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

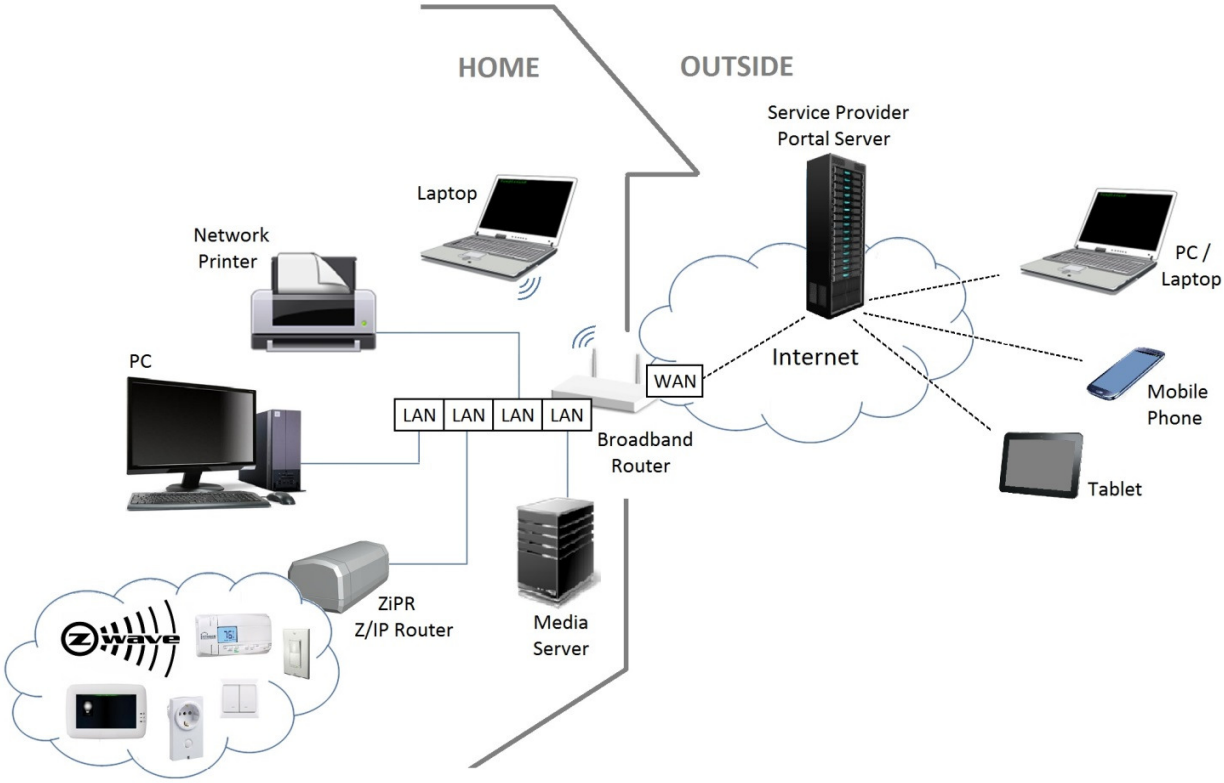

Figure 2: ZIPR2 Network Diagram

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2. ENGINEERING UI PC APPLICATION SOFTWER 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.

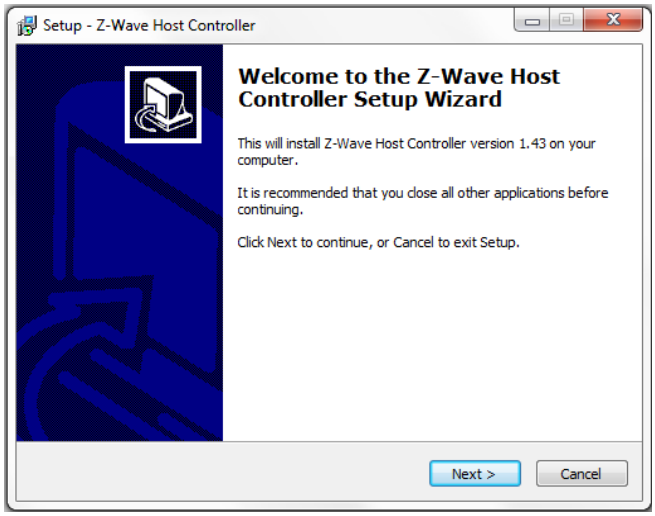
System Requirements

- 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.



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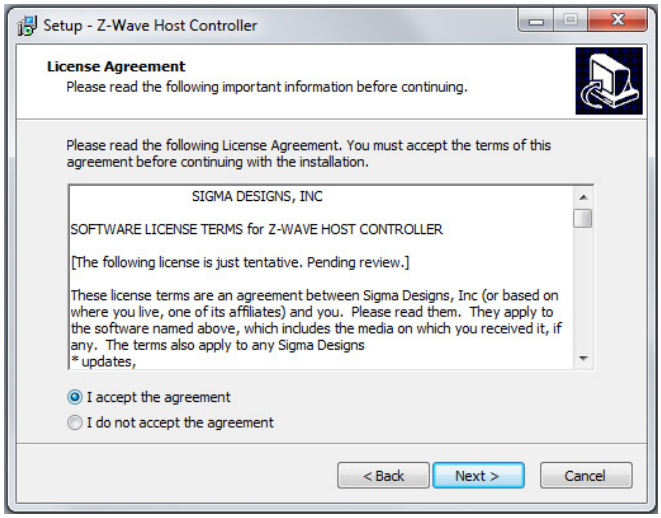

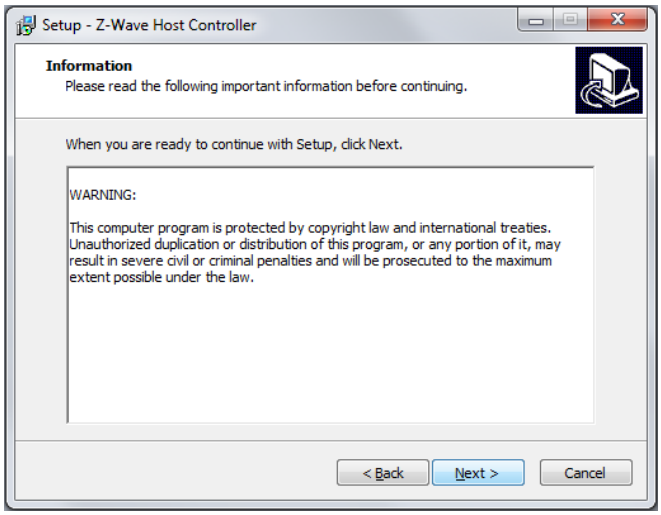

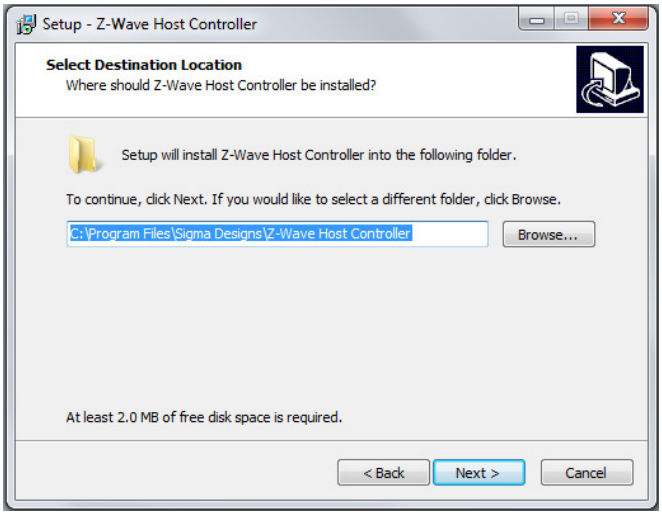

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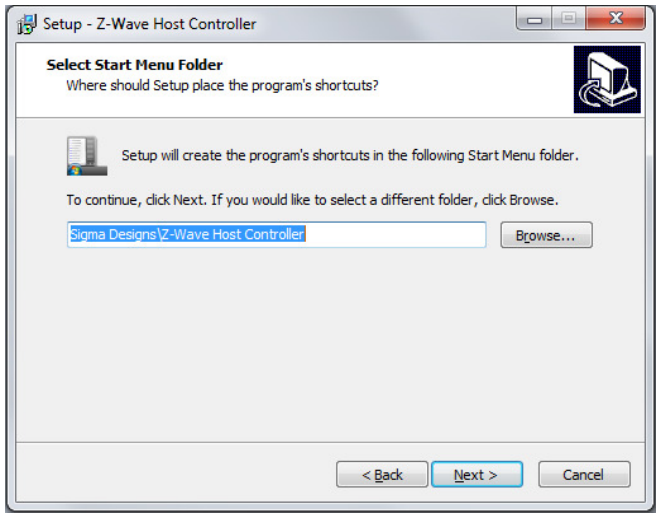

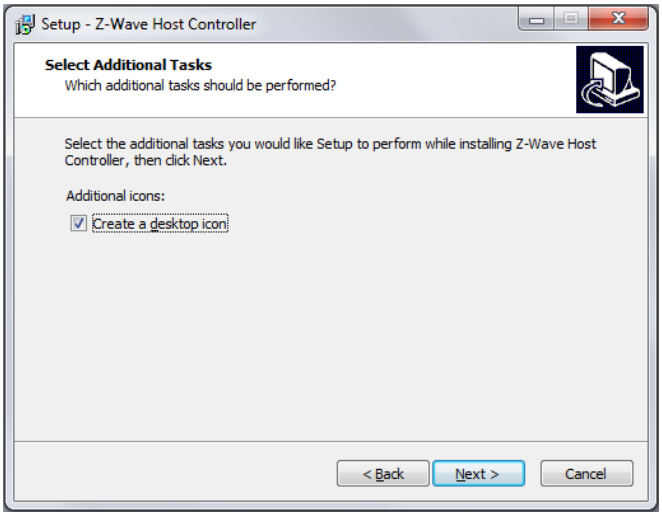

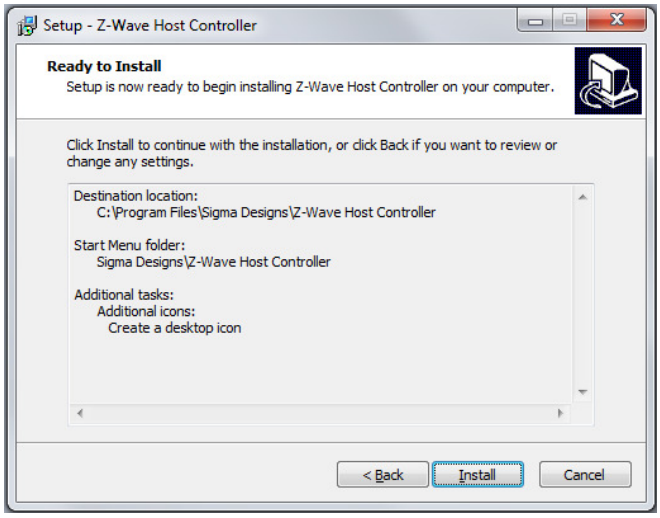

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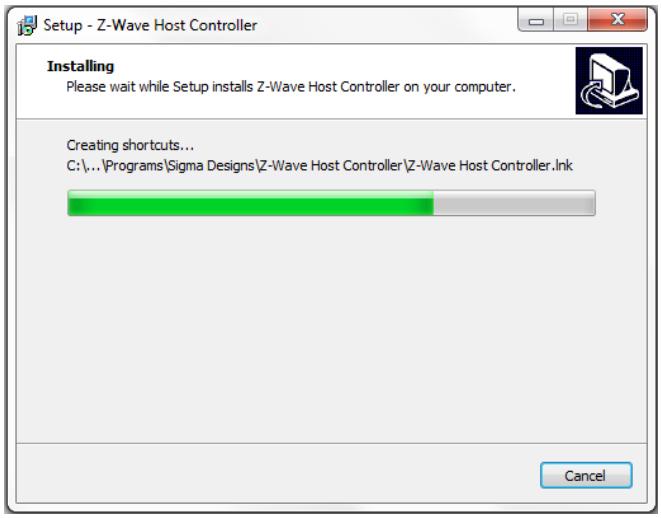
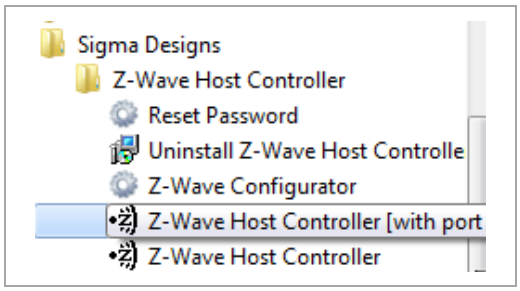


Launching the program can be done from the last step of setup or from the Windows start menu.



