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# WiDom MultiSensor Room Controller

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## Introduction

WiDom MultiSensor Room Controller is Z-Plus certified Static controller that integrate a Luminance, Humidity, Temperature and loudness sensor in the same box. It can control binary switch, dimmer, thermostat, roller, sensor and alarm in a security environments with 128-bit AES encryption.

WiDom MultiSensor Room Controller can operate with Z-Wave devices from any other manufacturer. As main powered device will act as signal repeater to increase the network reliability.

WiDom MultiSensor Room Controller does not map the Basic Command Class to any functionality. It ignores Basic Get/Set requests

WiDom MultiSensor Room Controller can be included (if it are not jet included other Z-Wave nodes) in other Z-Wave Network and can ether included other controller.

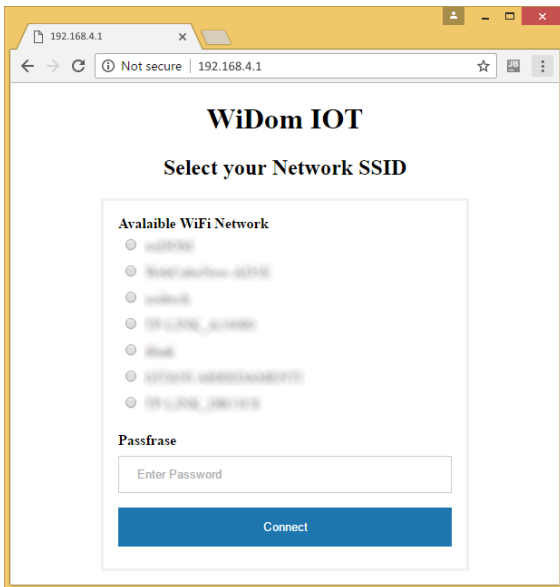
WiDom MultiSensor Room Controller has one association group, the "Lifeline" group, which supports sending associated devices reset notifications when the Hub is factory reset.

## Initial Setup

At the first run of the controller it starts in Access Point Mode. And Show a SSID name look like WiDomIOT\_xxxx where "xxx" are for digit in the range of 0-F.

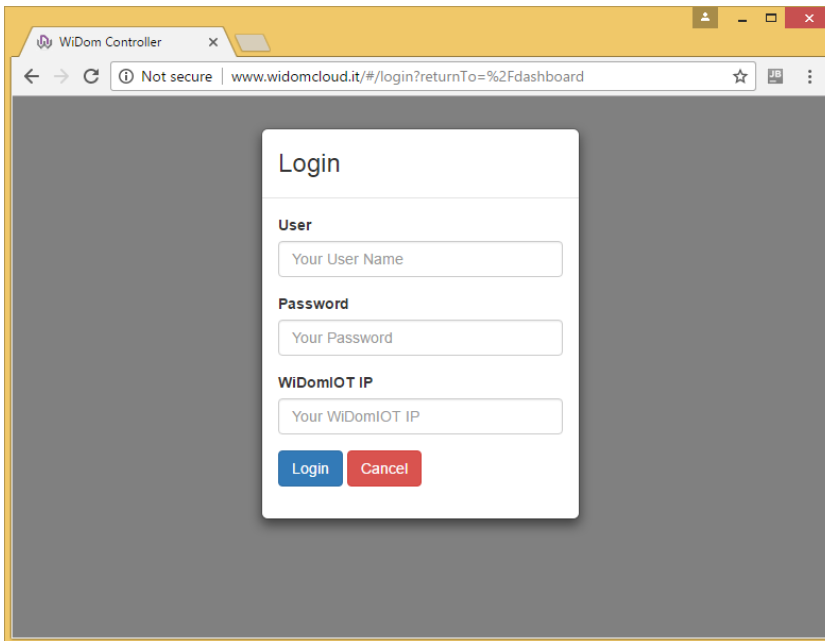


You have to connect to this SSID and prompt "12345678" as password. As soon as the connection has been establish open a browser and go to this address: <http://192.168.4.1>. It will show you all the WiFi networks see by the controller. You have to choose a WiFi network and provide a passphrase in order to connect the device to the specified WiFi Network.



The device will make a reboot and it will connect to WiFi Network. If for any reason the connection will not be establish correctly it will restart in AP Mode; if the connection has been establish correctly you have to find the ip address of the controller provided by your WIFI access point\Router.

