DCH-G022
mydlink™ Connected Home Hub

User's Manual

Version 1.0

Jun. 25th, 2016

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1. PRODUCT DESCRIPTION

The DCH-G022 is a Connected Home Z-Wave Gateway used to control a variety of Z-wave home sensors for the application of home automation.
It is able to talk to variety of Z-Wave sensors and communicate with other D-Link connected Home devices.
DCH-G022 is a Security Enabled Z-Wave Plus product.

2. APPEARANCE

Front Panel

- LED: Status indicator

Rear Panel

- USB port (Type A): reserved for future support.
- LAN port x2
- Wireless button: Device inclusion/ exclusion and Wi-Fi connecting

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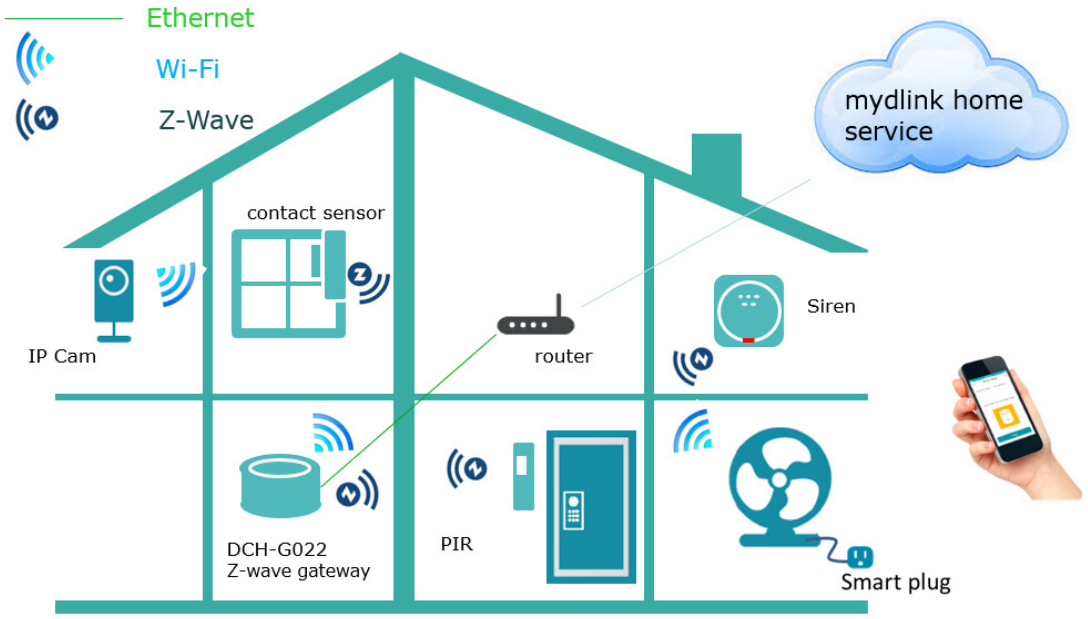
  - Power jack: 5V/2A

Bottom Panel

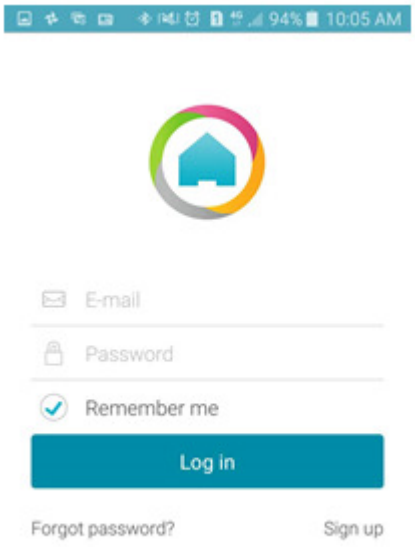
- Reset button
- PIN Code: Code for App binding and web configuration UI password

3. APPLICATIONS

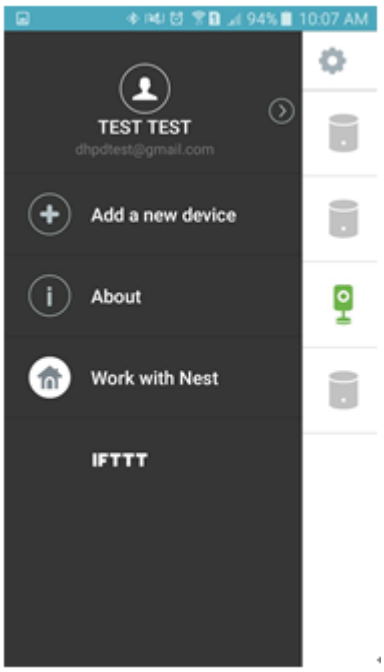


4. INSTALLATIONS & BASIC CONFIGURATIONS

Step 1 Make sure your mobile device connected to the same network as DCH-G022
Step 2 Follow the Quick Install Card to scan the QR code to download the App.
Step 3 Install App and run it.
Step 4 Register an account for mydlink home service and login the App.