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.

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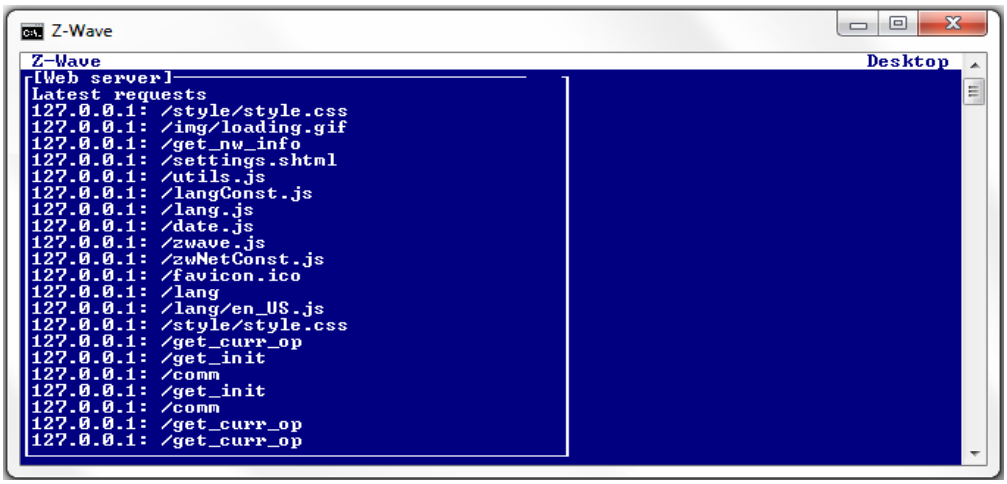
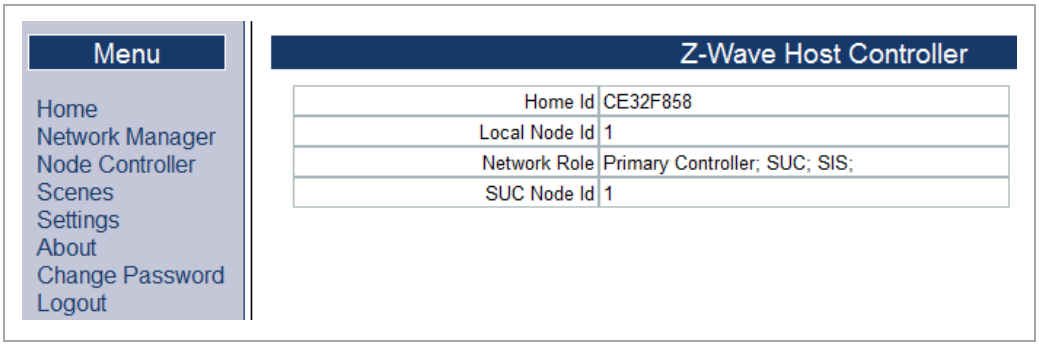


2.3 Using Engineering UI

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.

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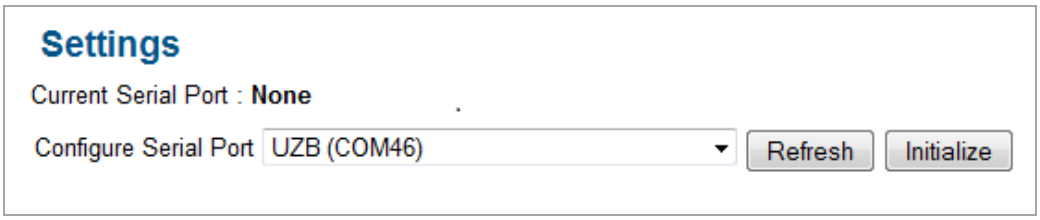
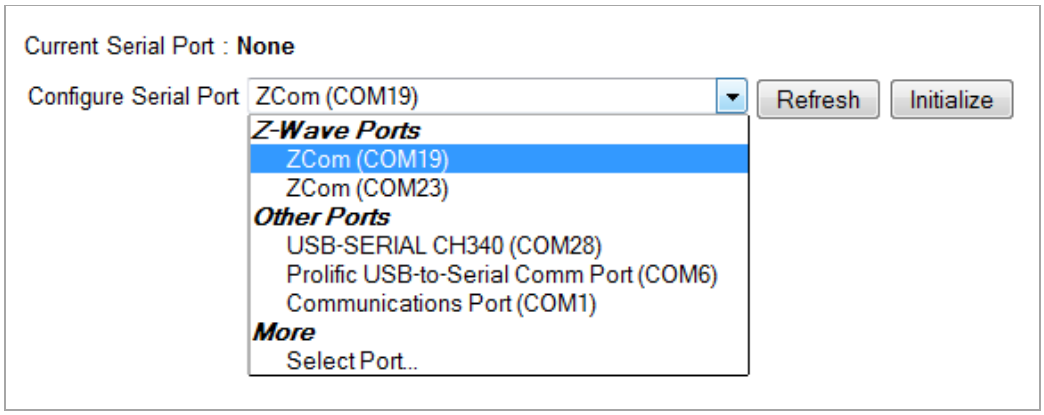
2.3.2 Initialization

2.3.2.1 Classic

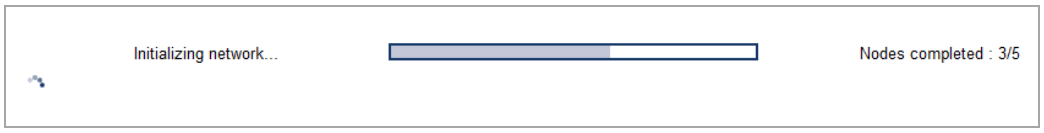
The settings page shown below allows selecting the serial port to connect to the static controller device.



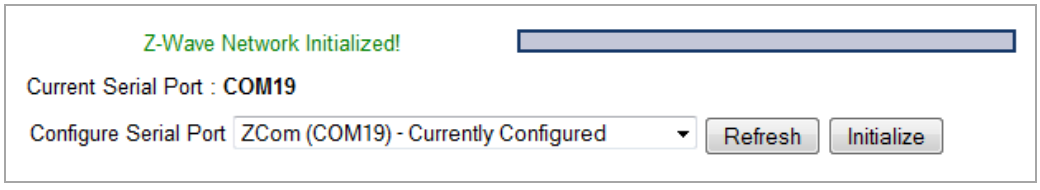
The serial port must be chosen and initialized, as shown in the diagram below. UZB ports are listed first followed by other COM ports. Refresh shows newly inserted UZBs.



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.



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



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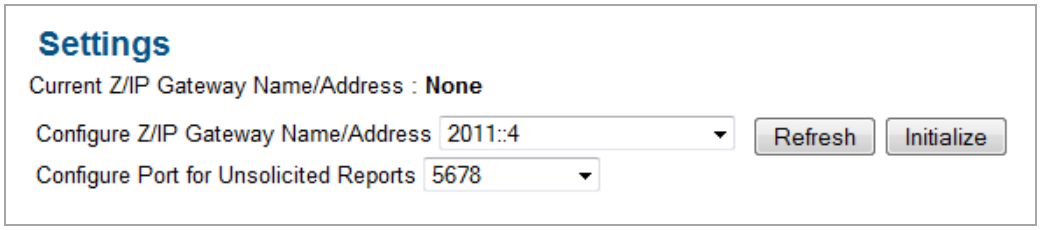
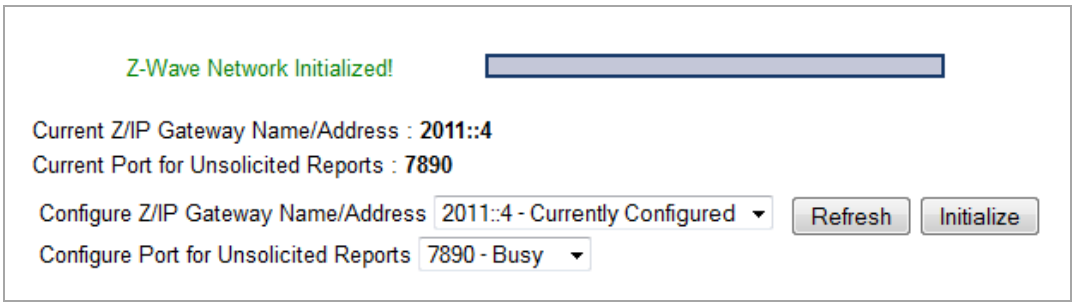
2.3.2.2 Z/IP Local

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



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.



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.

