



C24 Installation and Activation

March 5, 2012

Agenda

- Brief overview of installation process for:
 - DSC Power Series 1864 + Gateway
- Live activation demo after this overview
- This overview assumes previous Life Safety installer training for the DSC PowerSeries security panel



Before You Begin

- Find the customer's Home Router (REQUIRED)
- Gather all products, tools and info near there
- Connect an Ethernet cable to available port on Home Router (ONE open port is required)



Ethernet to:



Home Router



Broadband
Modem



Installation Steps: SAAIT

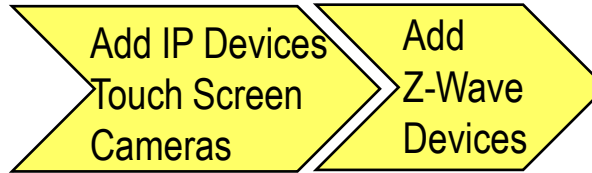
1. Secure



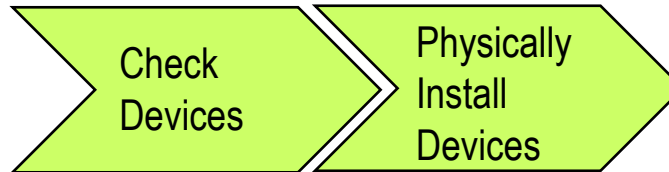
2. Activate



