VeraEdge

Z-Wave Overview

Inclusion and Exclusion

Your VeraEdge Controller can work with all Z-Wave devices, such as sensors, alarms, door locks, thermostats, etc. Over a thousand Z-Wave devices are available from many brands. (Z-Wave is a wireless communications system; check the package or specs to see if a device uses Z-Wave.) Before VeraEdge can control a device, it must be included into the Vera system.

Vera **Custom Device Wizards** are available for select devices that pass stringent Vera Labs testing for compatibility and quality. The Custom Device Wizards make Inclusion/Exclusion easiest, with specific details for each device.

A list of these devices is available and updated at *http://getvera.com/compatibility/*

For all other Z-Wave devices, a **Generic Device Wizard** is used for Inclusion/Exclusion. A Generic Device Wizard is available for each device category (thermostats, sensors, alarms, etc.)

To get started, after setting up your VeraEdge Controller, use the Vera UI to select **Devices** and then **Add Device** *(Figures 1-1 & 1-2)*.

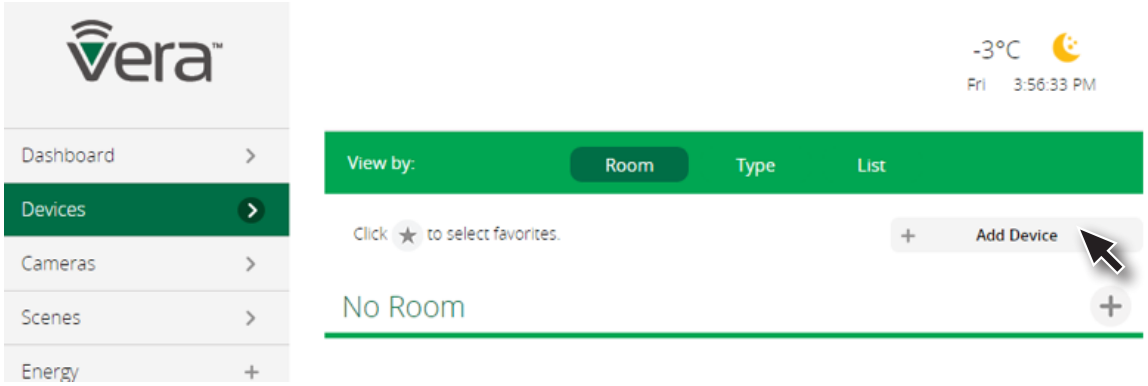


Figure 1-1: *Add Device*

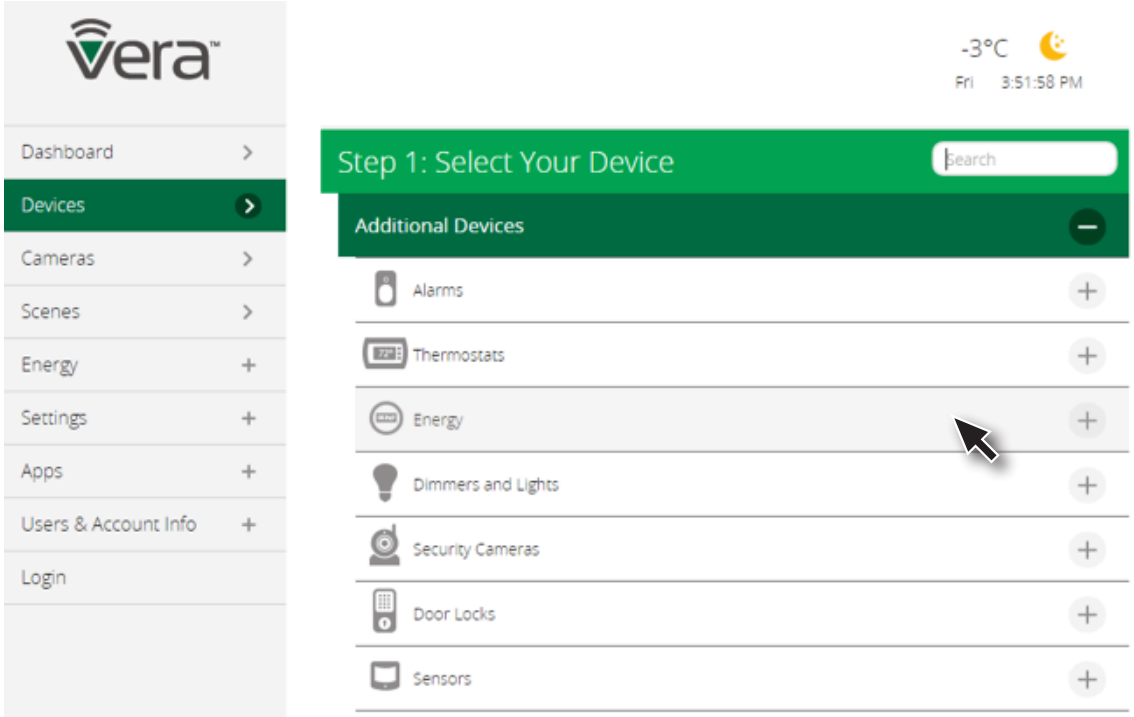
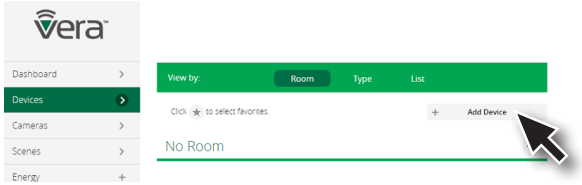