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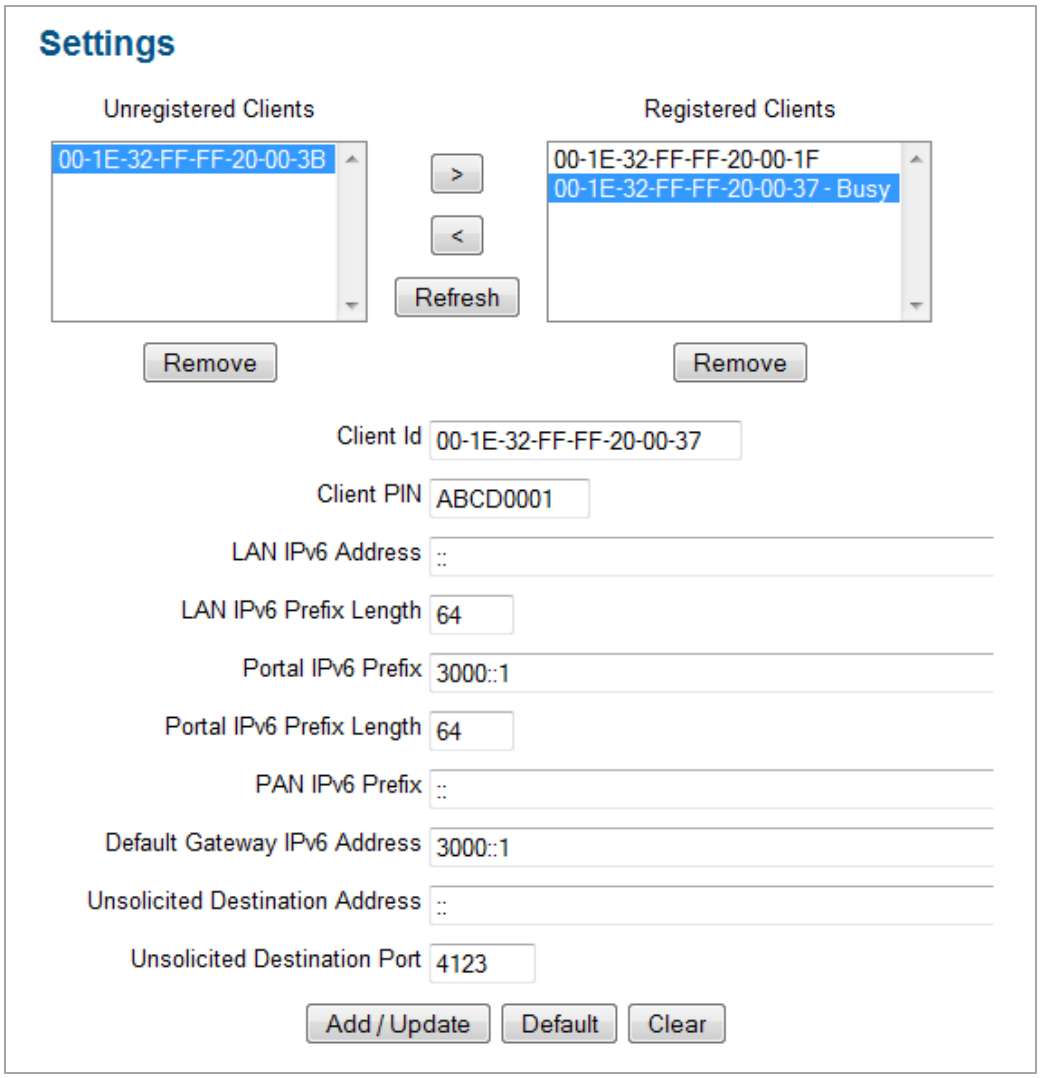
- Unregister a client
    - Select it from ‘Registered Clients’ and press ‘<’ button.

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.



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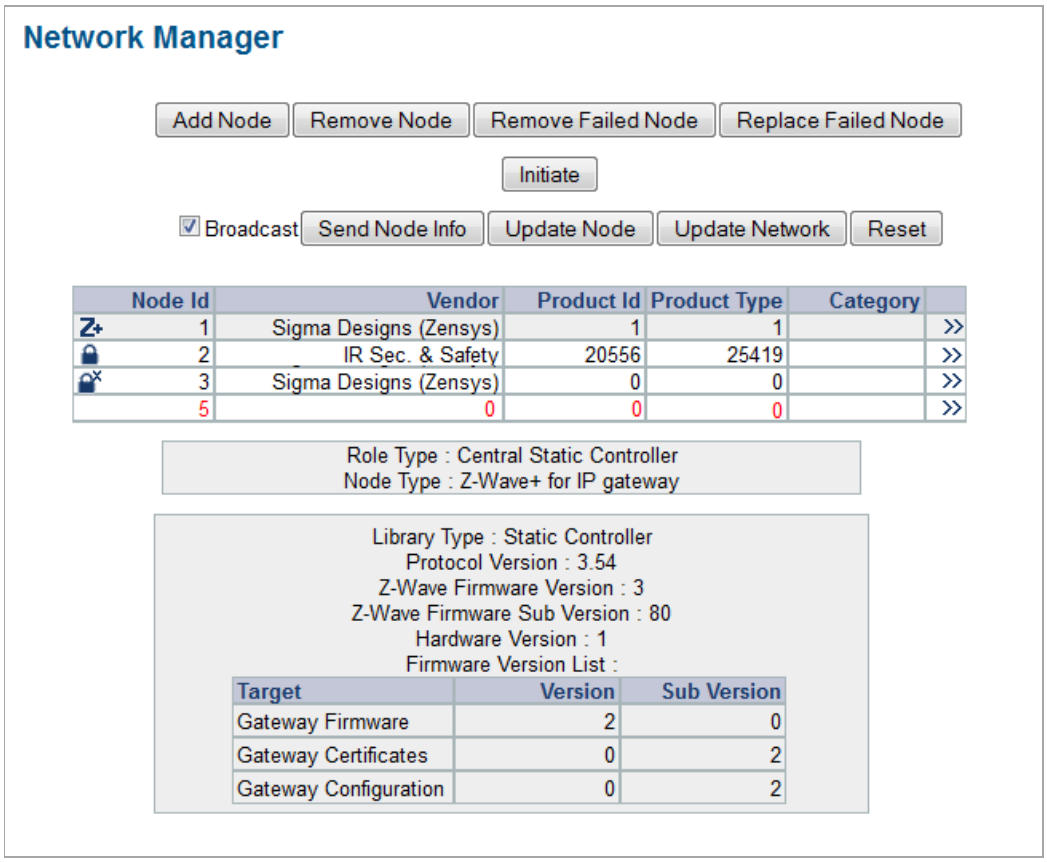
2.3.3 Network Manager

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.



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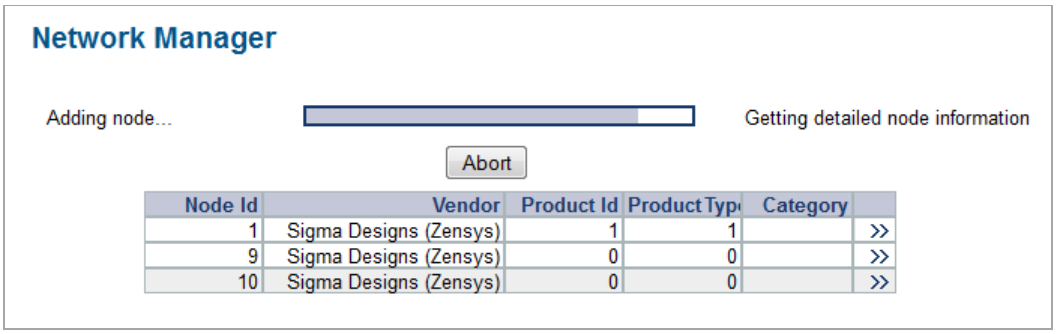
Progress information for all operations is shown to give immediate feedback to the user.



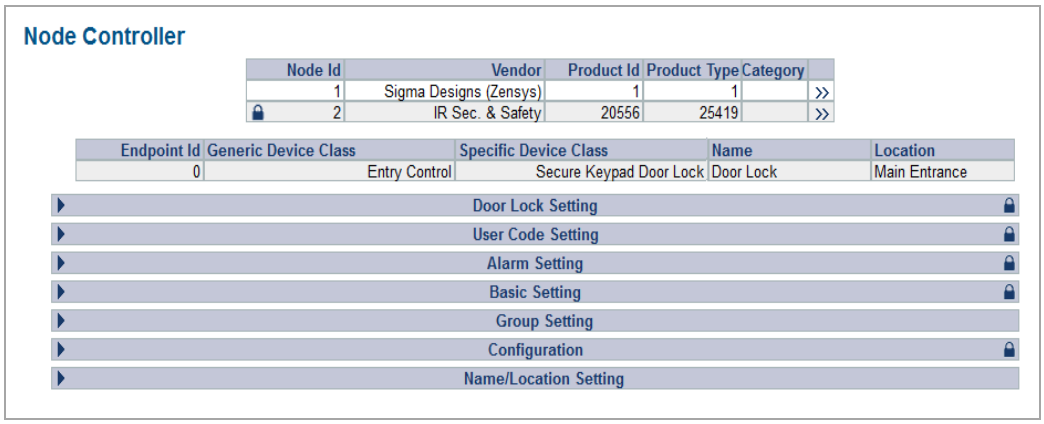
The network operations are similar to what the PC Controller software can do, and therefore will not be elaborated here. A quick map of operations to buttons is provided below.

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.



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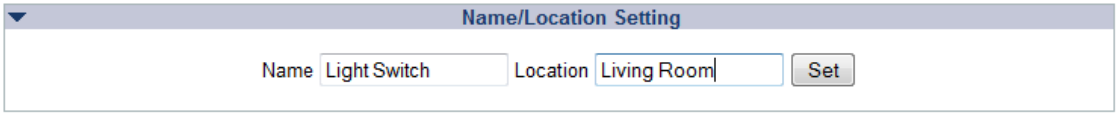
2.3.5 Interfaces

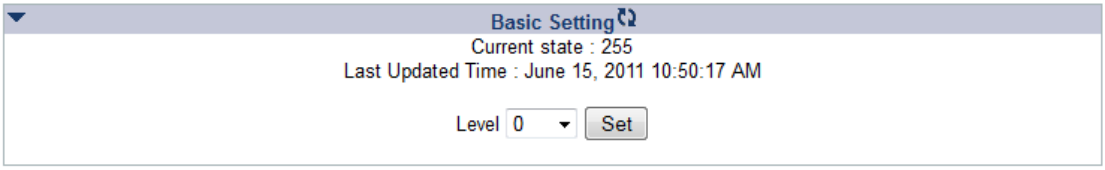
2.3.5.1 Naming/Location

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

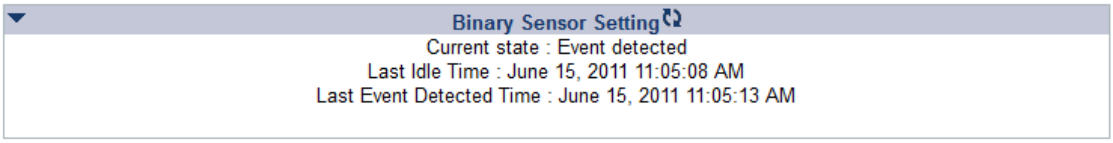


2.3.5.2 Basic

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.

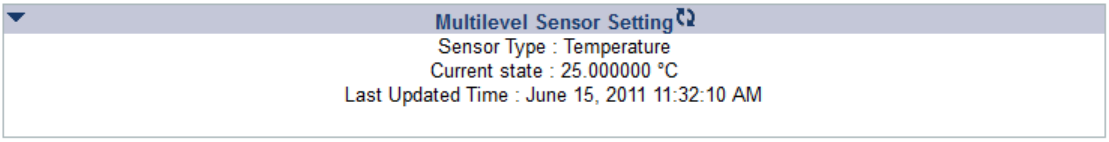


2.3.5.3 Binary Sensor



2.3.5.4 Multi-Level Sensor

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



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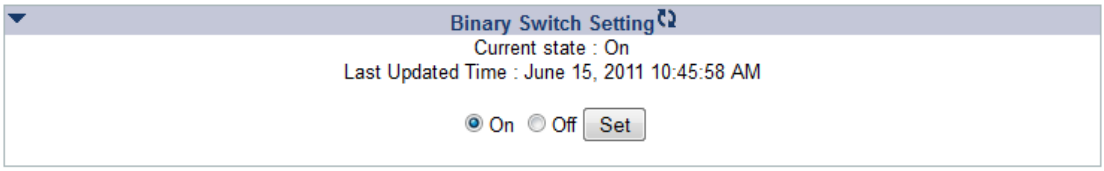
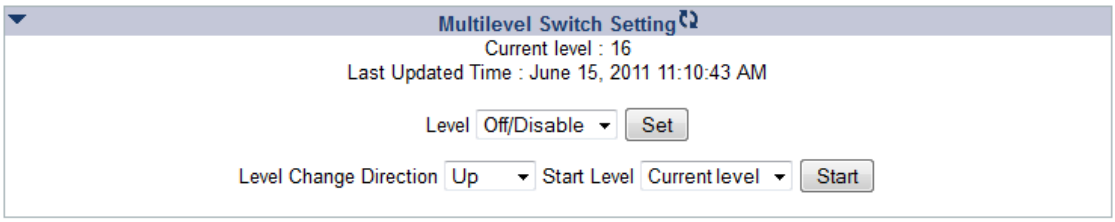
2.3.5.5 Binary Switch

