdown)
- Set (button)
- Operation Type : Constant
- Outside Door Handles State : Handle-1:Enabled; Handle-2:Disabled; Handle-3:Disabled; Handle-4:Disabled
- Inside Door Handles State : Handle-1:Disabled; Handle-2:Enabled; Handle-3:Enabled; Handle-4:Disabled
- Configured Lock Timeout : Not Supported
- Last Updated Time : June 15, 2011 11:22:23 AM
- Operation Type: Constant (dropdown)
- Outside Door Handles State:
 - Handle-1
 - Handle-2
 - Handle-3
 - Handle-4
- Inside Door Handles State:
 - Handle-1
 - Handle-2
 - Handle-3
 - Handle-4
- Lock Timeout: 0 minute (dropdown), 0 second (dropdown), Not Supported
- Set (button)

2.3.5.11 Meter

If the interface supports it, the monitor and configuration elements are shown as well.

Meter Setting

Supported Meter Type : Electric Meter
Supported Units : Pulse count
Meter Type : Electric Meter
Current state : 254 Pulse count
Rate Type : Export
Delta : Unknown
Previous : -2 Pulse count
Last Updated Time : June 15, 2011 11:50:13 AM
Current Point Administration Number : ABCEF
Customer ID : efghip

Point Administration Number

2.3.5.12 Pulse Meter

Pulse Meter Setting

Current Pulse Count : 4294967294
Last Updated Time : June 15, 2011 11:19:33 AM

2.3.5.13 AV

Only supported buttons are shown.

Audio/Video Setting

Commands

- Play
- Stop
- Pause

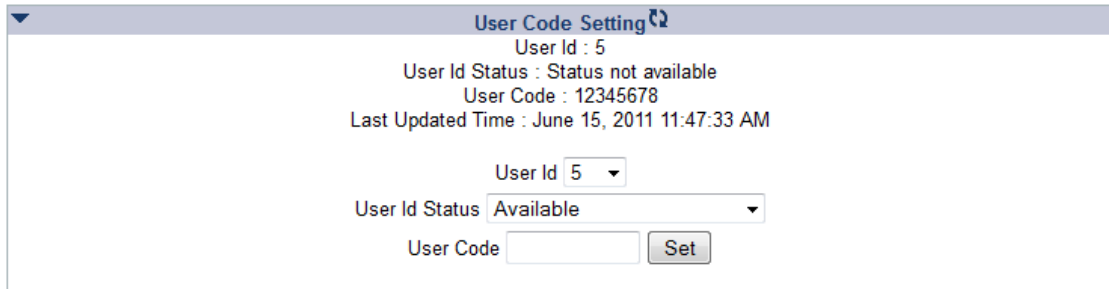
2.3.5.14 Battery

Battery level can be monitored form this interface.

Battery Setting

Current level : 36%
Last Updated Time : October 13, 2011 2:18:50 PM

2.3.5.15 User Code

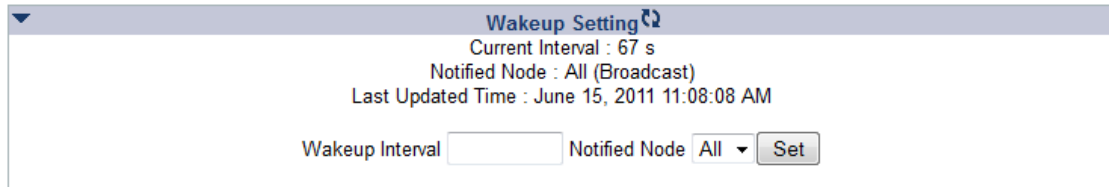


User Code Setting
User Id : 5
User Id Status : Status not available
User Code : 12345678
Last Updated Time : June 15, 2011 11:47:33 AM

User Id
User Id Status
User Code

2.3.5.16 Wake up

It is strongly recommended that this controller be set as the notified node. Otherwise it will not be able to de-queue commands for this node.