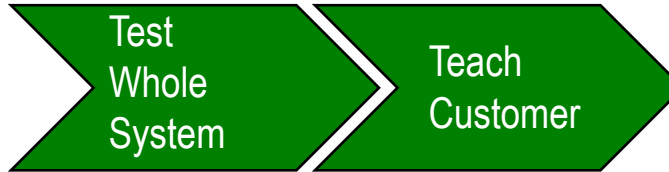
3. Add



4. Install



5. Test



Secure

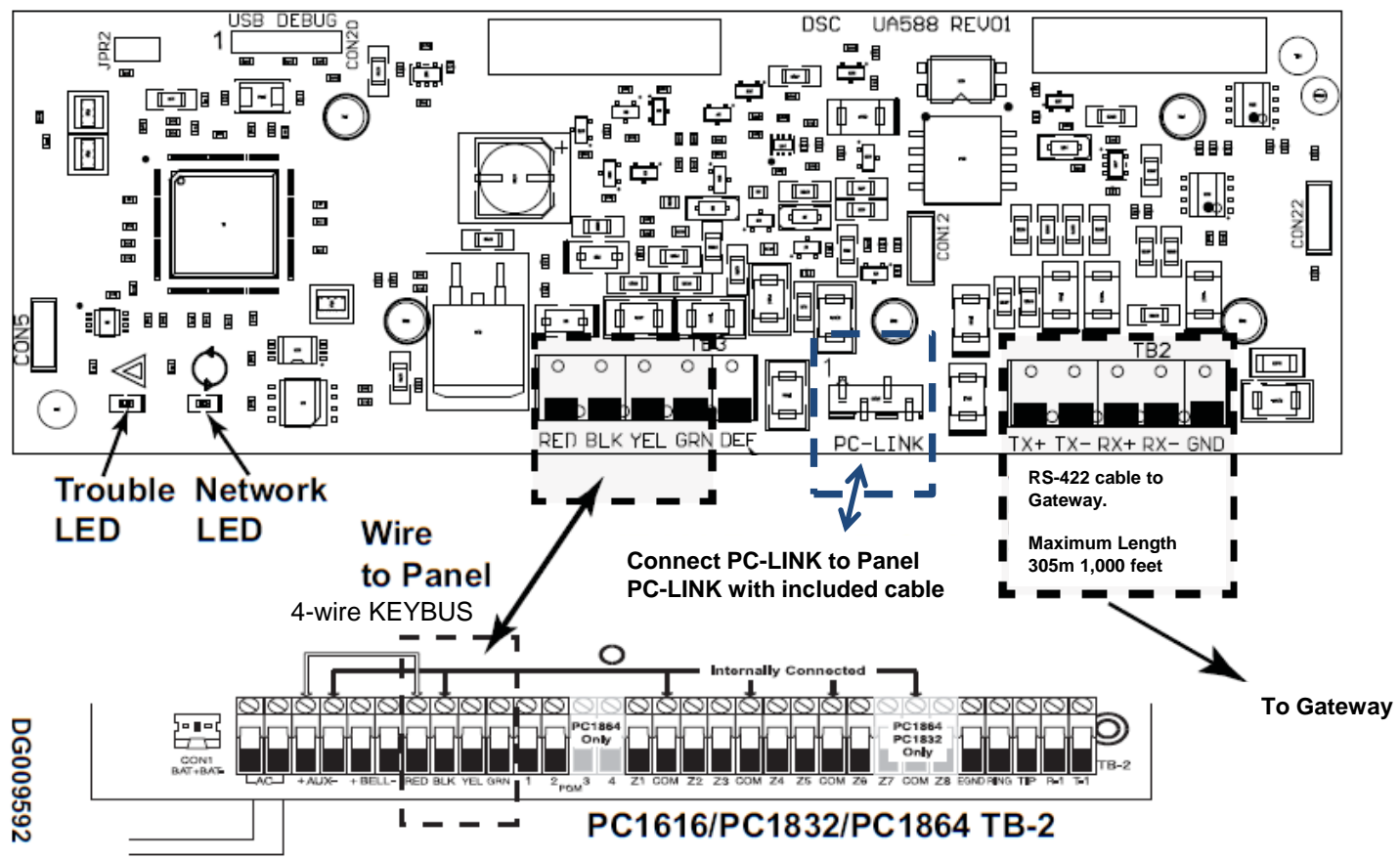
1. Secure



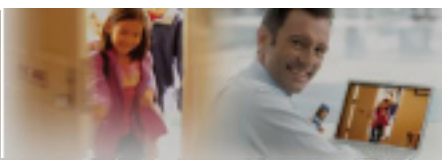
-
- A. Physically prepare the PowerSeries for LifeSafety functionality (installation, battery, power, programming)
 - B. Connect Gateway to Network and Panel
 - C. Power Up and ensure proper connections/operations



Panel Wiring

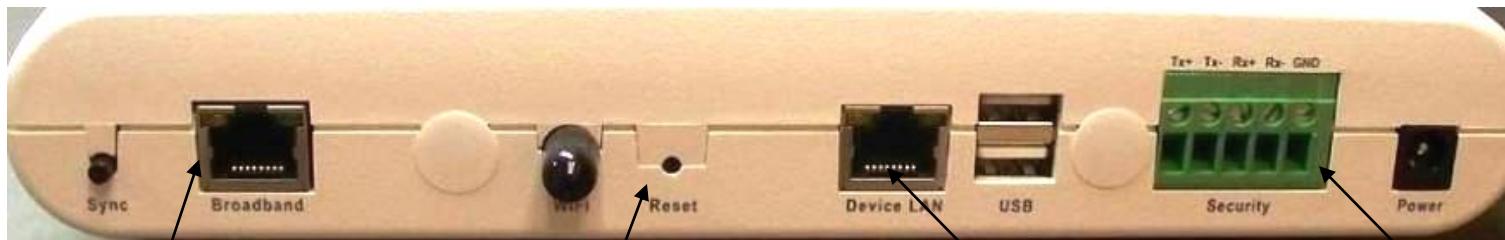


Note: IT-230 shown. Terminal strip is the same on all RS-422 modules



Gateway Hardware

- LEDs
- Ports/Connector



The Broadband port connects to an open port on Customer's Router.

Reset Button is used to factory default the Gateway.