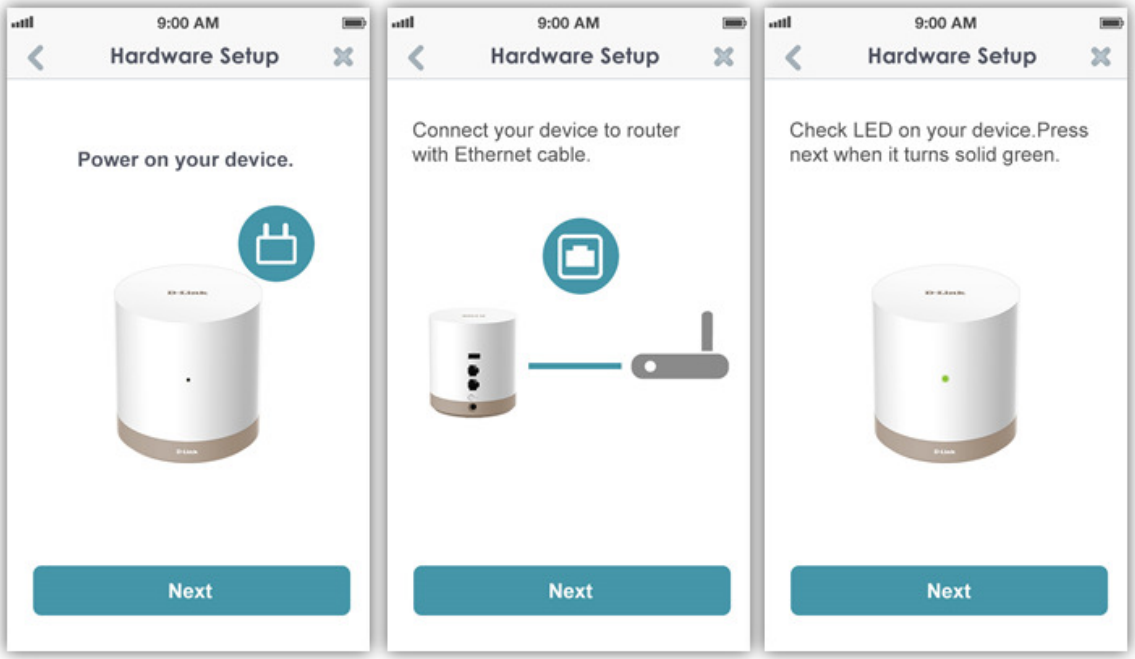


Step 5 Add a new device and select Gateway DCH-G022.
A. Select Add new device to add a DCH-G022.