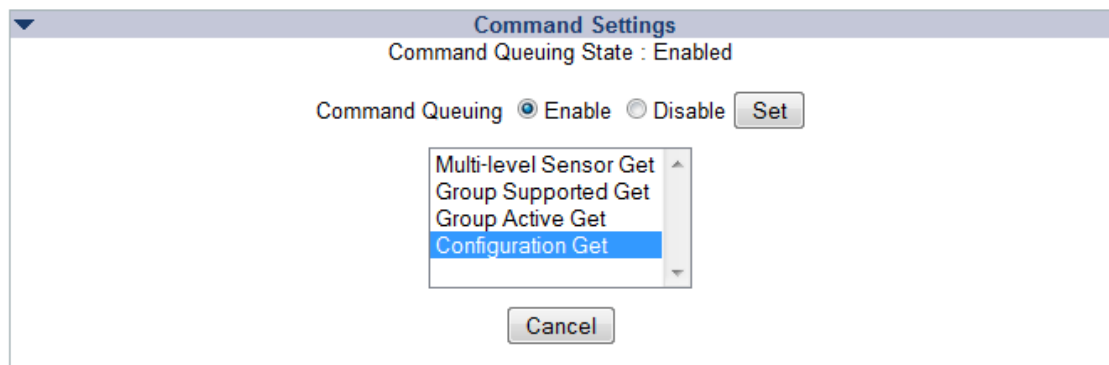
Wakeup Setting
Current Interval : 67 s
Notified Node : All (Broadcast)
Last Updated Time : June 15, 2011 11:08:08 AM

Wakeup Interval Notified Node

2.3.5.17 Command Queuing

Command queuing is an advanced function. Only just after including a sleep-capable node, it is to be turned off for configuration and turned on afterwards. Otherwise it is strongly recommended to leave it on and command queuing works transparently.

For failure cases e.g. when the controller is not notified on a node's wake up and the command in the queue is never removed, this UI allows removal of commands from the queue.



Command Settings
Command Queuing State : Enabled

Command Queuing Enable Disable

Multi-level Sensor Get
Group Supported Get
Group Active Get
Configuration Get

2.3.5.18 Multi Command

For nodes supporting multi command, this setting is enabled by default. When it is enabled the commands to be sent in immediate succession are combined to be sent as a multi command. When it is disabled the commands are not combined.

Command Settings

Multi Command State : Enabled

Multi command Enable Disable

2.3.5.19 Climate Control Schedule

Climate Control Schedule Settings

Weekday: Monday
Current Switchpoints
Time : 8:00 AM Setback : -0.40 K/°C (-0.72 °F)
Time : 6:00 PM Setback : 0.50 K/°C (0.90 °F)
Last Updated Time : April 16, 2012 2:30:12 PM

Temperature Scale

Weekday

Switchpoints

Time :	<input type="text" value="8 AM"/>	<input type="text" value="00"/>	Setback :	<input type="text" value="Setback Temperature"/>	<input type="text" value="-0.40"/>	<input type="button" value="X"/>
Time :	<input type="text" value="6 PM"/>	<input type="text" value="00"/>	Setback :	<input type="text" value="Setback Temperature"/>	<input type="text" value="0.50"/>	<input type="button" value="X"/>

Override Type: Temporary Override
Current Override Setback: 0.60 K/°C (1.08 °F)
Last Updated Time : April 16, 2012 2:30:13 PM

Override Type

Override Setback

2.3.5.20 Clock

Clock Settings

Current state: Monday 3:09 PM
Last Updated Time : April 16, 2012 3:08:59 PM

Clock

2.3.5.21 Indicator

Indicator Settings

Current state: 52
Last Updated Time : April 16, 2012 3:16:31 PM

State

2.3.5.22 Protection

Protection Settings

Current Local State : Unprotected
Current RF State : No RF Response
Last Updated Time : April 16, 2012 3:56:34 PM

Local State

RF State

Current Exclusive Control Node : 1
Last Updated Time : April 16, 2012 3:56:35 PM

Exclusive Control Node

Current Timeout : 32 seconds
Last Updated Time : April 16, 2012 3:56:16 PM

Timeout

2.3.5.23 Thermostat related interfaces

Thermostat fan

If both the interfaces below are available, they will be shown combined in a single frame.

Thermostat Fan Settings

Current Fan Mode : High
Fan Off? : Yes
Last Updated Time : April 16, 2012 11:26:01 AM

Fan Mode Off

Thermostat Fan Settings

Current Fan State : Running High
 Last Updated Time : April 16, 2012 11:37:59 AM

Thermostat mode & state

If both interfaces below are available, they will be shown combined in a single frame.