LAN Port for adding Wi-Fi devices (Camera, Touchscreen)

RS-422 Connection from the Panel



Gateway to Panel

- Security Connection- RS 422

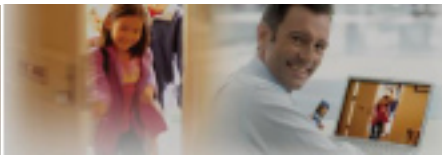


Panel	Gateway
Tx-	Rx-
Tx+	Rx+
Rx-	Tx-
Rx+	Tx+



Required Programming

- **Section [382] turn option 5 ON**
 - This option enables communication between the panel and the RS-422 module
 - All programming has been defaulted and no additional programming is needed
- **Broadcast zone labels when using RFK5500 or PK5500 keypad**
 - After RS-422 is connected, send zone labels to module
 - Access keypad programming [*][8] [installer's code] [*] [998] [*] to perform broadcast



Panel Verification

- **Test Communication between Panel to RS-422 module**
 - Enter Section [851] and sub-section [672]
 - Multiple beeps heard if good communication
 - Long tone if bad communication
- **Diagnostics**
 - Ensure option 5 in section [382] is enabled
 - Check orientation of 4-pin PC-LINK connector
 - Check connection of 4-wire KEYBUS
 - Recalculate power consumption



Optional Programming

To access custom programming access section [851]

- [671] Lifestyle Event Toggle (Should be left at default)
 - Disable buffering of event groups
 - Buffer is used when RS-422 communication is lost
- [672]-[679] Lifestyle Zone Toggle Options
 - Disable status reporting of zones (Open/Close Zones)
- [681] Notification Event Toggle
 - Disable system event reporting (Troubles, Faults, etc.)
- [682]-[689] Notification Zone Toggle Options
 - Disable lifestyle reporting codes (Alarm reporting codes)



Activate

2. Activate



-
- A. Activation process done through and upgrades the Gateway
 - B. Activating the Gateway using the Wizard
 - Create a new Site Owner account or use one that has been setup using the Wizard



Activation Sign In



Activate Service

Welcome

Username:

Password:

Sign In



[Sign Out](#)

Activate Service

Welcome

Click **Continue** to install a new system.

Continue

powered by  iControl



MAXIM SECURITY
ALARM SERVICE INC.

Site Creation

Select Site Type



[Sign Out](#)

Activate Service

Activate a New System

What are you installing?

Hardware:

- Select Type -
- DSC PowerSeries PC1864 with External Gateway
- Notification (Sur_Gard)
- Cellular

Continue

powered by iControl

Enter Activation Key



[Sign Out](#)

Activate Service

Enter Activation Key

Find the Activation Key label on the bottom or inside the unit.

Activation Key: - - - -

Example: 6035-0412-FFB9-53B6-8210

Go Back

Continue

powered by iControl



Gateway Registration



[Sign Out](#)

Activate Service

Physical Setup

[Restart Activation](#)

1. When wiring the Gateway to the Security Panel, always ensure that both units are powered off.
2. Using an Ethernet cable, connect the Gateway's Broadband port to a port on the customer's router.
3. Plug the Gateway into AC power.
4. Wait until the Power LED is solid green (may take up to 5 minutes).

Continue

powered by  iControl

Note: The Restart Activation link will delete the site at the server



[Sign Out](#)

Activate Service

Waiting for Gateway

[Restart Activation](#)

Waiting for Gateway to come online.

This may take as long as 6 minutes...



Panel Registration

Select Service Options



[Sign Out](#)

Activate Service

Select Service Options

[Restart Activation](#)

Make selections for the service options below. Select None for any that do not apply.

Base Service Package:

Upgrade Group:

Waiting for the Security Panel to come online



[Sign Out](#)

Activate Service

Waiting for Security Panel

[Restart Activation](#)

Waiting for the Security Panel to come online.

This may take a minute...



Owner Registration



[Sign Out](#)

Create New User or Select Existing

[Sign Out](#)

Activate Service

[Restart Activation](#)

New user?

or

Already a user?

Create a user account to provide web and mobile access to your system.

[Create New Account](#)

Enter the Username for the site owner.

Username:

[Continue](#)

Site Information

[Restart Activation](#)

Enter the following additional information required to complete this installation.