Go to [www.widomcloud.it](http://www.widomcloud.it) and fill the login for by providing user, password and WiDomIOT IP. User and password are both equal to "admin" and the WiDomIOT IP is the IP address of the controller in your network.



After the successfully login will be show your dashboard. You can change your password by clicking on the user icon.

WIDom Controller

www.widomcloud.it/#/dashboard?returnTo=%2Fdashboard

admin

home

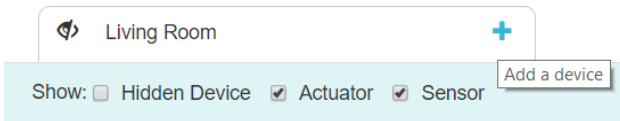
Kitchen

Show:  Hidden Device  Actuator  Sensor

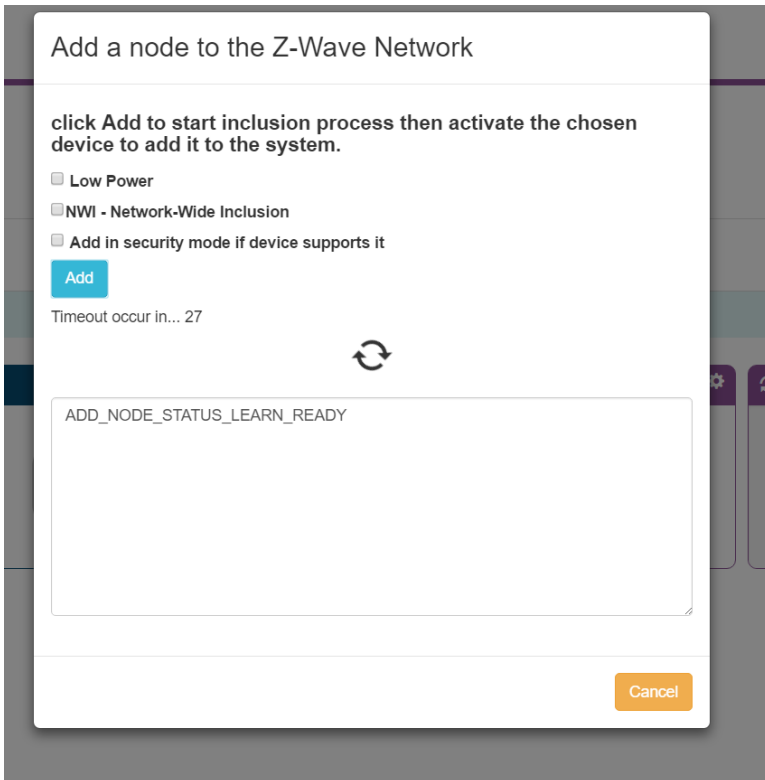
005 TEMPERATURE 19.2 °C	006 HUMIDITY 53 PERCENTAGE	007 LUMINANCE 145 LUX	008 LOUDNESS 26 DB
EnergyDriven ON OFF	EnergyDriven POWER 0 WATT	EnergyDriven ENERGY 0 KWH	EnergyDriven VOLTAGE 247.1 VOLT
EnergyDriven CURRENT 0 AMPERE	EnergyDriven POWERFACTOR 0 PERCENTAGE	DoubleSwitch 1 ON OFF 0 Watt	DoubleSwitch 2 ON OFF 0 Watt

## Including (add) new device in the network

A Z-wave device, either slave or controller, can be added by click a plus icon in each rooms in the dashboard.

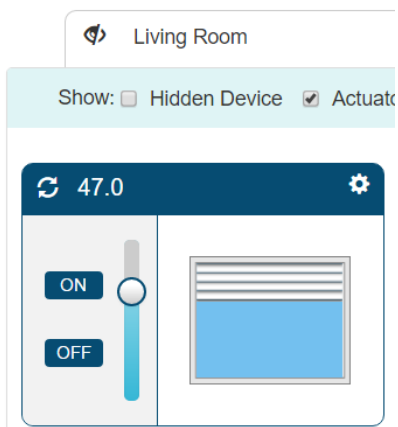


Then a pop-up window will be displayed and the user can chose how to perform the inclusion by setting the security option, Low Power and Network Wide Inclusion options and then press Add Button.