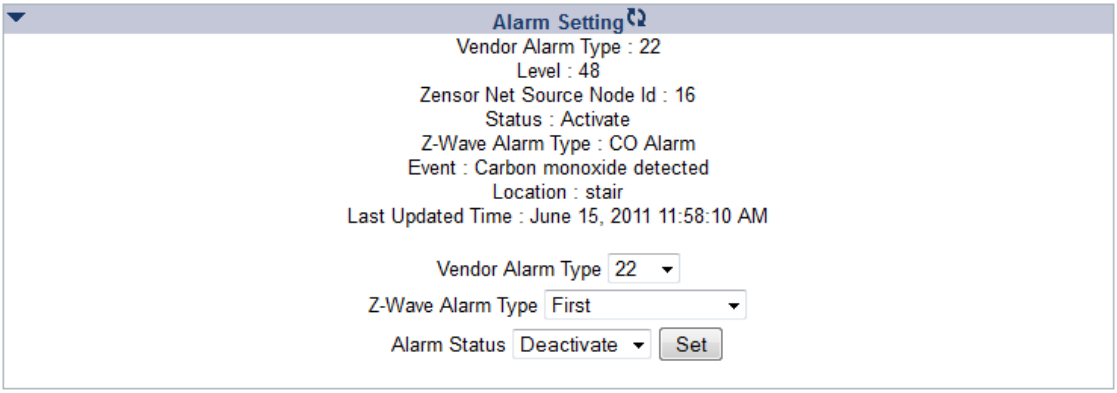


2.3.5.6 Multi-level Switch

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



2.3.5.7 Alarm



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.

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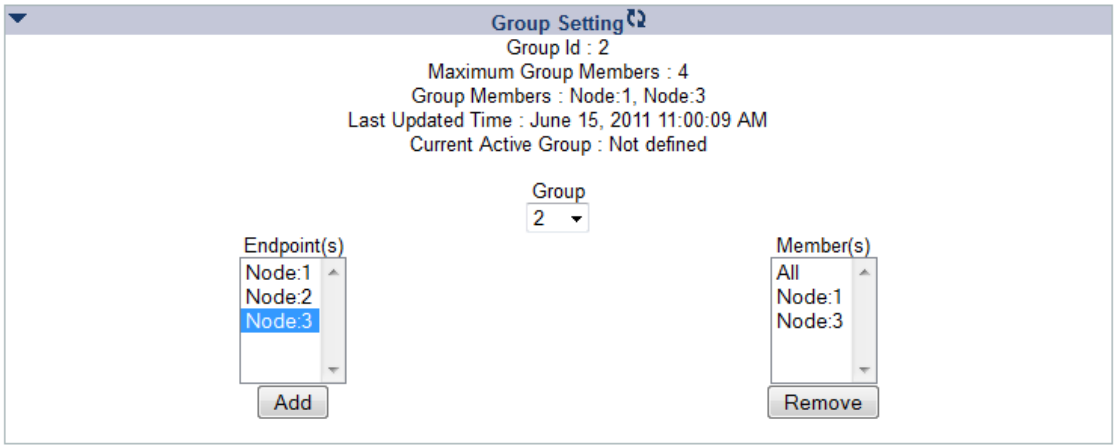
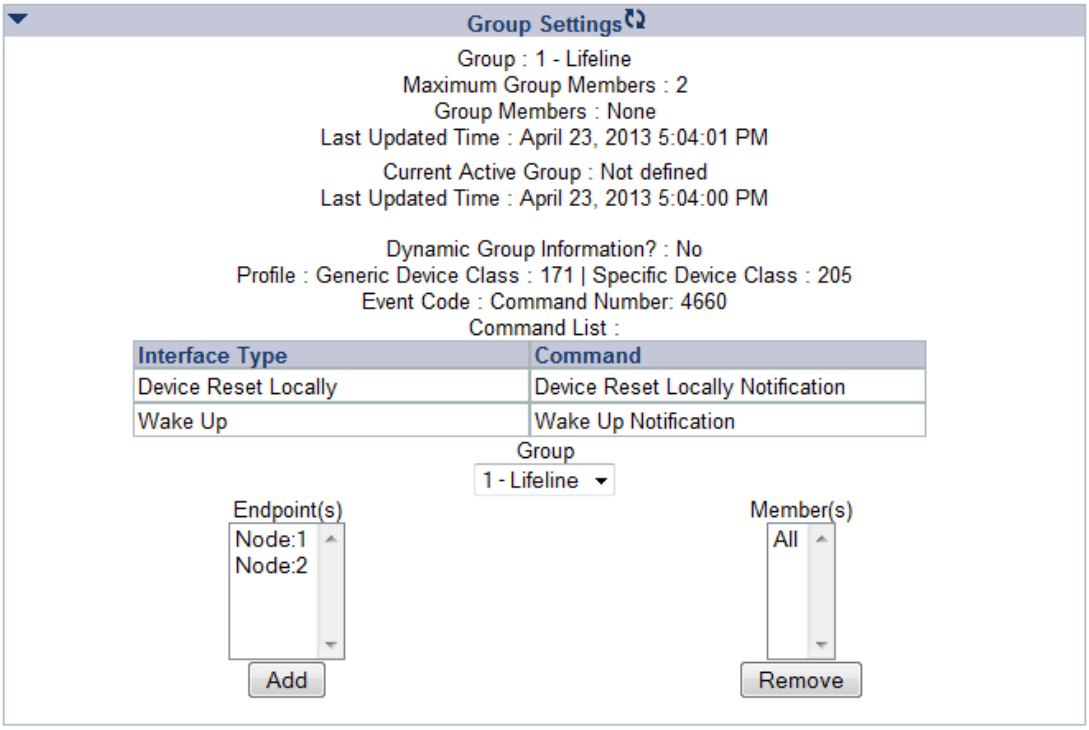


Group configuration of a node that supports Association Group Information (AGI) is shown below.



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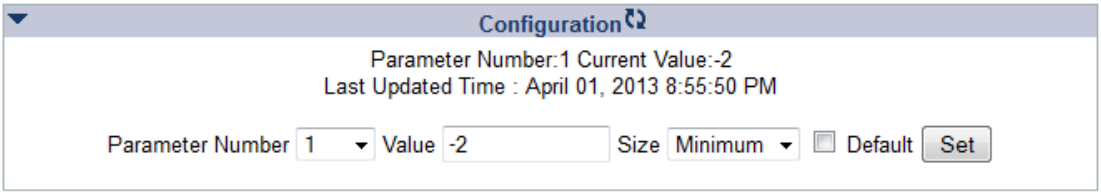
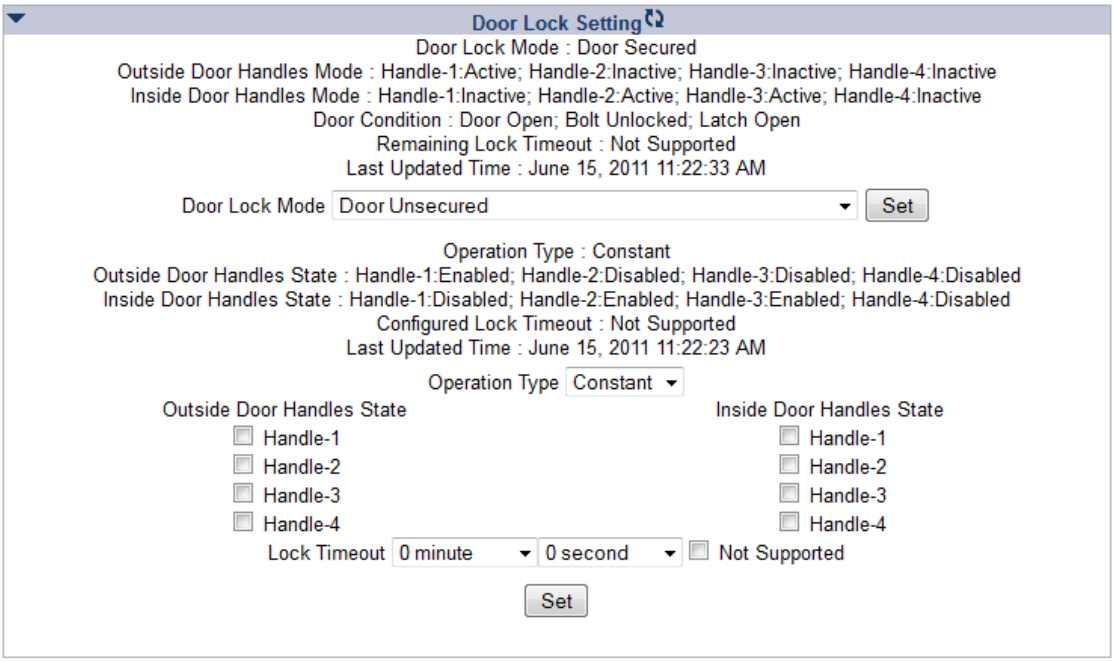
2.3.5.9 Configuration

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.



2.3.5.10 Door Lock



2.3.5.11 Meter

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

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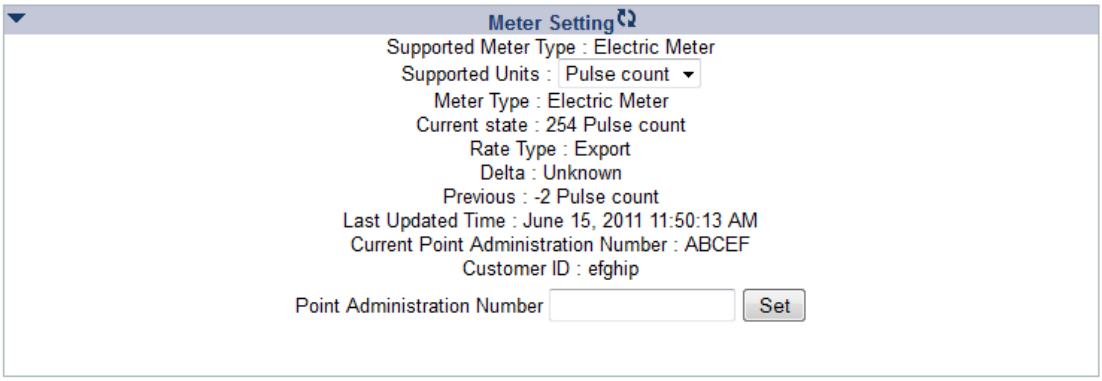
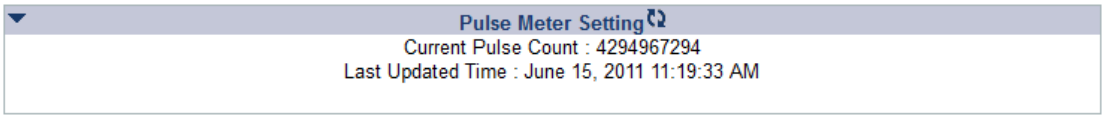
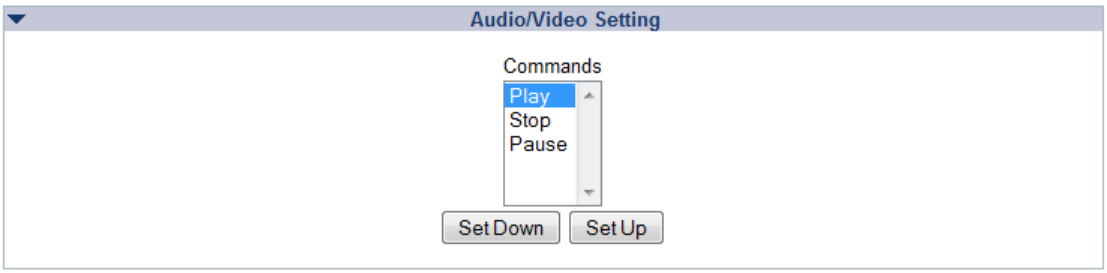


2.3.5.12 Pulse Meter



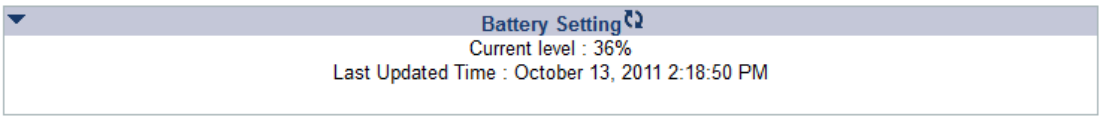
2.3.5.13 AV

Only supported buttons are shown.