* Site Name:

(Example: Smith Home)

* Time Zone: (GMT-08:00) Pacific (US & Canada) ▼

* Postal Code:

* Country: United States ▼

* Security Panel Access Code:

(Note: This must be a valid code that is used to arm and disarm the security panel.)

* Re-Type Access Code:

* Central Station ID:

* External Account ID:

Note: Setting the time zone may cause the system to restart when you click Continue.

[Continue](#)



Registration Complete



[Sign Out](#)

Activate Service

Service Activated

Service for this site has been successfully activated. Click the button below to sign in to the web portal as an Installer user.

Once signed into the web portal, you can continue the installation. Refer to the Installation Guide for instructions.

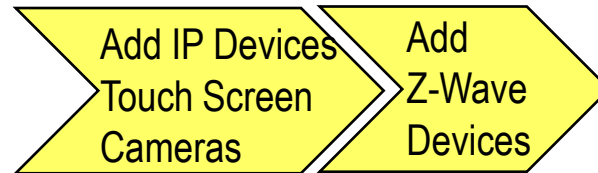
[Go to Portal](#)

The screenshot shows the C24 manager Sign In interface. It includes the C24 manager logo in the top left corner. The main heading is 'Sign In'. Below this, there are three input fields: 'Username:', 'Installer Username:', and 'Installer Password:'. Each field has a corresponding text input box. Below the input fields is a blue 'Sign In' button. Underneath the button is a link that says 'Switch to Customer Sign In Screen'. At the bottom of the form area, there is a small disclaimer: 'Unauthorized use of this site is prohibited and may be subject to civil and criminal prosecution.'



Add

3. Add



-
- A. Begin using the Web Portal
 - B. Support to add all the Zone information using the Manage Zone wizard
 - C. Add Wi-Fi LifeStyle Devices using the Portal
 - Touch Screen
 - Video Cameras
 - D. Add Z-Wave LifeStyle Devices using the Portal
 - Thermostats, Lighting modules



Managing Devices

Manage Devices Assistant

[? Help](#)

- Manage Security Zones**
Click here to manage security panel devices.
- Touch Screens**
Click here to add touch screens. 0 touch screens installed. 4 more can be added.
- Cameras**
Click here to add wired and wireless cameras. 0 cameras installed. 10 more can be added.
- Wi-Fi Extenders**
Click here to add Wi-Fi extenders.
- Lights, Thermostats & more**
Click here to add Z-Wave™ devices.

[Cancel](#)



Adding a Camera

1. Connect an Ethernet cable from the LAN/Device port to the back of camera via the Y-cable
2. Power up the camera (12VDC 1A)
3. Wait for Power and Network LEDs to turn solid green
4. Follow the Manage Device Wizard



Adding a Camera

Network LED

- On **Green** – LAN/Wireless connection established
- Off – No active connection on the LAN port or not associated to a gateway

Power LED

- On **Green** – Power On



Network

Power



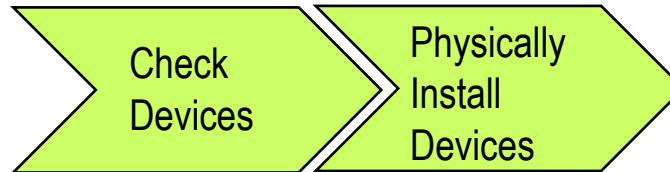
Adding Z-Wave Devices

1. Power up the device within 15 ft of the Gateway
2. Follow the Manage Device Wizard
3. Note different devices may be 'triggered' differently. Be sure to refer to the device manual for 'triggering' the device enrollment.