Thermostat Settings

Current Mode : Moist Air
 Last Updated Time : April 16, 2012 12:01:28 PM

Mode

Thermostat Settings

Current Operating State : Idle
 Last Updated Time : April 16, 2012 12:10:58 PM

Thermostat Setback & Setpoint

Thermostat Setback Settings

Current Setback Type: Temporary Override
 Current Setback: 0.50 K/°C (0.90 °F)
 Last Updated Time : April 16, 2012 2:12:13 PM

Setback Type

Setback

Thermostat Setpoint Settings

Setpoint Type: Heating #1
 Current Setpoint: 26 °C
 Last Updated Time : April 16, 2012 12:33:16 PM

Setpoint

Setpoint

2.3.5.24 Firmware

Interface to upgrade firmware (Z-Wave chip or others) in the node. This can also be used to push security certificates and network configurations to the node.

Limitation: Instead of uploading the firmware files from the web client (browser), these files must be placed under 'data' folder at (platform specific) application data area shown.

Firmware Settings

Manufacturer : Sigma Designs (Zensys)
Z-Wave Firmware ID : Z-Wave Chip Firmware
Z-Wave Firmware Checksum : 0x0000
Maximum Fragment Size : 400
Z-Wave Firmware Upgradeable : No
Firmware ID List :

Target	Firmware ID
1	Gateway Firmware
2	Gateway Certificates
3	Gateway Configuration

Last Updated Time : April 23, 2013 4:56:50 PM

Target

Firmware ID : Gateway Firmware

Firmware file name

Firmware file to be placed in Server under the 'data' folder at /var/local/lib/PortalHCWeb/

2.3.5.25 Z/IP Gateway

Interface to configure Z/IP gateway with peer name, peer IP address and peer port number. Unsolicited destination address and port number can also be configured. 'Set to Local' button allows to set the locally reachable IP address and local listening port number as unsolicited destination.

Gateway Settings

Mode : Portal
Peer IP Address 10.40.30.159
Peer Name : zip-gateway.sigmadesigns.com
Peer Port : 44123
Last Updated Time : April 23, 2013 4:51:08 PM

Mode

Peer IP Address

Peer Name

Peer Port

Configuration Parameters
 Lock Unlock
 Show Hide
Configuration Parameter controls does not indicate the current state of these settings

Unsolicited Destination Address 2050::40
Unsolicited Destination Port : 5678
Last Updated Time : April 23, 2013 4:51:07 PM
Local Address 3000::1
Local Port : 4123

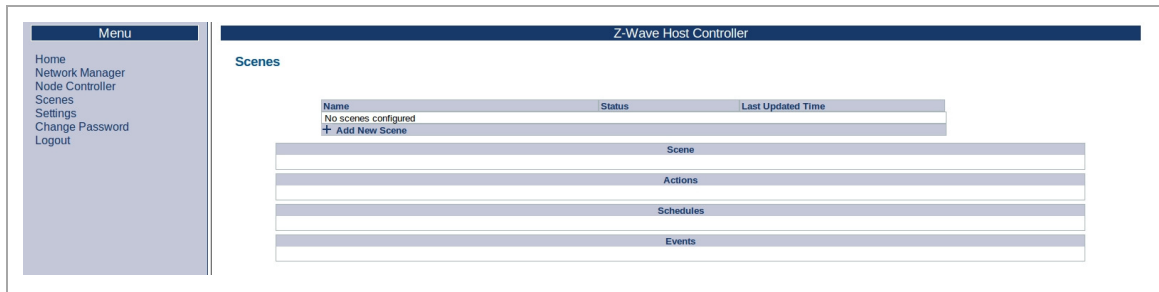
Unsolicited Destination Address

Unsolicited Destination Port

2.3.6 Scenes

Scenes can be used to create a set of Actions which could be executed (activated) by any of the following triggers

- 1) Manual
A user can manually execute a Scene by using the “Execute Scene” button on Scene webpage
- 2) Schedule
A schedule can be added to a Scene which can be used to execute a Scene on a preset time
- 3) Events
Device events (unsolicited reports) from Sensor devices can be used to execute a Scene