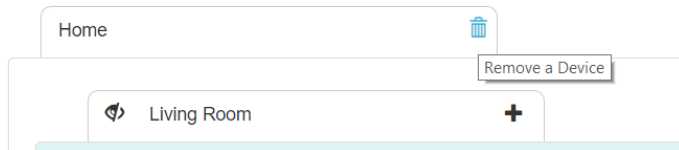
As soon as the inclusion Log show “ADD\_NODE\_STATUS\_LEARN\_READY” the user can active the Learn mode in the device to be included. The inclusion process can take a while to perform all the steps including the interview of the device in order to discover their capabilities.

As soon as the inclusion process has been terminated the pop-up windows will be closed and the device will be show in the dashboard.

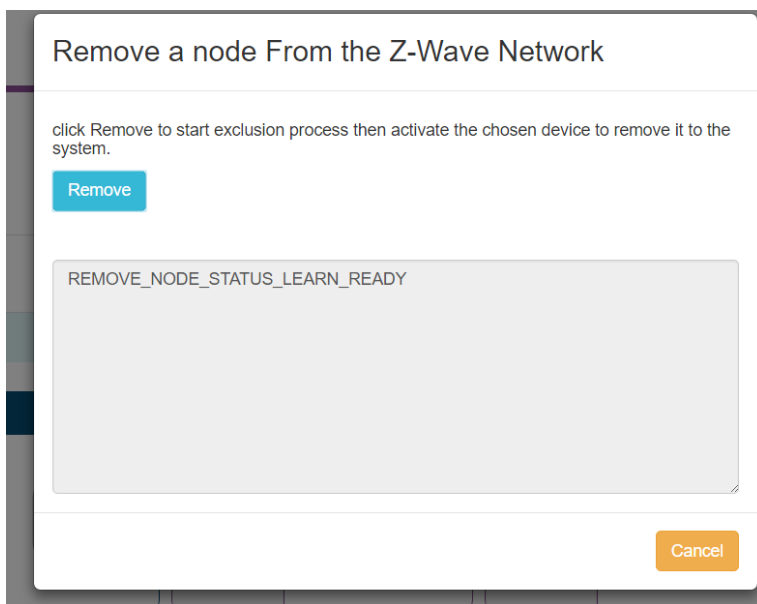


## Excluding (remove) a device from the network

A Z-wave device, either slave or controller, can be Removed by click in the Trash icon located in the header dashboard



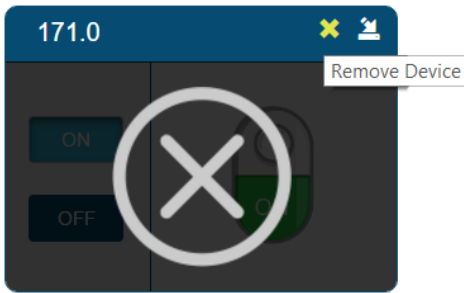
Then a pop-up window will be displayed and the user has to press the “Remove” button. As soon as the Exclusion Log show “REMOVE\_NODE\_STATUS\_LEARN\_READY” the user has to get the device into “Learn Mode” by following the instruction of the device manufacturer.



As soon as the exclusion process has been concluded a dashboard will be reloaded without the device that has been removed.

## Remove Failing Node

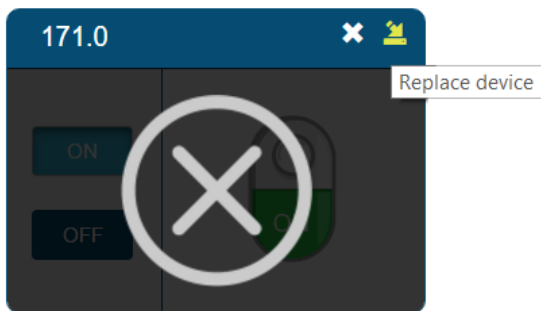
If a device will be recognized by the controller as failing node it will be showed in the dashboard in this way.