2.3.5.14 Battery

Battery level can be monitored form this interface.



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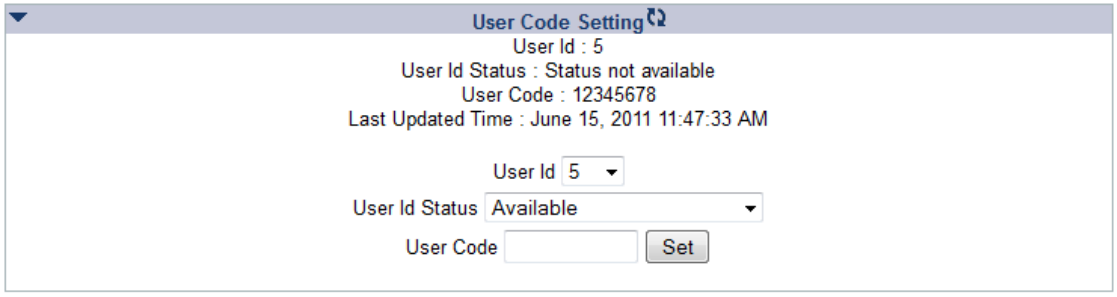
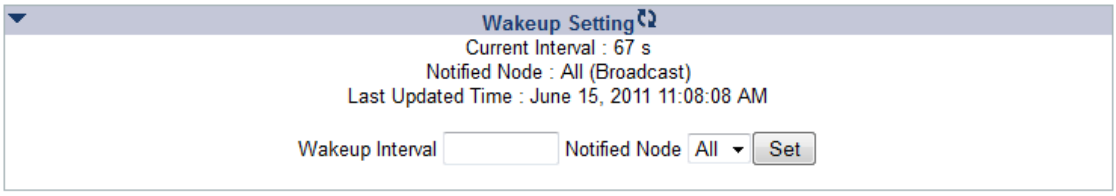
2.3.5.15 User Code



2.3.5.16 Wake up

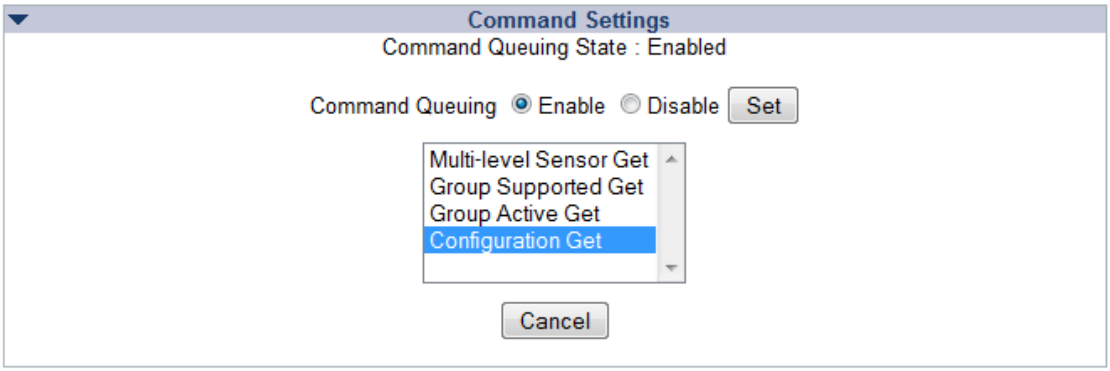
It is strongly recommended that this controller be set as the notified node. Otherwise it will not be able to de-queue commands for this node.



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.



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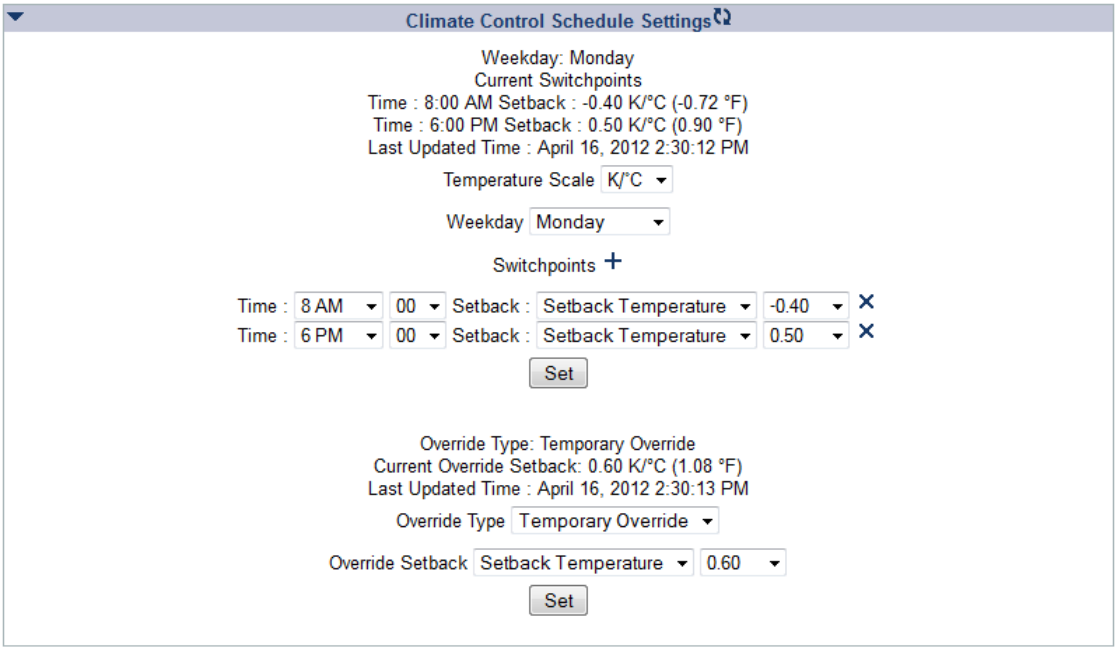
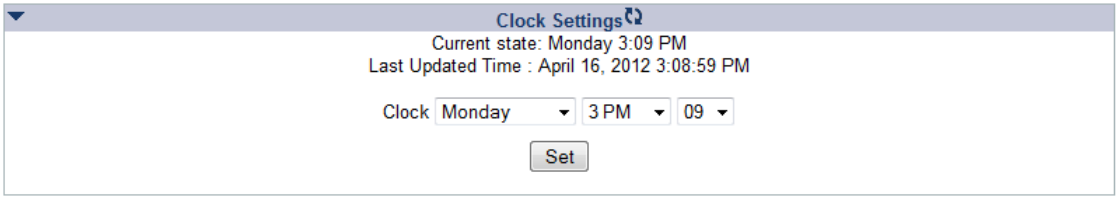
2.3.5.18 Multi Command

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.

2.3.5.19 Climate Control Schedule



2.3.5.20 Clock



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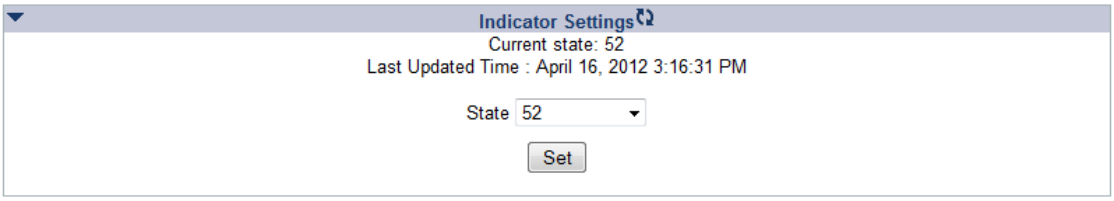
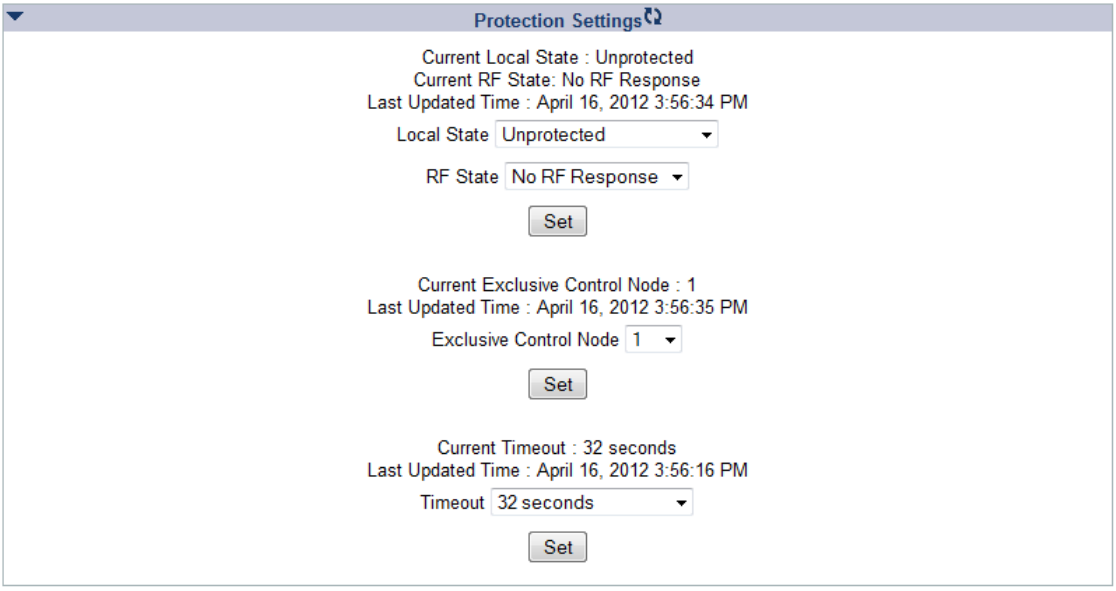
2.3.5.21 Indicator



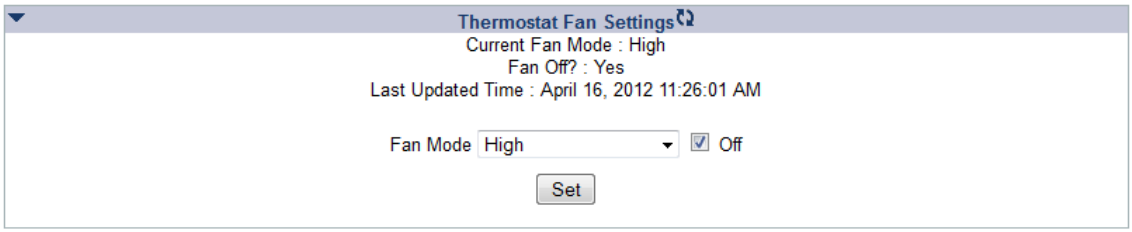
2.3.5.22 Protection



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.