The main features of Scenes are:

- 1) Actions
The Device Actions are the collection of commands to perform some operation on a device. A scene may contain a single Action or many of them. A Device Action uses Z-Wave SET command to accomplish the operation.
- 2) Schedules
A schedule can be set to execute a Scene on any or every day of the week at a preset time. The Schedule remains active till it is disabled or deleted.
- 3) Events
Devices such as motions sensors can be used to execute a Scene by having Events trigger as part of the Scene.
- 4) Persistence
A Z-Wave Scene is saved to a persistent storage and is loaded back when the Webs server starts again.
- 5) Scene status
If the current state of Z-Wave devices matches the desired state as listed in Scene Actions, then a Scene is considered “Active”. If any of the Actions does not match with the current state of a device then the Scene becomes “Inactive”. Initially the status of a Scene is shown as “Unknown”. When a Scene status is known (either Active or Inactive), the Action that match with the current

state of the device are shown in Green while others are shown in Orange color. If the status of an Action is unknown then it is shown in default black color.

6) Scene Addition and Deletion

Scene addition can be done by using the “Add New Scene” button on Z-Wave Scene webpage while deletion can be done by using the “Delete Scene” button on Z-Wave Scene webpage.

2.3.6.1 Add or Edit Scene

A new Scene can be added by clicking “Add New Scene” button and then adding Scene Name, Actions, Schedules (optional) and Events (optional).

An existing Scene can be edited by clicking “Scene Edit” button. The Scene Edit screen looks exactly like the “Add New Scene” screen except that the Scene information (e.g. Scene name, Actions, Schedules and Events) is already populated. Any information about the Scene (including its name) could be changed freely although the Scene ID (not visible to the user) remains the same.

The screenshot displays the 'Scene' configuration page for a scene named 'Scene - Lock Close'. The interface is organized into several sections:

- Name:** A text input field containing 'Scene - Lock Close'.
- Actions:**
 - Node 7/3 - Door Lock - Door Lock Settings - Door Lock Mode: Door Secured (with a close icon).
 - Node 1 - undefined - Sigma Designs (Zensys)
 - Node 7 - undefined - Sigma Designs (Zensys)
 - Endpoint selection list: Endpoint 0 - PC Controller, Endpoint 1 - Routing Multilevel Sensor, Endpoint 2 - Routing Binary Sensor, Endpoint 3 - Door Lock.
 - Basic Settings: Level 0 (dropdown) and Add button.
 - Door Lock Settings: Door Lock Mode Door Secured (dropdown) and Add button.
- Schedules:**
 - ON Saturday AT 22:30 (with a close icon).
 - Day selection: Everyday Sunday Monday Tuesday Wednesday Thursday Friday Saturday
 - Time selection: 10 PM (dropdown) and 30 (dropdown).
 - Add button.
- Events:**
 - Node 1 - undefined - Sigma Designs (Zensys)
 - Node 7 - undefined - Sigma Designs (Zensys)
 - Endpoint selection list: Endpoint 0 - PC Controller, Endpoint 1 - Routing Multilevel Sensor, Endpoint 2 - Routing Binary Sensor (highlighted in orange), Endpoint 3 - Door Lock.
 - Binary Sensor Settings: State Event detected and Add button.

At the bottom of the form, there are navigation icons (back, forward, refresh, delete) and a prominent 'Save Scene' button.

Action (Mandatory)

Actions

Node 3 - Multilevel Power Switch - Multilevel Switch Settings - Level: Off/Disable ✕

Node 1 - undefined - Sigma Designs (Zensys) ▲
 Node 3 - undefined - Sigma Designs (Zensys) ▼

Endpoint 0 - Multilevel Power Switch ▼

Basic Settings: Level 0 ▼ Add

Multilevel Switch Settings: Level Off/Disable ▼ Add

Schedules (Optional)

Schedules

ON Saturday AT 22:30 ✕ 🔔

Everyday
 Sunday
 Monday
 Tuesday
 Wednesday
 Thursday
 Friday
 Saturday

10 PM ▼ 30 ▼

Add

Events (Optional)

Events

Node 7/2 - Routing Binary Sensor - Binary Sensor Settings - State: Event detected ✕ 🔔