Install

4. Install



- A. Confirm proper device operation via the Web Portal
- B. Install LifeStyle devices in their proper location, paying attention to range limits
 - Wi-Fi Devices < 50 feet from the Gateway
 - Z-Wave Devices < 60 feet from nearest other Z-Wave device
 - Be sure to Refresh Z-wave network through 'Diagnostics'



Test

5. Test



- A. Check Web portal for sensor activities
- B. Run Diagnostics
- C. Set the System to active in the Web Portal
- D. Review functionality with customer



Diagnostics



[Run Diagnostics](#)

Site Status: Install

[Set Site to Active](#)

FFD...taller is accessing site as csmee@dsc.com

Welcome, Clint Smee
Monday, Dec 19 | [Sign Out](#)

[Clint Home](#)

Summary

History

Alerts

Automations

Schedules

System



Site Diagnostics Tool

Overall

Cellular

Wi-Fi

IP Devices

Z-Wave™

Security

- Running Diagnostics will automatically scan all technologies and indicate any concerns/errors

Results	
Cellular	Unknown
Wi-Fi	Good
IP Devices	Good
Z-Wave™	Good
Security	Good
<input type="button" value="Rescan All"/>	



Diagnostics



Site Diagnostics Tool

Overall Cellular **Wi-Fi** IP Devices Z-Wave™ Security

- 'Wi-Fi 'will indicate all wireless networks within range of the Gateway

Nearby Wireless Access Points		
SSID	Channel	Strength
jorgy	11	
Forbes	1	
home 59	2	
dlink	6	
linksys-Allstar	6	
home57	10	
NewfieNet	4	

Your Gateway is currently on channel **1**

This is the optimal channel; we recommend you do not change it.

Specify new channel:

Channel changed successfully; new channel is now 1



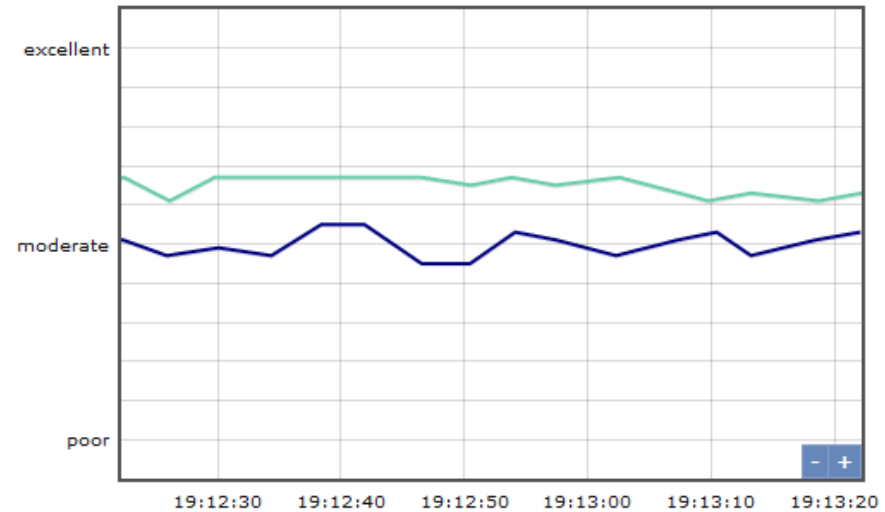
Diagnostics



Site Diagnostics Tool

Overall Cellular Wi-Fi IP Devices Z-Wave™ Security

IP Device Wi-Fi Signal Quality



- 'IP Devices' will indicate the signal strength of cameras and touchscreens

Legend:

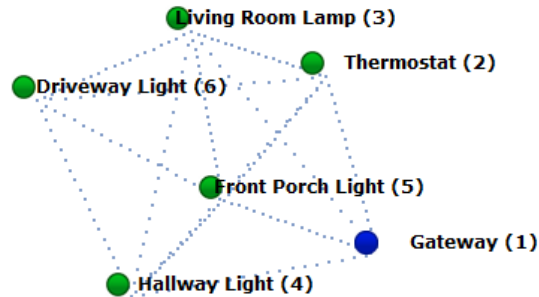
■	Camera Front Door Camera, ID = 000E8F75B247, Status = OK
■	Camera Front Yard Camera, ID = 000E8F75B284, Status = OK