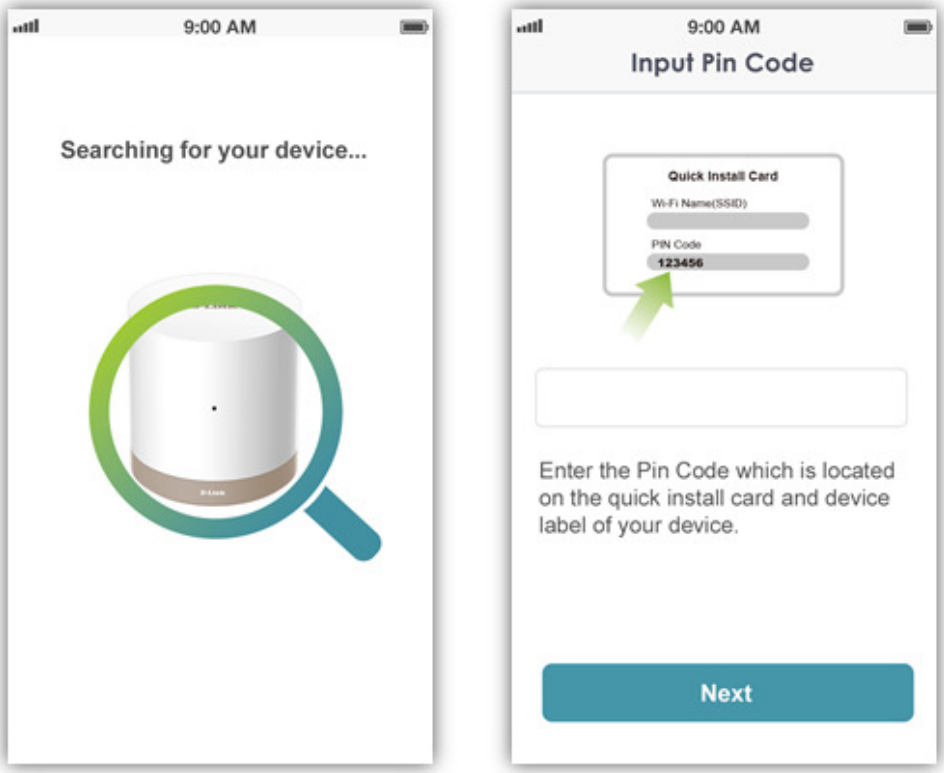


B. Scan device QR code or skip the QR code to manual select the device.

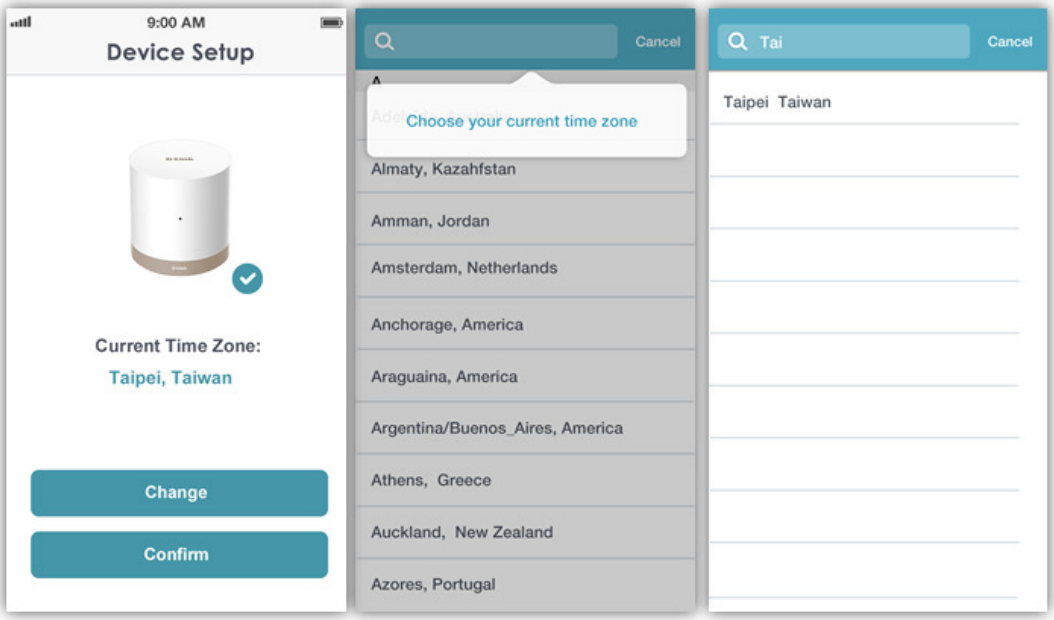
Step 6 Follow the instructions to setup the DCH-G022



Step 7 Find the DCH-G022, select it or need to enter the PIN Code of your DCH-G022 if choose manual setup.

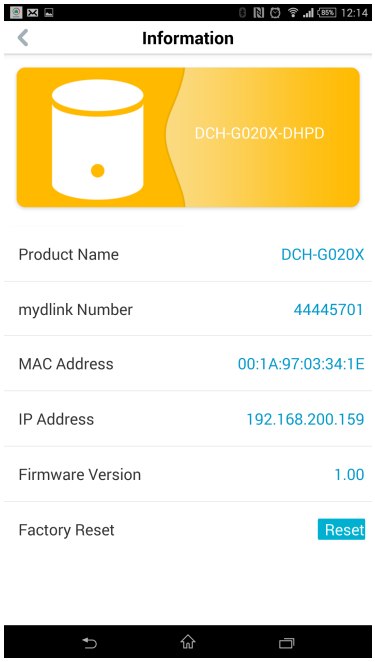


Step 8 Set time zone of your DCH-G022.