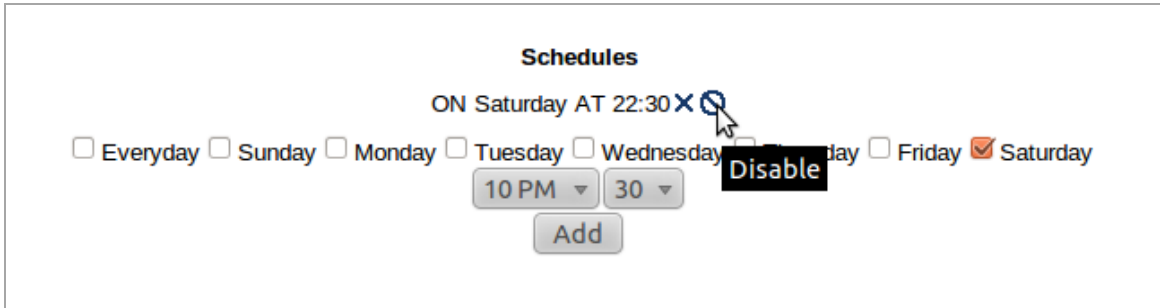
Node 1 - undefined - Sigma Designs (Zensys) ▲
 Node 7 - undefined - Sigma Designs (Zensys) ▼

Endpoint 0 - PC Controller
 Endpoint 1 - Routing Multilevel Sensor
 Endpoint 2 - Routing Binary Sensor
 Endpoint 3 - Door Lock

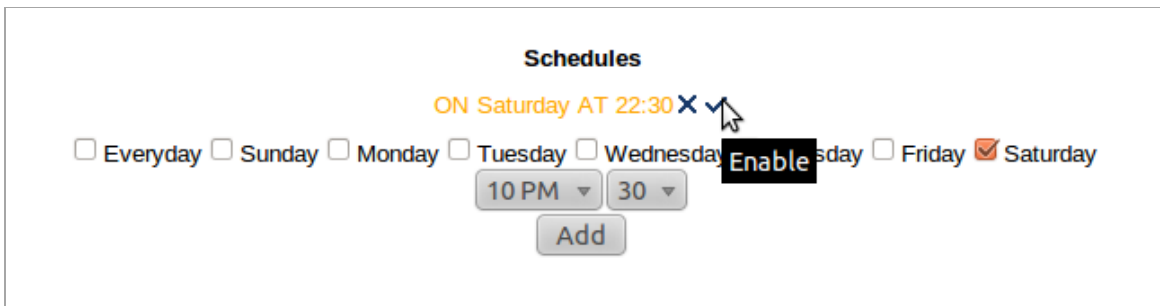
Binary Sensor Settings: State ● Event detected Add

Enable/Disable Scene Schedules and Events

The Scene Schedules and Events can be enabled or disabled at the time of a new Scene creation or while editing an existing Scene.

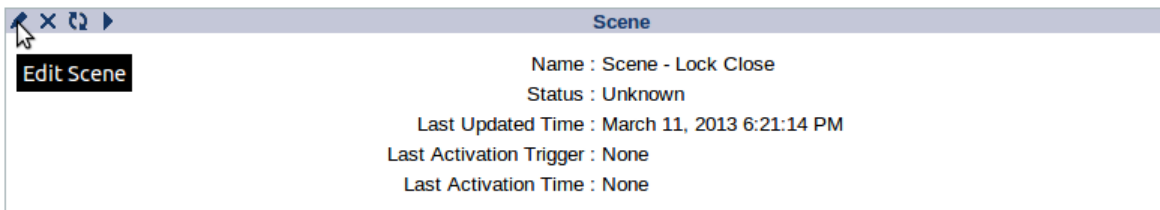


The disabled Scene Schedule or Event is shown in orange colour. The disabled Scene Schedules and Events do not trigger a Scene even if the condition specified in the disabled Schedule or Event is met.