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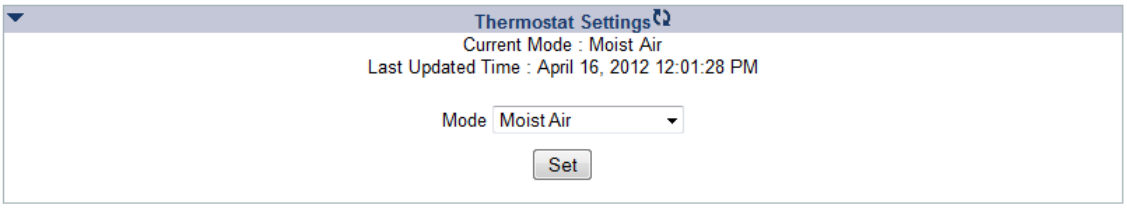
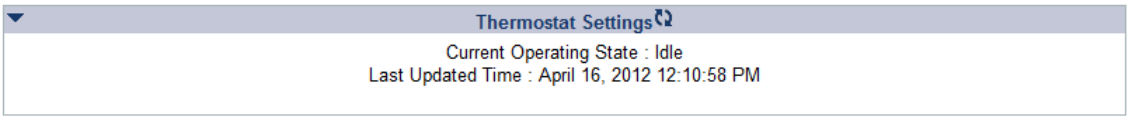
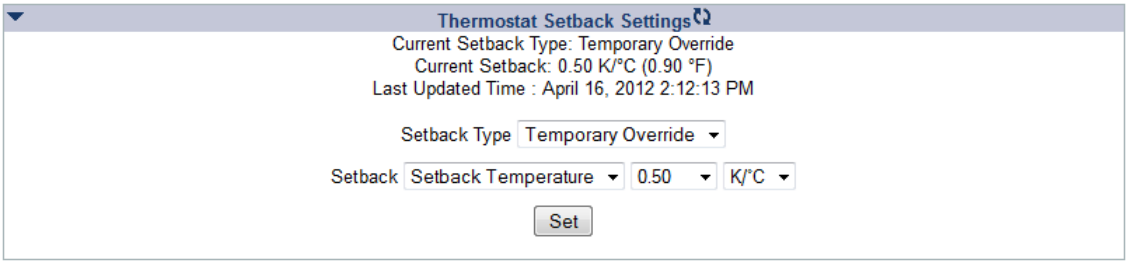
Thermostat mode & state

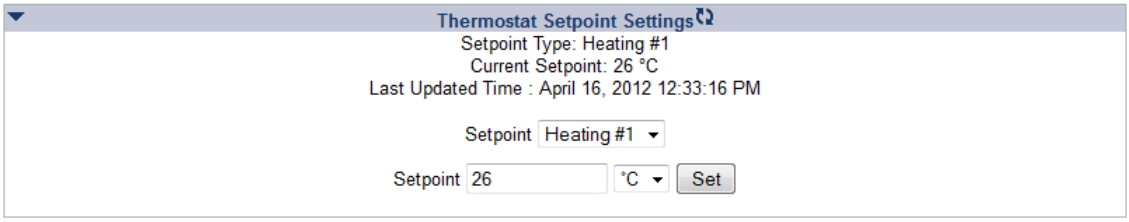
If both interfaces below are available, they will be shown combined in a single frame.





Thermostat Setback & Setpoint





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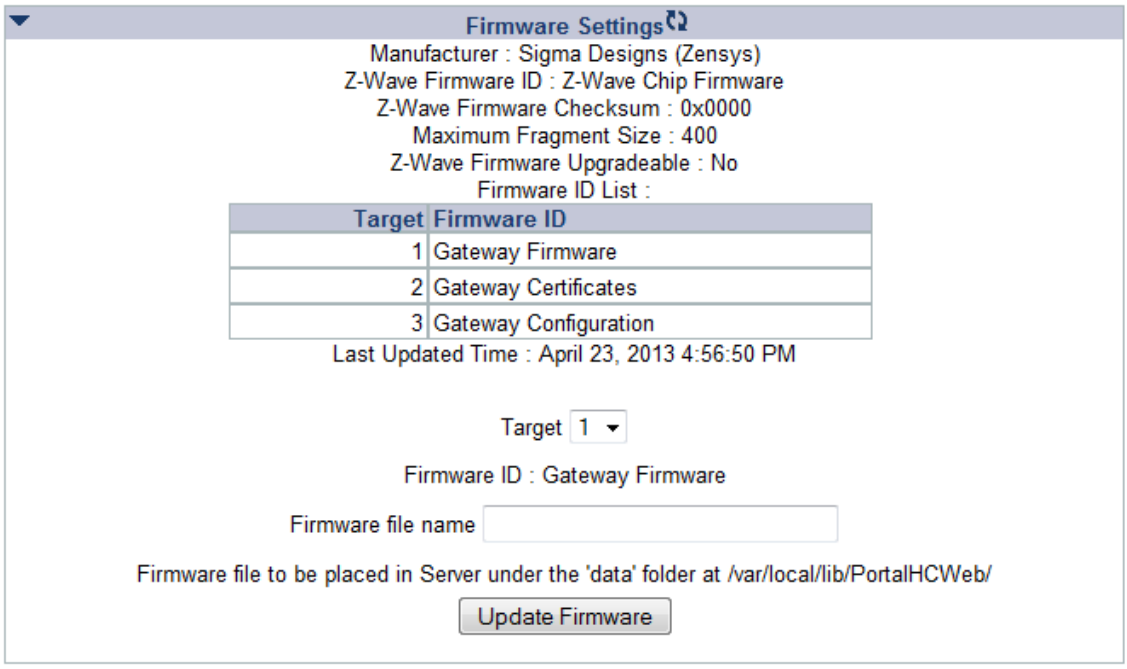
2.3.5.24 Firmware

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.



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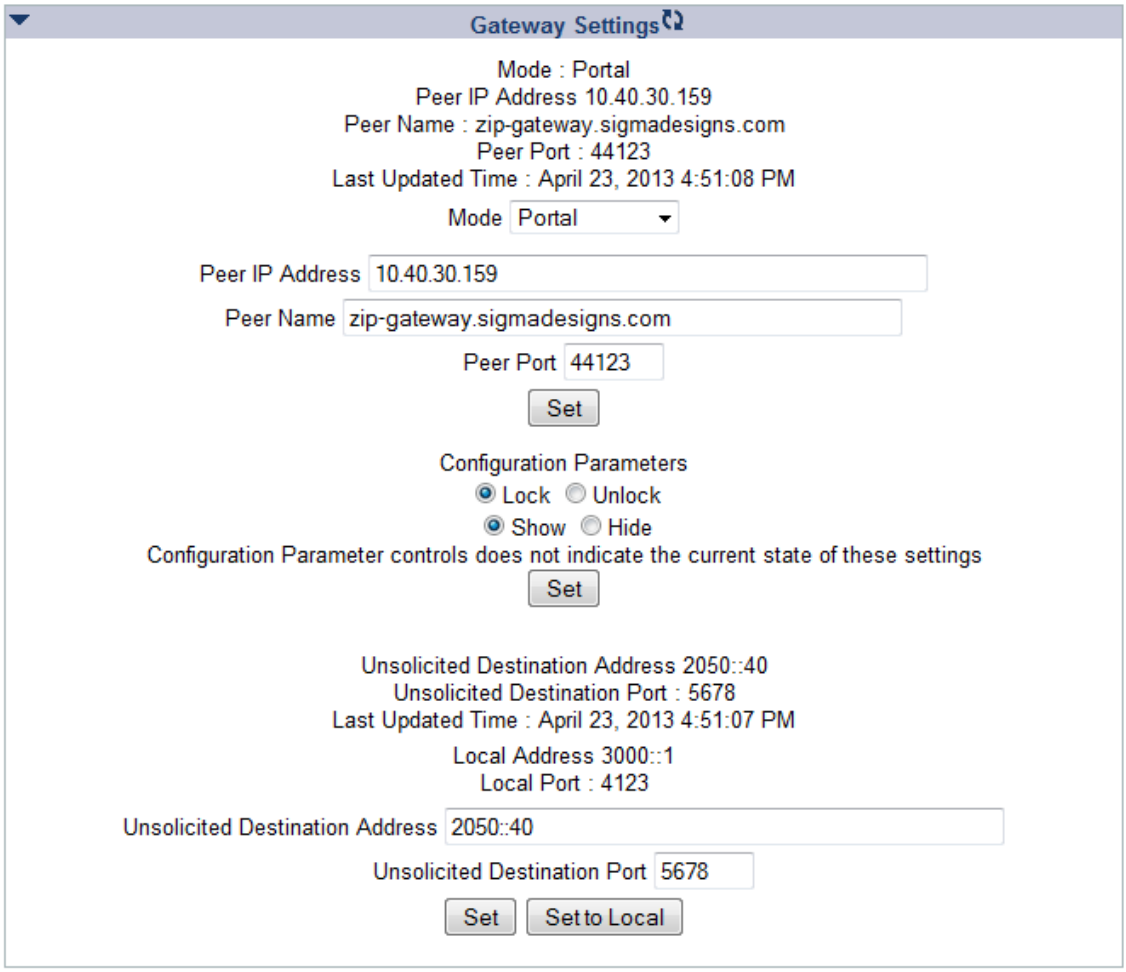
2.3.5.25 Z/IP Gateway

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.