Figure 1-2: *Device Paring menu*

Inclusion/Exclusion for Devices with Vera Custom

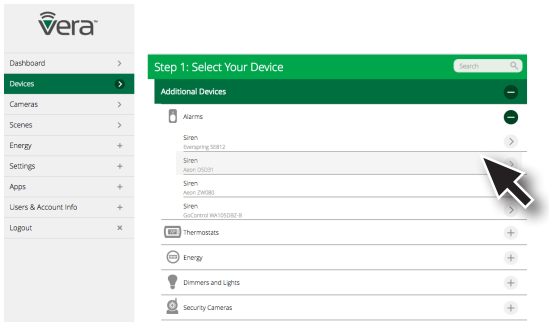
Step 1

Select **Devices** and click on the **Add Device** option.



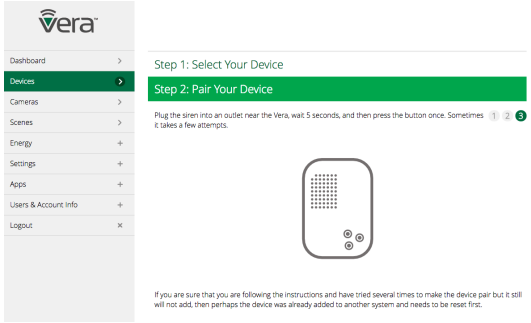
Step 2

Click on the **"+"** sign for the device's category. A list of Vera **Custom Device Wizards** is displayed. Select a device to include.



Step 3

Follow the steps in the Device Wizard to add the device.



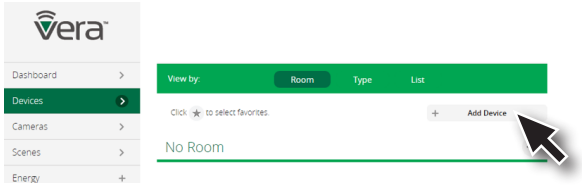
After adding a new device, the VeraEdge Controller will ask you to name it and choose the room it is (or will be) located in.

Note: If the device was previously included with a different Z-Wave system, you'll need to it exclude it before adding with your VeraEdge. (You may also need to do this if you have problems Inclusion/Exclusion the first time.) Press the Retry button to start the exclusion process. Once the device is excluded, add it by following the inclusion steps.