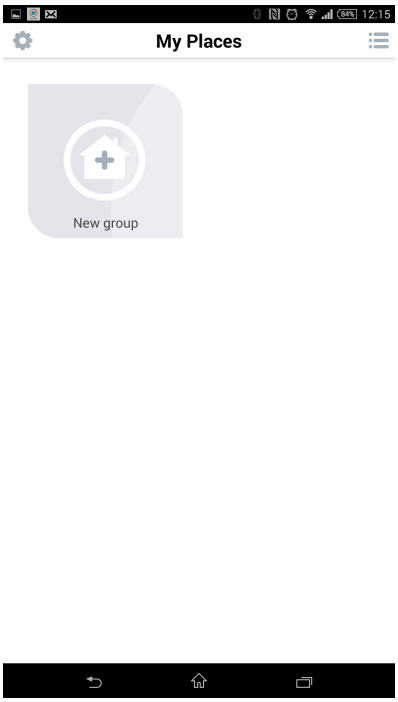
Step 9 Give a name and a photo for your DCH-G022.

- Click the device to see more information of the device.



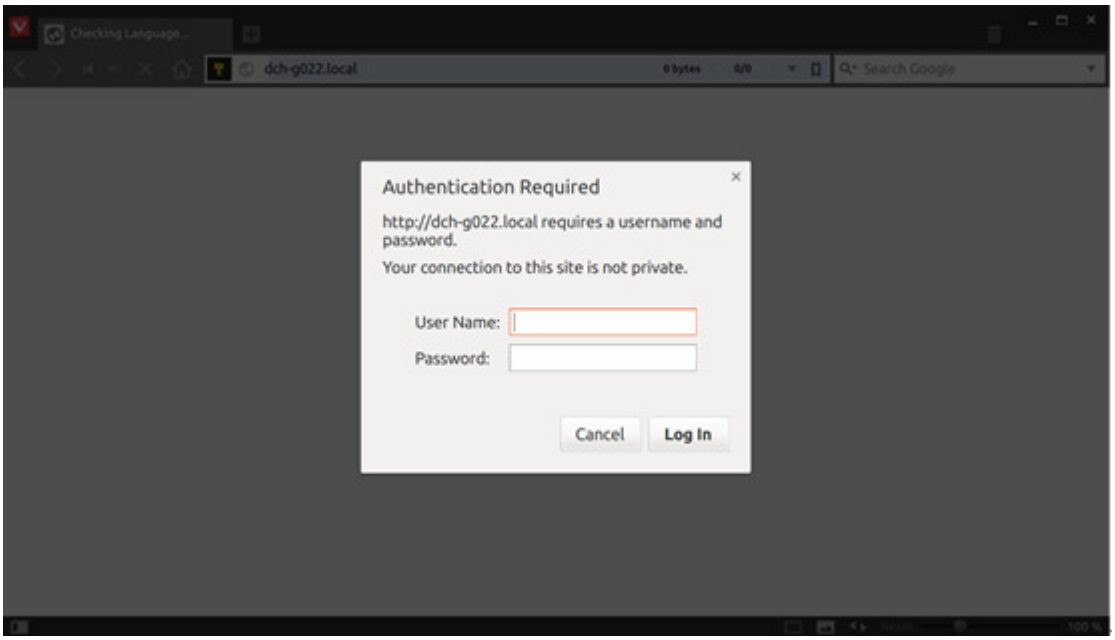
- Make a Policy for Devices

- Make a Group for Devices



5. ADVANCED CONFIGURATIONS

Before enter the advance configuration, you need to open an Internet browser on the PC and type http://dch-g022's IP address/ to login the web page



Input the followings:

- User name: admin
- Password: device PIN code (6 digits)

Note: you can find the PIN code on the device label.

5.1 Firmware Update page

After successful log-in, click the Firmware Upgrade tab on the left, then you will enter the firmware update page.