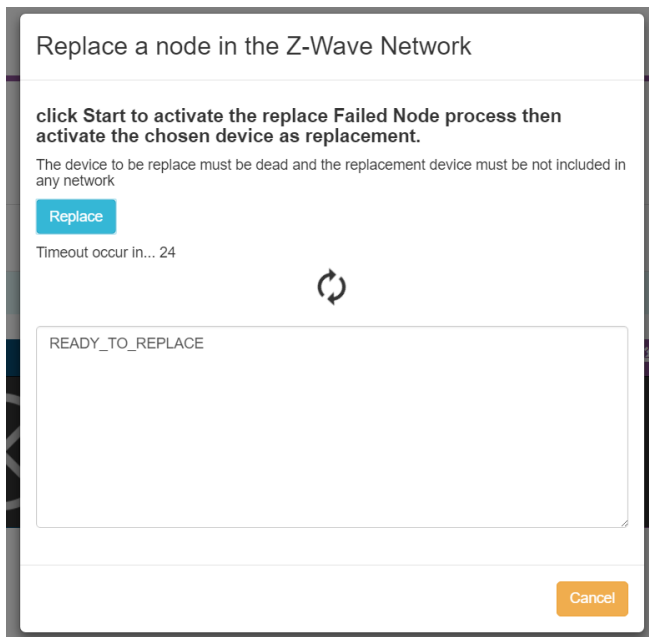
The user can decide to remove the device by clicking the “cross” icon. At that point the controller check again if the device are still failing and if it is confirmed the device will be removed.

## Replace a Failing node

If a device will be recognized by the controller as failing node it will be showed in the dashboard in this way.



The user can decide to replace the device by clicking the “replace” icon. A pop up window will be showed and the user has to click on replace Button



As soon as the Exclusion Log show “READY\_TO\_REPLACE”, the user has to get the device that will replace the failed node into “Learn Mode” by following the instruction of the device manufacturer.

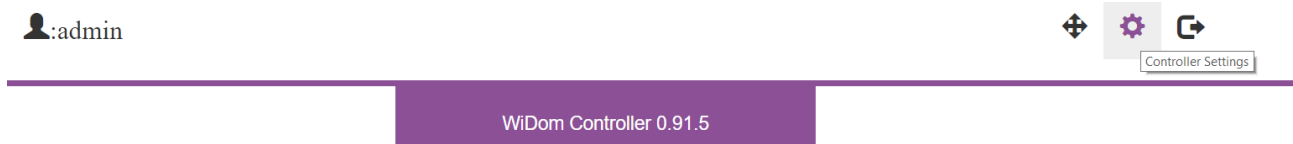
As soon as the Replace process has been terminated the pop-up windows will be closed and the device will be show in the dashboard instead of the failing node.

## Controller-Learn Mode

The WiDom controller can be put in learn mode in order to receive the network information from an existing controller.

Depending of the Initiating controller WiDom controller at the end of the process, it can become Inclusion/SIS/Secondary controller.

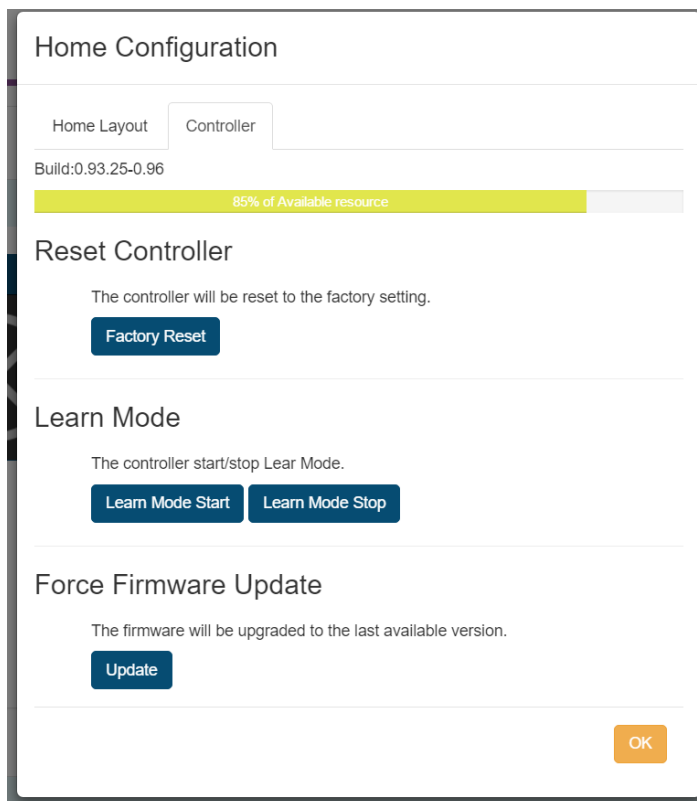
As soon as the existing controller has started an inclusion\add\copy\transfer process WiDom Controller has to be get in “Lear mode” by following this step:



Click on the controller Setting will show a pop-up menu when the user has to press “Learn Mode Start” button. The Learn Mode will last for 5 seconds but can be stop by click “Learn Button Stop”.