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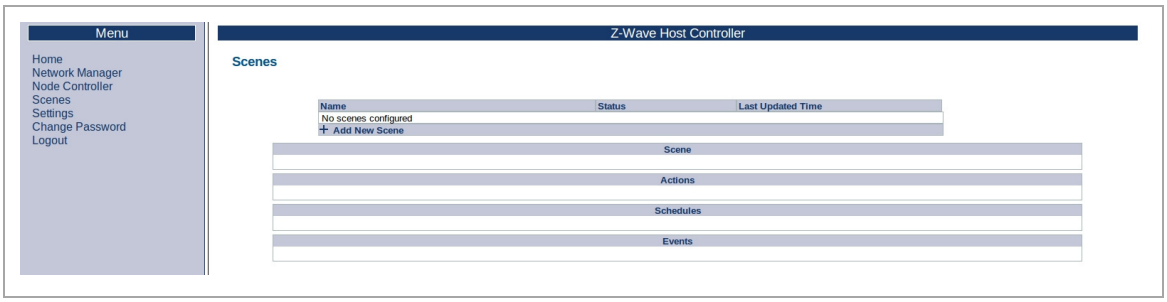
2.3.6 Scenes

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

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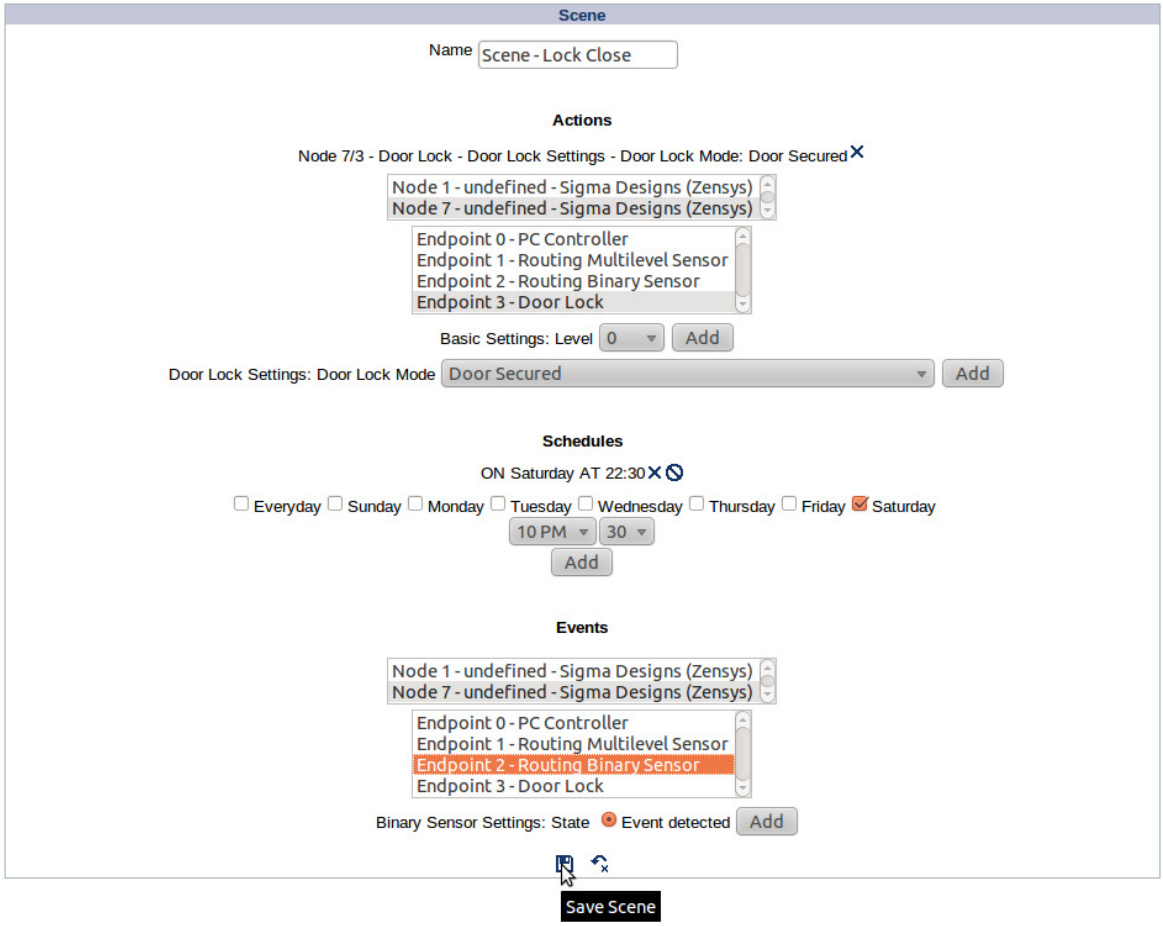
state of the device are shown in Green while others are shown in Orange color. If the status of an Action is unknown then it is shown in default black color.

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.



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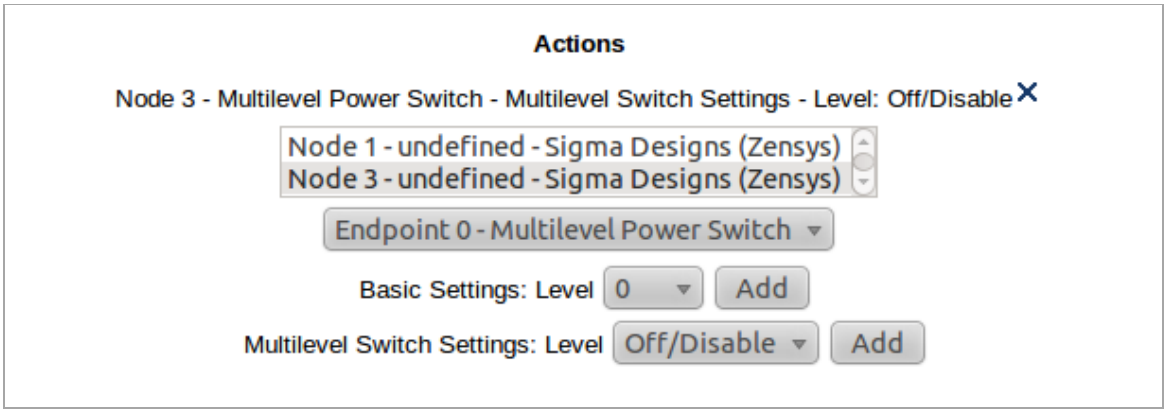
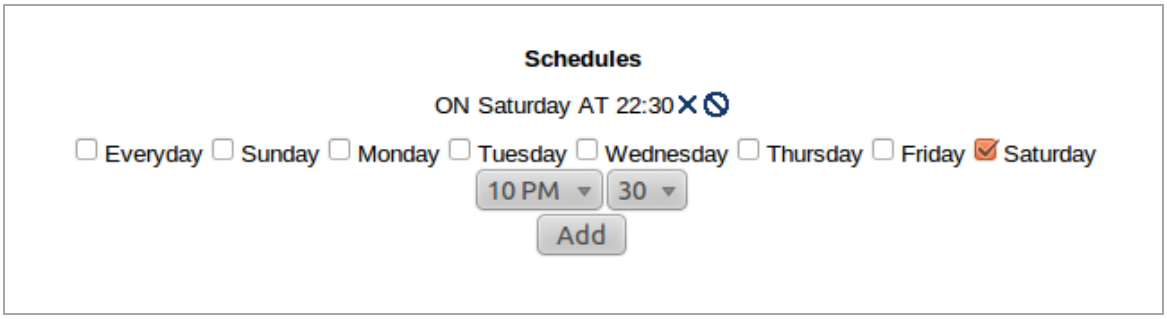
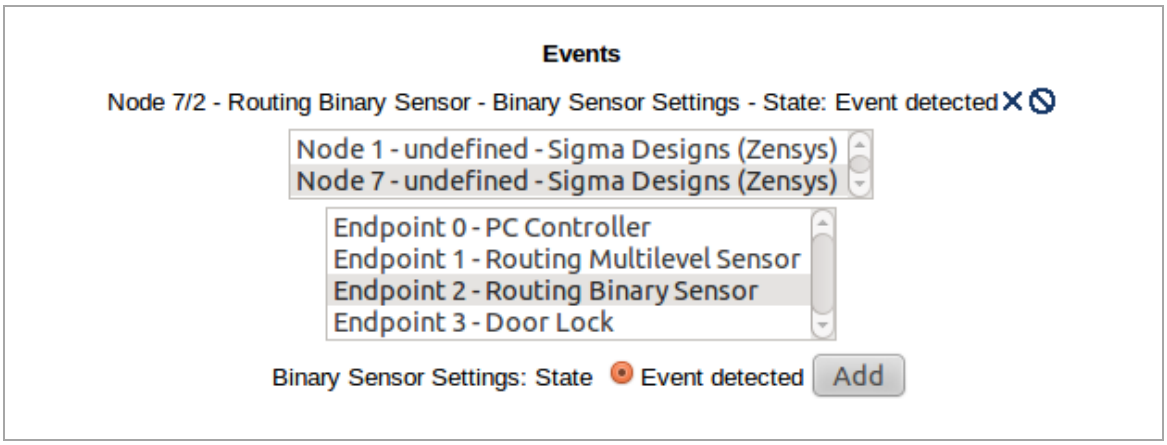
Action (Mandatory)



Schedules (Optional)



Events (Optional)



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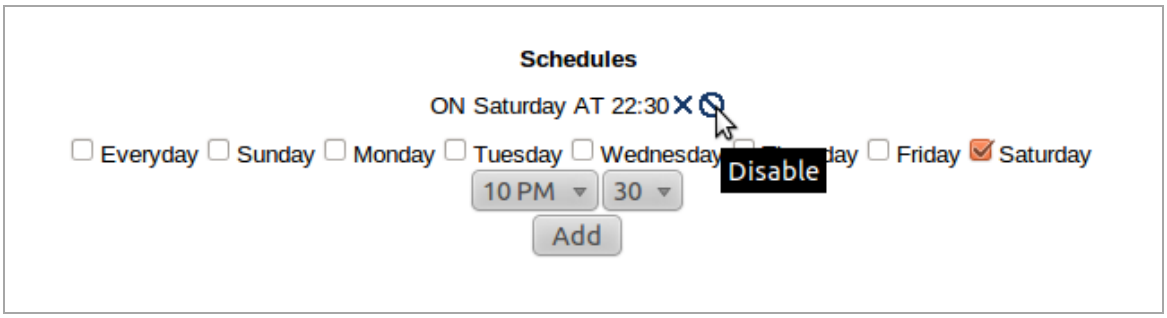
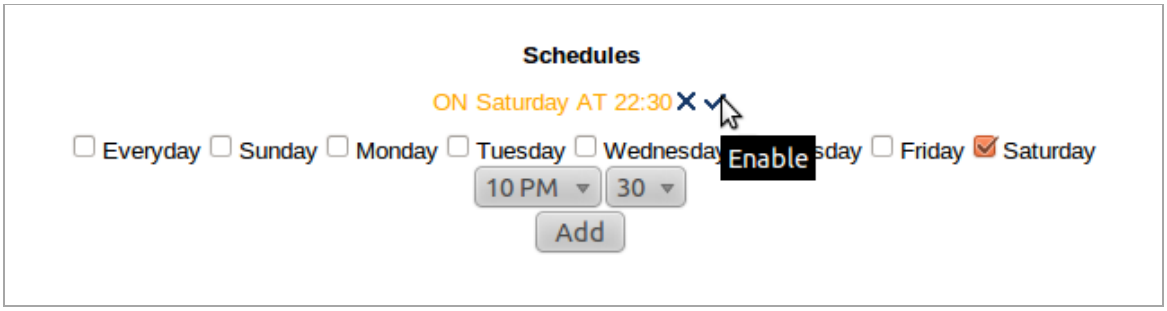
Enable/Disable Scene Schedules and Events

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

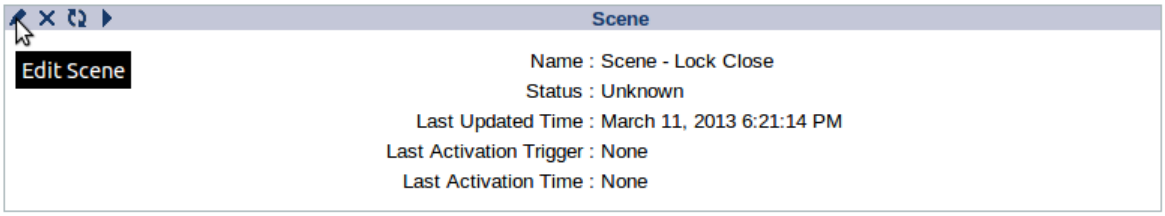


The disabled Scene Schedule or Event is shown in orange colour. The disabled Scene Schedules and Events do not trigger a Scene even if the condition specified in the disabled Schedule or Event is met.