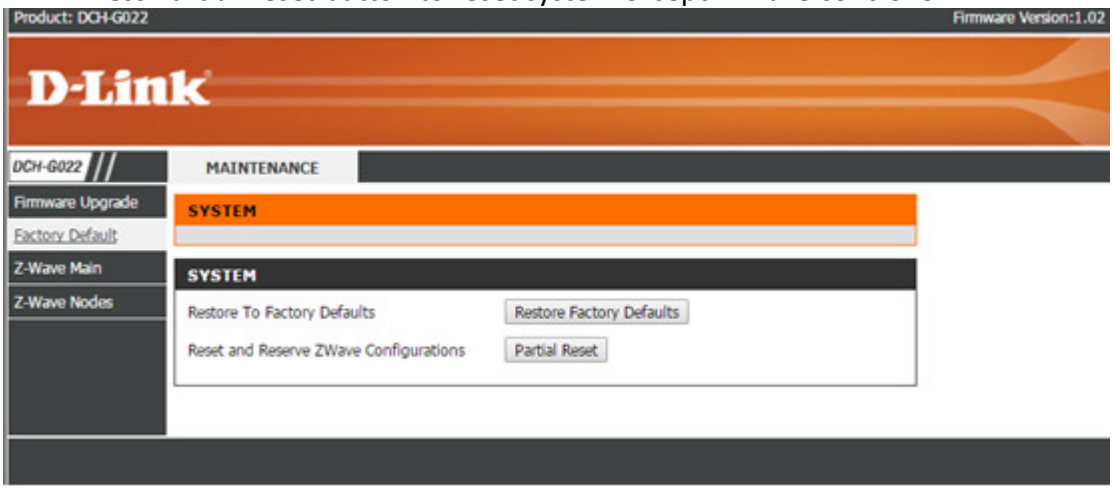
FW upgrade: Select the FW file first, and then press the "Upload" button.

5.2 Factory Default page

After successful log-in, click the Factory Default tab on the left, then you will enter the factory default page.

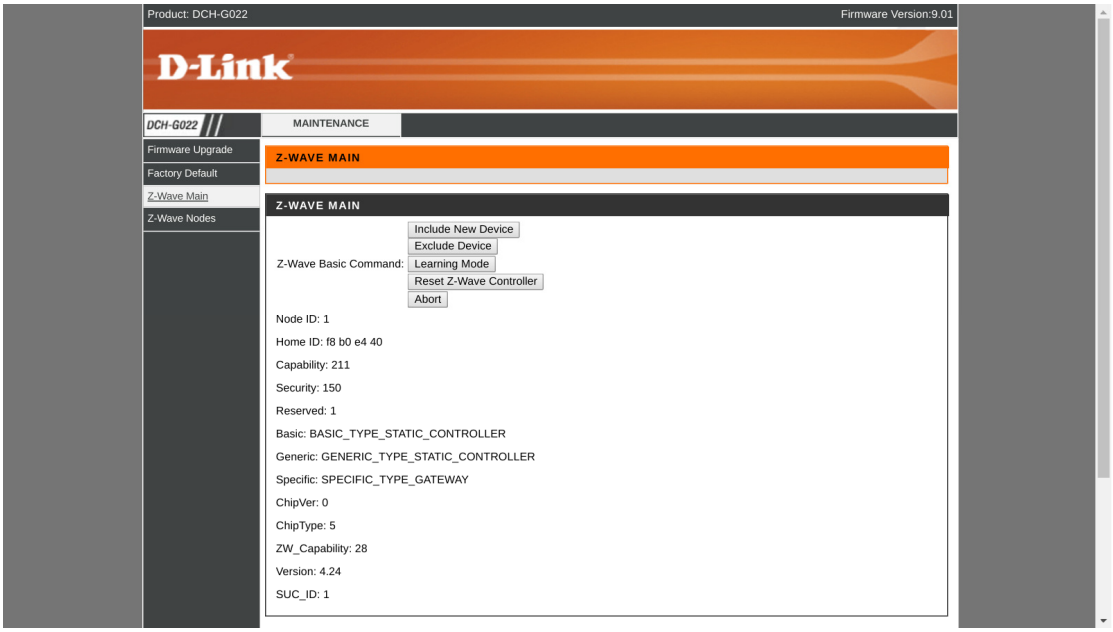
Press Restore Factory Default button to reset the device to factory default value

Press Partial Reset button to reset system except Z-Wave controller.



5.3 Z-Wave Main page

This page allows the user to do the advanced Z-Wave configuration of DCH-G022. After successful log-in, click the Z-Wave Main tab on the left, then you will enter the Z-Wave Main page.