Inclusion/Exclusion for Devices using a Generic Device Wizard

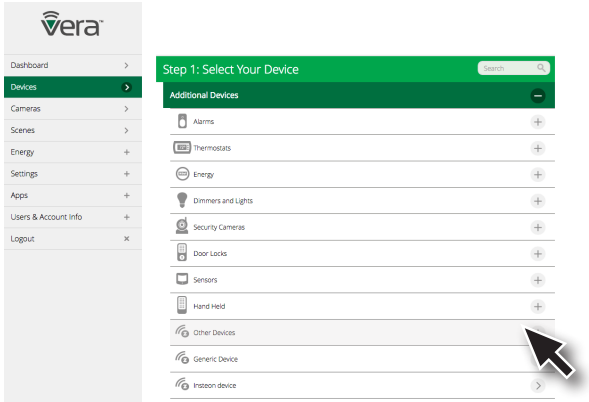
Step 1

Select **Devices** and click on the **Add Device** option.



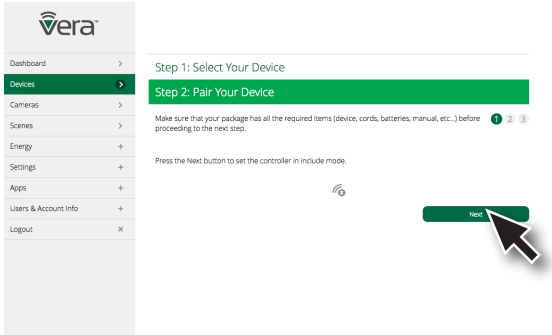
Step 2

Click on the **"+"** sign for the device's category. A list of Vera Custom Device Wizards is displayed. If your specific device is not shown, select the **"Generic Device"** option.



Step 3

Follow the steps in the Device Wizard to add the device.



After adding a new device, the VeraEdge Controller will ask you to name it and choose the room it is (or will be) located in.

Note: If the device was previously included with a different Z-Wave system, you'll need to it exclude it before adding with your VeraEdge. (You may also need to do this if you have problems Inclusion/Exclusion the first time.) Press the Retry button to start the exclusion process. Once the device is excluded, add it by following the inclusion steps.

VeraEdge Buttons

A ***Sync Button***

To carry out a manual setup of devices, tap the Sync button on the controller. To exit the inclusion mode on the controller, tap the Sync button again. To exclude a Z-Wave product from the network, hold the Sync button down for 3 seconds. ***(Figure 2-1)***

B ***WPS Button***

Easy push button inclusion for Wi-Fi devices. ***(Figure 2-1)***

C ***Reset Button***

The Vera Edge controllers can be reset to factory defaults by holding the reset button for 20 seconds and releasing it. This will reset the Z-Wave network and change it's House ID, and clear your account and user configuration data from your controller.

The account will only be removed from the controller, but it will continue to be in the database.

Holding the reset button for 10 seconds will reset the network configuration settings to defaults, while keeping your other settings intact. ***(Figure 2-1)***

Note: *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 proce-dure to reset this controller only in the event that the network primary control-ler is missing or otherwise inoperable .*

Figure 2-1: *VeraEdge Left Side*

Advanced Z-Wave Functions

These Advanced Z-Wave Functions are usually needed only for specific (and rare) technical situations, or for professional installers creating very large systems, or for developers creating new hardware or software.

You may need to access these advanced functions if there's a problem with your system and you need to reset the Z-Wave network, if you want to upgrade to a different model of Vera Controller, to enable another controller to operate your VeraEdge, or for other technical situations as described below.

To access Advanced Z-Wave Functions select **Settings** and then **Z-Wave Settings**. Select the **Advanced** tab *(Figure 3-1)*.