In order to start the process the controller that will send all the network information has to start an (Inclusion\add process, copy\transfer process).

The process can be a long process since each device need to be re-interview in order to have full access to their capabilities.



## Controller-Replication (copy)

Part of the inclusion process of a controller is the replication of the network information versus the controller included. In order to start the process WiDom Controller has to start a device inclusion (see “ Including (add) new device in the network” paragraph and the controller to be included has to get in “Learn Mode” by following the manufacturer instruction.



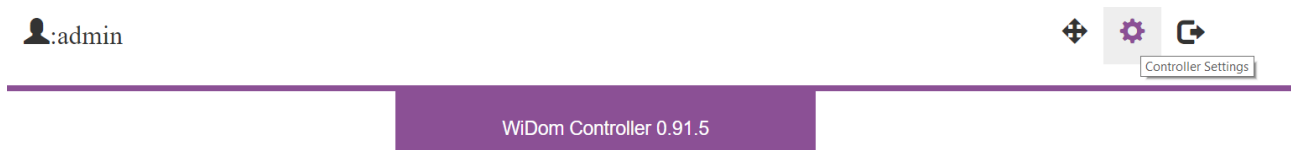
## Include the controller in an existing Network

If the controller as not jet included node into its network then can be included into an existing network. The inclusion process has to be started from the including controller by following the instruction provided by the manufacturer, then the WiDom controller has to be get in Learn Mode by following the instruction in this manual at paragraph "Controller-Learn Mode".

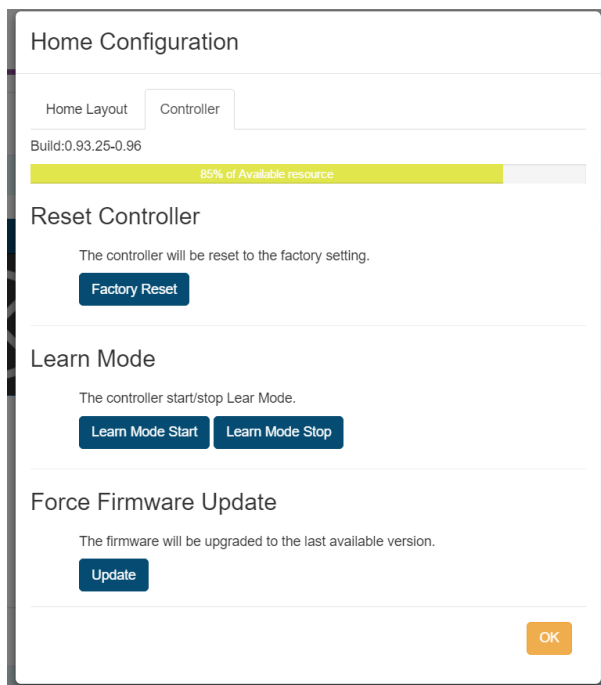
## Factory Default Reset

If this controller is the primary controller for your network, resetting it will result in the nodes in your network being orphaned and it will be necessary after the reset to exclude and re-include all of the nodes in the network. If this controller is being used as a secondary controller in the network, use this procedure to reset this controller only in the event that the network primary controller is missing or otherwise inoperable."

The controller can be reset to the factory configuration by pressing the factory reset button to the GUI by following these steps:



Click on the controller Setting will show a pop-up menu when the user has to press "Factory Reset" button. The system will show an additional pop-up menu for confirmation and if the confirmation is positive will procede with the factory reset.



## Association Command Class

The devise support a single Association Group for Lifeline association using for communicate to its associated node if a device reset local occurs. The group supports the association of up to 5 devices:

Group ID	Group Name	Profile	Commands received	Description
1	LifeLine Group	General: LifeLine	Device Reset Locally Notification	Devices to receive notifications on: device local reset