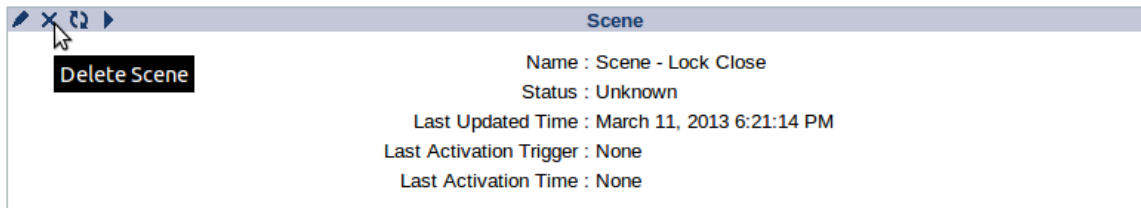
2.3.6.2 Edit Scene

A scene can be deleted using the “Edit Scene” button.



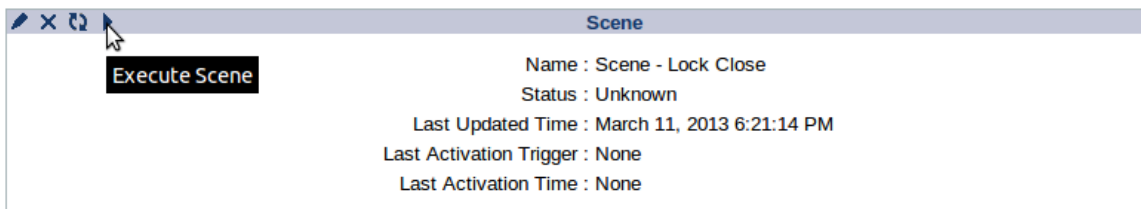
2.3.6.3 Delete Scene

A scene can be deleted using the “Delete Scene” button.



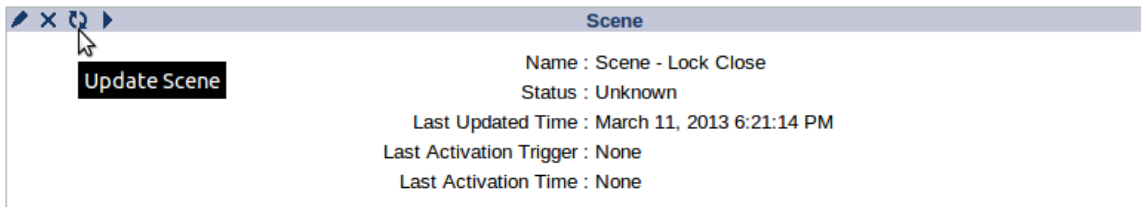
2.3.6.4 Execute (Activate) Scene

A scene can be executed using the “Execute Scene” button.



2.3.6.5 Update Scene Status

The status of a Scene can be updated using “Update Scene” button.



If all the Actions of a Scene match with the current state of Z-Wave devices then the Scene is supposed to be in an “Active” state. The “Active” Actions are shown in green colour.

Scene	
Name :	MultiLevel On
Status :	Active
Last Updated Time :	January 17, 2013 5:17:40 PM
Last Activation Trigger :	None
Last Activation Time :	None
Actions	
Node 3 - Multilevel Power Switch - Multilevel Switch Settings - Level: On/Enable	
Schedules	
ON Monday AT 4:00	
Events	

The “Inactive” Actions are shown in orange colour.

Scene	
Name :	MultiLevel Off
Status :	Inactive
Last Updated Time :	January 17, 2013 5:17:40 PM
Last Activation Trigger :	None
Last Activation Time :	None
Actions	
Node 3 - Multilevel Power Switch - Multilevel Switch Settings - Level: Off/Disable	
Schedules	
ON Friday AT 22:00	
Events	

2.3.6.6 Update All Scene Status

The Scene list panel contains a list of all available Scenes and their status. Status of all available Scenes can be update using “Update All Scenes” button.

Name	Status	Last Updated Time
MultiLevel On	Unknown	None
MultiLevel Off	Unknown	
+ Add New Scene		

Update All Scenes

After the update, different Scenes may have different status.

Name	Status	Last Updated Time
MultiLevel On	Active	January 17, 2013 5:22:12 PM
MultiLevel Off	Inactive	January 17, 2013 5:22:12 PM
+ Add New Scene		

2.3.6.7 About

The About page displays the information obtained from the server by using zw_info API. The information is categorised into two different tables namely General and Version information as shown below.