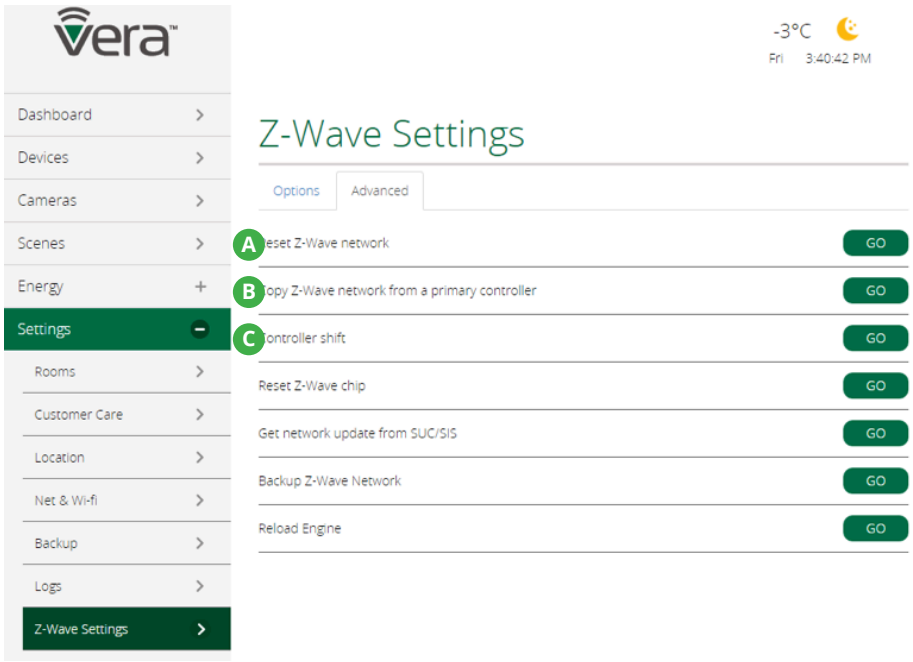


Figure 3-1: *Advanced Tab*

From there you'll be able to access these Advanced Z-Wave options:

A ***Reset Z-Wave network***
Will clear all the user configuration data and assign a new Z-Wave HouseID.

B ***Copy Z-Wave network from a primary controller***
Will allow the unit to copy all Z-Wave related information from a Primary Z-Wave Controller and is used with Replication.

C ***Controller shift***
Tells Vera to transfer the role of primary controller to another Z-Wave controller. The other Z-Wave controller will become the 'Master controller', and Vera will be a secondary controller. This means the other Z-Wave controller will then be responsible for healing the networking and being the SIS/SUC (a technical Z-Wave term). Normally, by default, Vera is the master controller and is SIS/SUC.

Advanced Z-Wave Functions

D ***Reset the Z-Wave chip***
This option will re-initialize the Z-Wave chip.

E ***Get network update from SUC/SIS***
This option will update the slave controller network from the primary controller to which it's currently added. This option is used when Vera is a secondary controller.

F ***Backup Z-Wave Network***
VeraEdge has the ability to back up its Z-Wave network and its configuration settings to be restored on another gateway. This procedure is explained on the page below:

http://support.getvera.com/customer/portal/articles/2345058

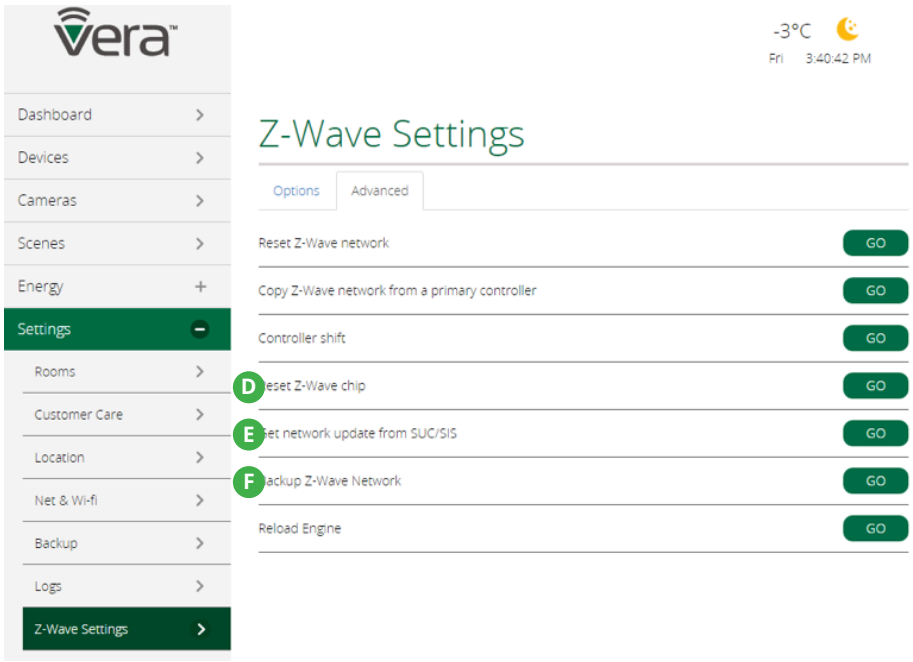


Figure 3-1: *Advanced Tab*

Learn Mode

Include your controller into an existing Z-Wave network. Steps for VeraEdge controller using the web interface.

Click on Settings > Z-Wave Settings > Advanced > Select 'Copy Z-Wave network from a primary controller'

This will put the controller into learn mode and shift it to a secondary role. The controller can now receive data from a primary device in the network and associate with other devices in the Z-Wave network via the primary controller.

Replication

Include another controller and transfer the Z-Wave network data to it. Steps for VeraEdge controller using the web interface.

Click on Settings > Z-Wave Settings > Advanced > Select 'Controller Shift'

All the Z-Wave devices will be replicated into the new controller. This is used to transfer data from one controller to another. With replication the new controller becomes primary.

Advanced Z-Wave Functions

Basic Command Class Handling

The basic command class is controlled by Vera and it is not mapped to any other Z-Wave Command Class.

More details can be found on our wiki page.

http://wiki.mios.com/index.php/ZWave_Basic_Command_Class_Mapping

Support for Association Command Class

VeraEdge has support for the Lifeline association command class.

group id: 1 - lifeline
number of nodes in group: 5

More details can be found on our wiki page.

http://wiki.mios.com/index.php/Association

Support for Multiple Manufacturers in The Same Network

The controller can be included and operated in any Z-Wave network with other certified Z-Wave devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of the vendor to increase the reliability of the network.

Support for sending Z-Wave Commands

Z-Wave commands can be sent using the Vera API which will allow you to send HTTP requests with the specified command class to the specified node.

More details can be found on our wiki page.

http://wiki.mios.com/index.php/Luup_UPnP_Variables_and_Actions#ZWaveNetwork1

To send a Z-Wave command you'll need to add the node id of the controlled Z-Wave device and the command class used.

For example to control node 3 and send a BASIC_SET with a value of 00, the command will be :

http://**GATEWAY_IP**/port_3480/data_request?id=action&DeviceNum=1&serviceId=urn:micasaverde-com:serviceId:ZWaveNetwork1&action=SendData&**Node**=3&**Data**=0x20-0x01-0x00

GATEWAY_IP is the actual local IP address of the unit.
Node is the Z-Wave node the command is sent to.
Data will contain the Z-Wave Command Class sent to the device.

VeraEdge

Home Controller

Congratulations!

Welcome to Vera Smarter Home Control.
The VeraEdge Controller provides entry to
a world of convenience & peace of mind.

In this package you'll find:

VeraEdge Controller

AC Power Adapter

Ethernet Cable

Detail Views

Back

Side

For Additional Help, Visit

support.getvera.com
+1 (866)-966-2272
support@getvera.com

QSG-VERAEDGEV1

Installation

1. ***Firmly connect the provided Ethernet Cable*** from your VeraEdge to your ***Wi-Fi router*** (or other Internet source).
2. ***Firmly connect the AC Power Adapter*** to VeraEdge and plug in to an AC outlet. VeraEdge has no on/off switch, it will power up as soon as you plug in the AC adapter.

3. ***To setup your controller,*** go to **home.getvera.com**

If you are a new Vera user, click **"I have a new gateway to setup!"** at the bottom of the screen. Then select your Controller from the pull-down menu.

If you already have an account, please login. Then click **"Add another controller"** on the next screen. Select your Controller from the pull-down menu.

Follow the Setup Instructions.