5.3.1 Z-Wave Basic Commands:

- **To Include Device / Exclude Device**: Press the This process (also known as "inclusion" and "adding") is achieved by pressing/(hold for 5 seconds) “Wireless

button" on DCH-G022 to achieve include device. Or you can pushing the "Include NEW Device" feature on Web GUI to add device. To exclude a device, please press "Exclude Device" button on web GUI.

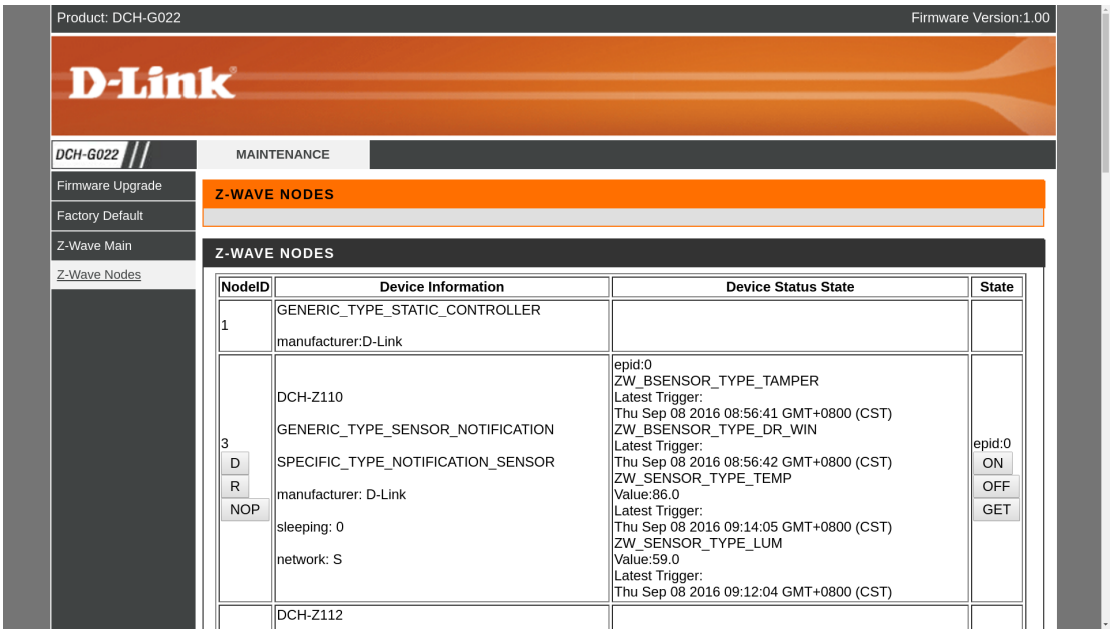
- **Learn Mode:** Starts learn mode for DCH-G022 if it is needed to include it as slave in another controller's network. When DCH-G022 is already included in a network, triggering "Learn Mode"again can Copy (do replication) latest network information from SUC.
- **Reset Z-Wave Controller:** Reset the Z-Wave controller only.
- This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