About

General Information

Vendor	Sigma Designs
Product	ZWave HCWeb
Server Platform	Windows
Server Status	Initialized
Username	
Home Id	EC192E4C
Local Node Id	1
Current Serial Port	COM9
Server IP Address	127.0.0.1
Client IP Address	127.0.0.1

Version Information

Z-Wave Host Controller API	3.10
Z-Wave Host Controller Web Server	1.41
Z-Wave App UI Engineering	1.00
Z-Wave App UI STB/TV	1.91c
Z-Wave App UI PC/Tablet	Unavailable
Z-Wave App UI Phone	1.00

3 FCC NOTICE TO USERS

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

4 EU DECLARATION OF CONFORMITY

EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

(Safety)

- **EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013**
Safety of Information Technology Equipment

(MPE)

- **EN 62479: 2010**
Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)










(Radio)

- **EN 300 220-1 V2.4.1:2012**
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD);
Radio equipment to be used in the 25MHz to 1000MHz frequency range with power levels ranging up to 500mW; Part 1: Technical characteristics and test methods
- **EN 300 220-2 V2.4.1:2012**
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD);
Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

(EMC)

- **EN 301 489-1 V1.9.2:2011**
Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- **EN 301 489-3 V1.6.1:2013**
Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz

CE0560

 Český [Czech]	<p><i>[Jméno výrobce]</i> tímto prohlašuje, že tento <i>[typ zařízení]</i> je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.</p>
 Dansk [Danish]	<p>Undertegnede <i>[fabrikantens navn]</i> erklærer herved, at følgende udstyr <i>[udstyrets typebetegnelse]</i> overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.</p>
 Deutsch [German]	<p>Hiermit erkläre <i>[Name des Herstellers]</i>, dass sich das Gerät <i>[Gerätetyp]</i> in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.</p>
 Eesti [Estonian]	<p>Käesolevaga kinnitab <i>[tootja nimi = name of manufacturer]</i> seadme <i>[seadme tüüp = type of equipment]</i> vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.</p>
 English	<p>Hereby, Sigma Designs Inc, declares that this ZIPR2 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.</p>
 Español [Spanish]	<p>Por medio de la presente <i>[nombre del fabricante]</i> declara que el <i>[clase de equipo]</i> cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.</p>
 Ελληνική [Greek]	<p>ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ <i>[name of manufacturer]</i> ΔΗΛΩΝΕΙ ΟΤΙ <i>[type of equipment]</i> ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.</p>
 Français [French]	<p>Par la présente <i>[nom du fabricant]</i> déclare que l'appareil <i>[type d'appareil]</i> est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.</p>
 Italiano [Italian]	<p>Con la presente <i>[nome del costruttore]</i> dichiara che questo <i>[tipo di apparecchio]</i> è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.</p>

Latviski [Latvian]	Ar šo [<i>name of manufacturer / izgatavotāja nosaukums</i>] deklarē, ka [<i>type of equipment / iekārtas tips</i>] atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo [<i>manufacturer name</i>] deklaruoją, kad šis [<i>equipment type</i>] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
 Nederlands [Dutch]	Hierbij verklaart [<i>naam van de fabrikant</i>] dat het toestel [<i>type van toestel</i>] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
 Malti [Maltese]	Hawnhekk, [<i>isem tal-manifattur</i>], jiddikjara li dan [<i>il-mudel tal-prodott</i>] jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
 Magyar [Hungarian]	Alulírott, [<i>gyártó neve</i>] nyilatkozom, hogy a [<i>... típus</i>] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
 Polski [Polish]	Niniejszym [<i>nazwa producenta</i>] oświadczam, że [<i>nazwa wyrobu</i>] jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
 Português [Portuguese]	[<i>Nome do fabricante</i>] declara que este [<i>tipo de equipamento</i>] está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
 Slovensko [Slovenian]	[<i>Ime proizvajalca</i>] izjavlja, da je ta [<i>tip opreme</i>] v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	[<i>Meno výrobcu</i>] týmto vyhlasuje, že [<i>typ zariadenia</i>] spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
 Suomi [Finnish]	[<i>Valmistaja = manufacturer</i>] vakuuttaa täten että [<i>type of equipment = laitteen tyyppimerkintä</i>] tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
 Svenska [Swedish]	Härmed intygar [<i>företag</i>] att denna [<i>utrustningstyp</i>] står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.