2.3.6.2 Edit Scene

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



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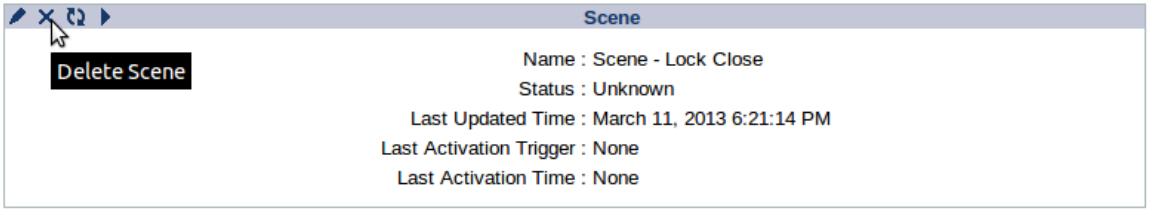
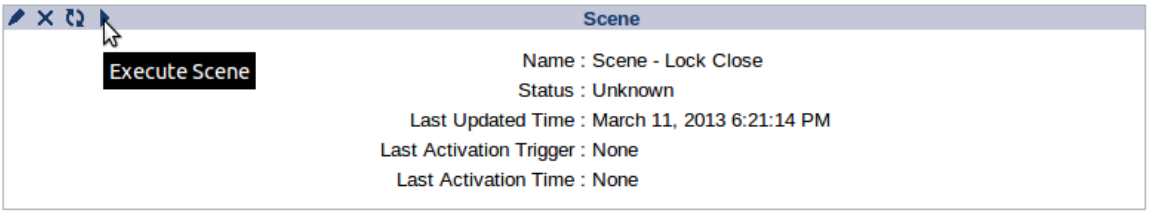
2.3.6.3 Delete Scene

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



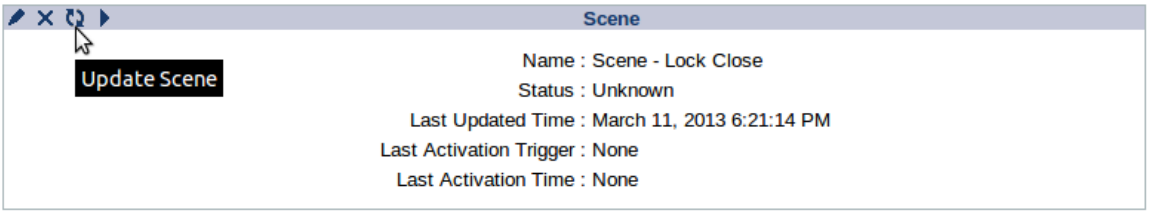
2.3.6.4 Execute (Activate) Scene

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.

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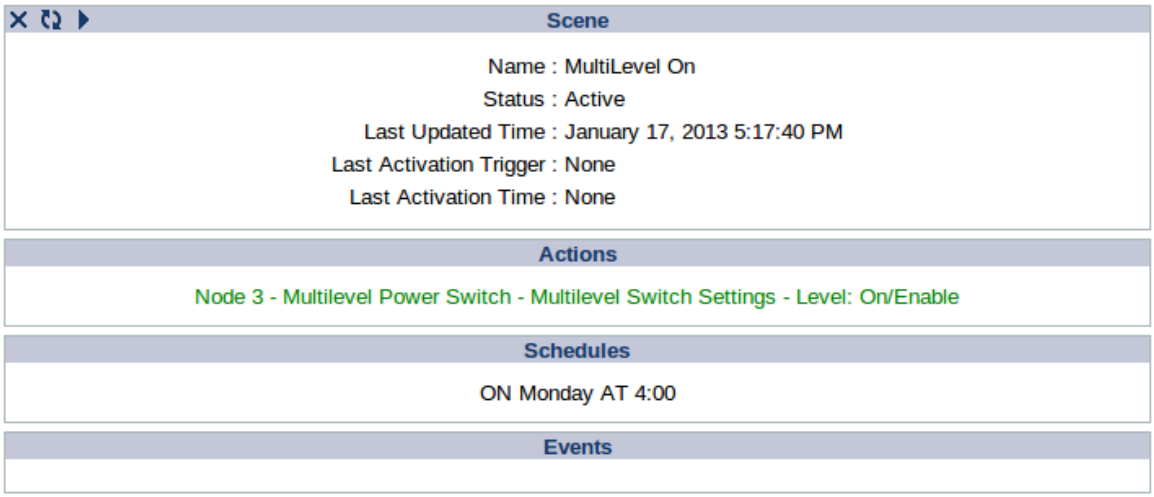
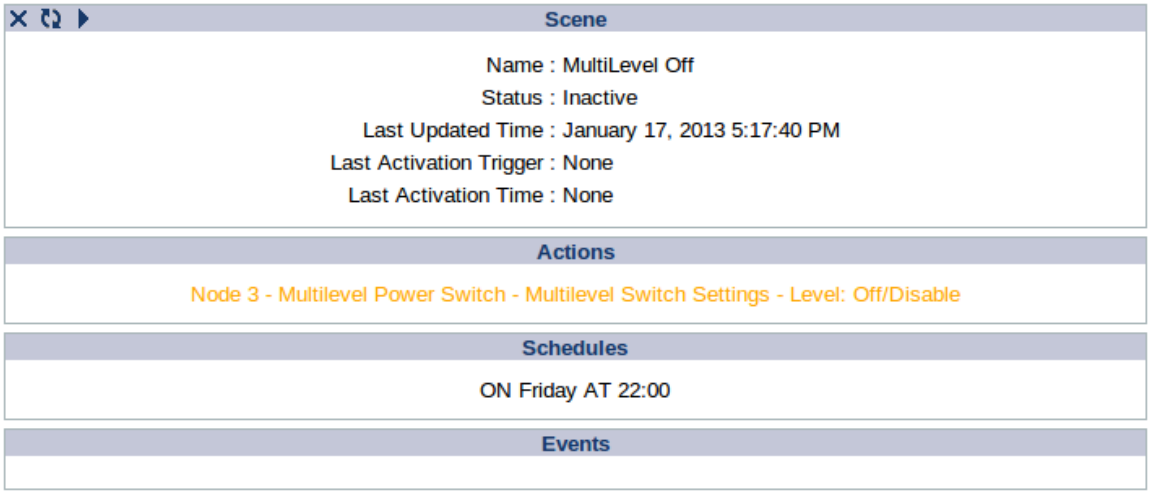
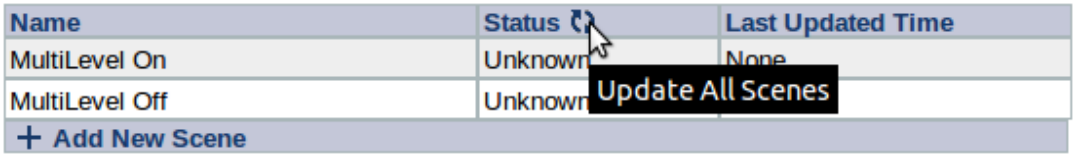


The “Inactive” Actions are shown in orange colour.



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.



After the update, different Scenes may have different status.

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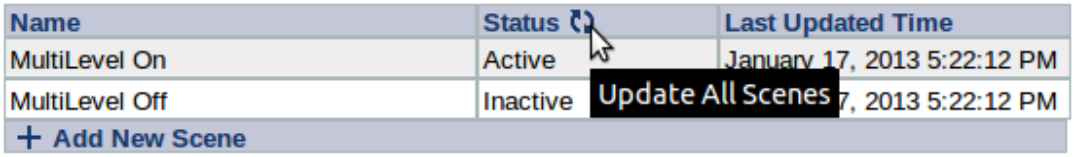
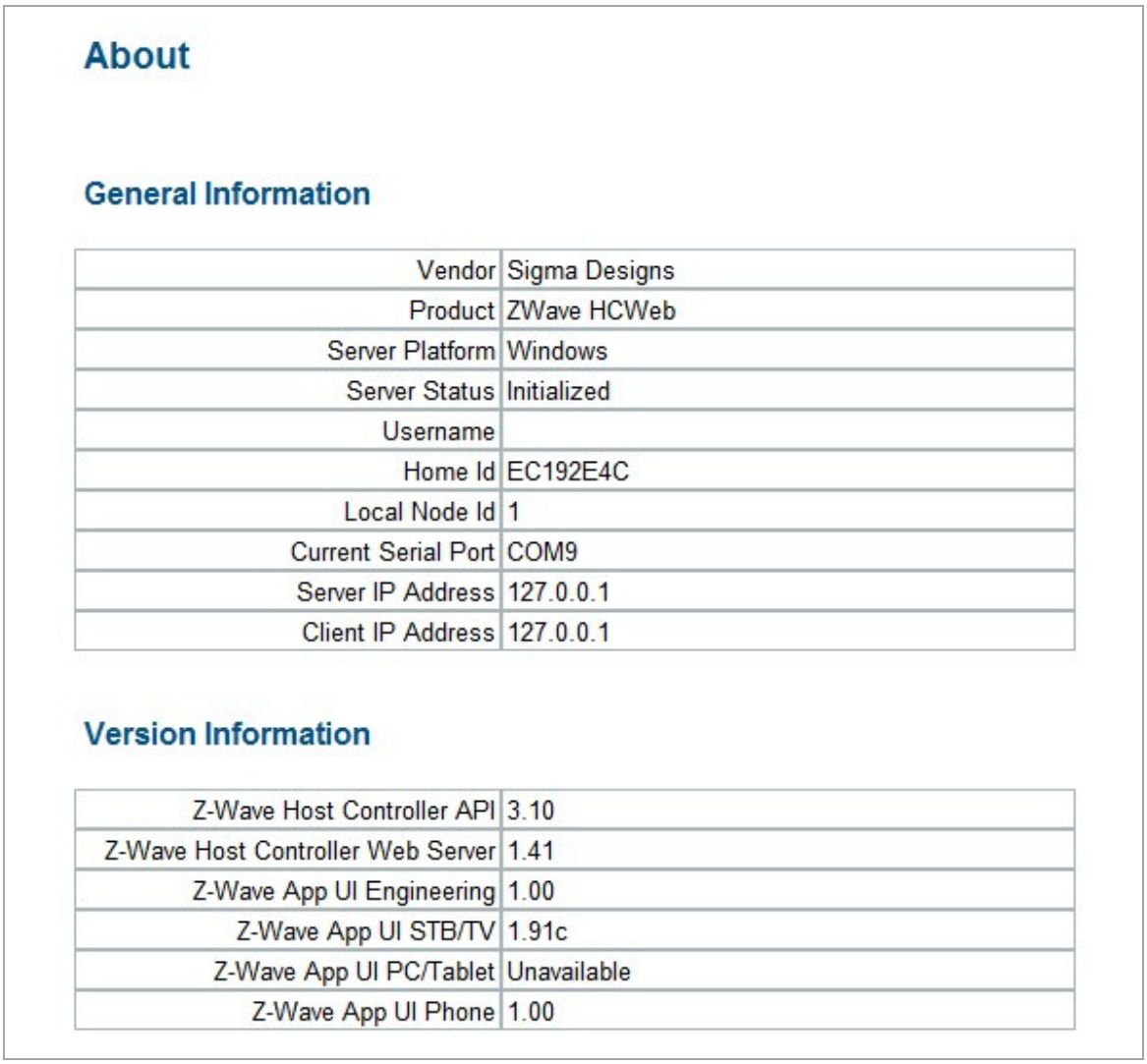


2.3.6.7 About

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.



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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.

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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

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CE 0560

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

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

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