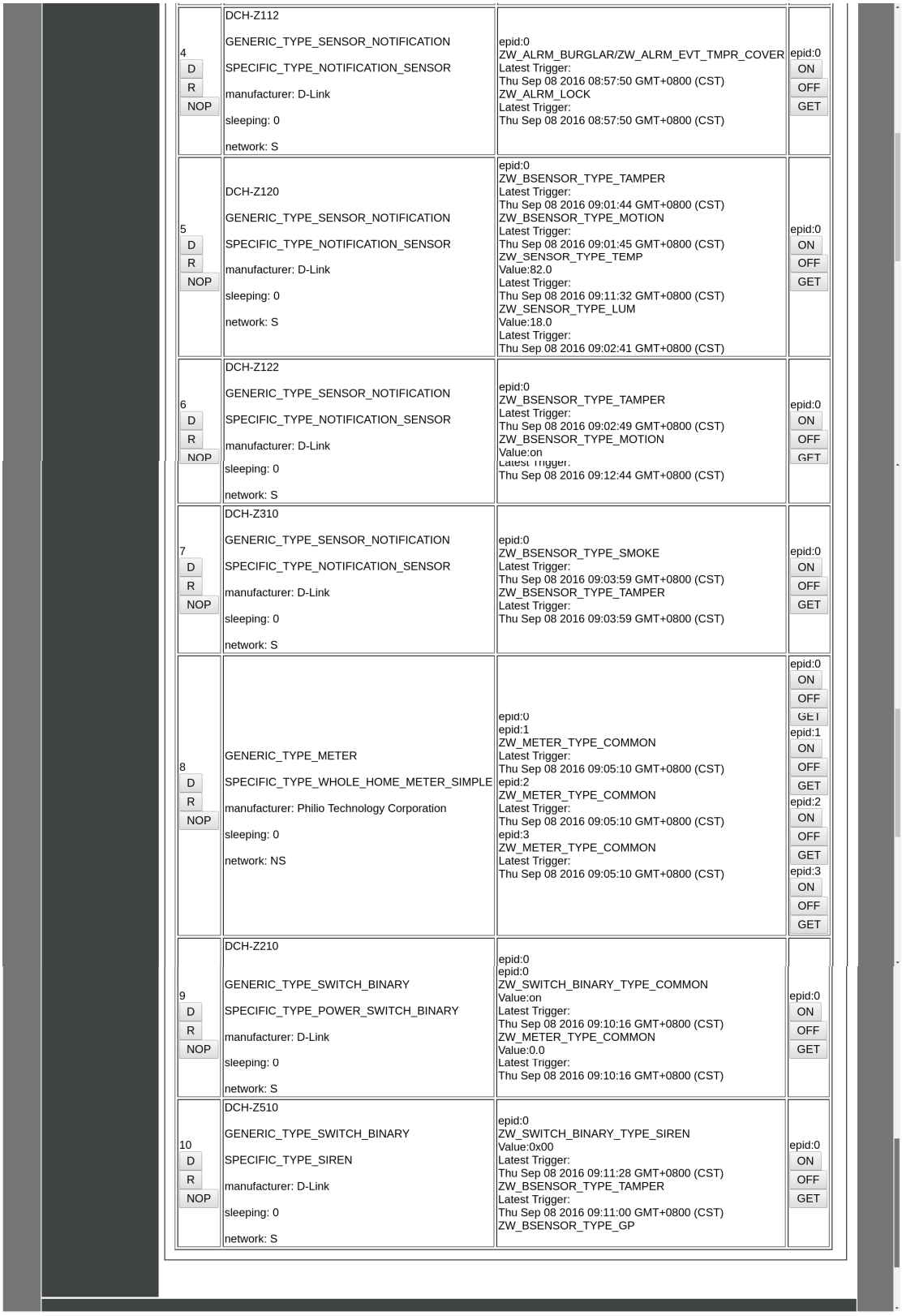
5.3.2 Status and Information:

- Node ID: Display the node ID of the DCH-G022
- Home ID: Display the current Home ID of the DCH-G022
- Node Information: Display the basic type, generic type and specific type of DCH-G022.
- ZW_Capability: the Z-Wave capabilities of DCH-G022
- SUC_ID: the ID of Static Update Server

5.4 **Z-Wave Nodes page**

This page allows the user to do the advanced Z-Wave configuration of other Z-Wave sensors. After successful log-in, click the Z-Wave Nodes tab on the left, then you will enter the Z-Wave Nodes page.





4 D R NOP	DCH-Z112 GENERIC_TYPE_SENSOR_NOTIFICATION SPECIFIC_TYPE_NOTIFICATION_SENSOR manufacturer: D-Link sleeping: 0 network: S	epid:0 ZW_ALRM_BURGLAR/ZW_ALRM_EVT_TMPR_COVER Latest Trigger: Thu Sep 08 2016 08:57:50 GMT+0800 (CST) ZW_ALRM_LOCK Latest Trigger: Thu Sep 08 2016 08:57:50 GMT+0800 (CST)	epid:0 ON OFF GET
5 D R NOP	DCH-Z120 GENERIC_TYPE_SENSOR_NOTIFICATION SPECIFIC_TYPE_NOTIFICATION_SENSOR manufacturer: D-Link sleeping: 0 network: S	epid:0 ZW_BSENSOR_TYPE_TAMPER Latest Trigger: Thu Sep 08 2016 09:01:44 GMT+0800 (CST) ZW_BSENSOR_TYPE_MOTION Latest Trigger: Thu Sep 08 2016 09:01:45 GMT+0800 (CST) ZW_SENSOR_TYPE_TEMP Value:82.0 Latest Trigger: Thu Sep 08 2016 09:11:32 GMT+0800 (CST) ZW_SENSOR_TYPE_LUM Value:18.0 Latest Trigger: Thu Sep 08 2016 09:02:41 GMT+0800 (CST)	epid:0 ON OFF GET
6 D R NOP	DCH-Z122 GENERIC_TYPE_SENSOR_NOTIFICATION SPECIFIC_TYPE_NOTIFICATION_SENSOR manufacturer: D-Link sleeping: 0 network: S	epid:0 ZW_BSENSOR_TYPE_TAMPER Latest Trigger: Thu Sep 08 2016 09:02:49 GMT+0800 (CST) ZW_BSENSOR_TYPE_MOTION Value:on Latest Trigger: Thu Sep 08 2016 09:12:44 GMT+0800 (CST)	epid:0 ON OFF GET
7 D R NOP	DCH-Z310 GENERIC_TYPE_SENSOR_NOTIFICATION SPECIFIC_TYPE_NOTIFICATION_SENSOR manufacturer: D-Link sleeping: 0 network: S	epid:0 ZW_BSENSOR_TYPE_SMOKE Latest Trigger: Thu Sep 08 2016 09:03:59 GMT+0800 (CST) ZW_BSENSOR_TYPE_TAMPER Latest Trigger: Thu Sep 08 2016 09:03:59 GMT+0800 (CST)	epid:0 ON OFF GET
8 D R NOP	GENERIC_TYPE_METER SPECIFIC_TYPE_WHOLE_HOME_METER_SIMPLE manufacturer: Philio Technology Corporation sleeping: 0 network: NS	epid:0 epid:1 ZW_METER_TYPE_COMMON Latest Trigger: Thu Sep 08 2016 09:05:10 GMT+0800 (CST) epid:2 ZW_METER_TYPE_COMMON Latest Trigger: Thu Sep 08 2016 09:05:10 GMT+0800 (CST) epid:3 ZW_METER_TYPE_COMMON Latest Trigger: Thu Sep 08 2016 09:05:10 GMT+0800 (CST)	epid:0 ON OFF GET epid:1 ON OFF GET epid:2 ON OFF GET epid:3 ON OFF GET
9 D R NOP	DCH-Z210 GENERIC_TYPE_SWITCH_BINARY SPECIFIC_TYPE_POWER_SWITCH_BINARY manufacturer: D-Link sleeping: 0 network: S	epid:0 epid:0 ZW_SWITCH_BINARY_TYPE_COMMON Value:on Latest Trigger: Thu Sep 08 2016 09:10:16 GMT+0800 (CST) ZW_METER_TYPE_COMMON Value:0.0 Latest Trigger: Thu Sep 08 2016 09:10:16 GMT+0800 (CST)	epid:0 ON OFF GET
10 D R NOP	DCH-Z510 GENERIC_TYPE_SWITCH_BINARY SPECIFIC_TYPE_SIREN manufacturer: D-Link sleeping: 0 network: S	epid:0 ZW_SWITCH_BINARY_TYPE_SIREN Value:0x00 Latest Trigger: Thu Sep 08 2016 09:11:28 GMT+0800 (CST) ZW_BSENSOR_TYPE_TAMPER Latest Trigger: Thu Sep 08 2016 09:11:00 GMT+0800 (CST) ZW_BSENSOR_TYPE_GP	epid:0 ON OFF GET

(Please refresh the GUI to show up the newest status)

- NOP: To send NOP to test if sensor node can response (with ack) correctly. If device can response immediately, the "sleeping" state will be 0. Otherwise it will be 1 which means the device may be sleeping or out of work.
- D: After send NOP to check that node is sleeping or out of work (value is 1), user can remove the failed node. (Before removing failed node, please manually wake up the node to check if it really failed)
- R: After send NOP to check that node is sleeping or out of work (value is 1), user can replace the failed node. (Before replacing failed node, please manually wake up the node to check if it really failed)
- ON: Send the BASIC SET ON command to switch end point (e.g.: ep0) of the node ON.
- OFF: Send the BASIC SET OFF command to switch end point (e.g.: ep0) the node OFF.
- GET: Send the BASIC GET command to the end point (e.g.: ep0) of selected node.
- "Network: S" : (**S**ecurity) Node is included by DCH-G022 with security
- "Network: NS": (**N**on-**S**ecurity) Node is included by DCH-G022 without security

6. ADDITIONAL NOTES

- The Z-Wave Grouping Identifier of DCH-G022 is 1 and used for the Lifeline association.
- The maximum number of devices that can be added to the group is 1.
- Being a slave controller, DCH-G022 will ignore / do nothing when getting basic GET/SET command
- 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.