Diagnostics









































Results

Number of devices: 6



- 'Z-Wave' will display the Mesh Network topology
- Relearn Mesh will reset the entire network, recreating a new 'Mesh'
- Rescan Z-Wave will search for all connected devices

Z-Wave Connectivity Table

	 Gateway (1)	 Thermostat (2)	 Living Room Lamp (3)	 Hallway Light (4)	 Front Porch Light (5)	 Driveway Light (6)
 Gateway (1)	-					
 Thermostat (2)		-				
 Living Room Lamp (3)			-			
 Hallway Light (4)				-		
 Front Porch Light (5)					-	
 Driveway Light (6)						-



Teach Customer

- Life Safety
 - Security Panel / Keypad
 - Sensors
 - Arm
 - Disarm
 - Emergency Buttons
 - Change/Program Access Code
 - KeyFob
 - Arm/Disarm
 - Panic



Teach Customer

- Web Portal

- Test from customer's computer, not yours!!
- Verify customers welcome email
 - activate the login account
- Bookmark URL
- Tabs: Summary, History, System
 - Description one line or less
 - Add more users
- Set up alert, automation, and schedule
- Online web portal help

- Mobile Portal and Application

- Check the kind of phone
- Where to download the applications (iPhone, Android)
- Or Mobile html (It's a "thin" version of web portal)





System Troubleshooting

Gateway Troubleshooting

Status LED Indications:

Flashing Power GREEN

- Gateway does not have an internet connection

GREEN DARK DARK GREEN

- Gateway is ready for activation

GREEN GREEN DARK GREEN

- Gateway is online and in a good state

GREEN GREEN DARK AMBER

- Gateway is online, one or more of the devices is offline



Gateway Offline

Only Power LED blinking Green

- Gateway is not communicating to the internet
- Connect the gateway to the home router, not to the cable modem/DSL router*
- Check the broadband connection; needs an IP. Use the installer laptop to verify internet connection
- Check the gateway Status page
- * DSL modem with a build-in router is fine. e.g. at&t 2WIRE. Always prepare a spare router as a test equipment.



Gateway Status Page

- Connect a laptop to the Gateway Device/LAN port
- Type the following at an internet browser
 - <https://192.168.107.1>
- Enter the activation key

iControl Networks iHub

Serial Number: 006035036f1d

Software Version: 4.1.0-50

Hardware Version: HW=3.4, BL=ICONTROL_CFE 1.4, PL=4.1.0-50

Api link: /rest/icontrol/nw/006035036f1d

Communication Status

Registry

Registry: <https://gatewayregistry.com/icsvr/GatewayIdService>

Server

Status: Network Connection Error

Server: null

Server: java.io.FileNotFoundException: <https://ihub->

Response: [dsc1.icontrol.com/gw/GatewayService/006035036f1d/connectInfo](https://ihub-dsc1.icontrol.com/gw/GatewayService/006035036f1d/connectInfo): <https://ihub-dsc1.icontrol.com/gw/GatewayService/006035036f1d/connectInfo>

Network ID: null

Next Update: not scheduled

Last Update: not since last boot

Connection

Status

Active

Connection: Broadband

Broadband

MAC ID: 00:c0:02:5d:bf:ed

IP Address: 192.168.1.104

Subnet Mask: 255.255.255.0

Gateway: 192.168.1.1

Devices

MAC ID: 00:c0:02:5d:bf:ed

IP Address: 192.168.107.1

Subnet Mask: 255.255.255.0

Gateway:

Backup



Gateway Not Activating

Power and Devices LED Green

- Ready for Activation, Ensure correct Activation Key
- Factory reset the gateway and try again if unable to Activate

To Reset Gateway

- With unit powered down, use a paperclip to press and hold the reset button and apply power
- Wait until all front LEDs flash 3 times, then release the reset button
- Note: Factory reset a gateway will take ~5 minutes



Camera Troubleshooting

Camera Failed to Add

- Check the status of the LEDs, both must be solid
- Verify the Y-cable is plugged into the Gateway
 - Device/LAN port
- Factory Reset the Camera
 - Hold Reset Button for 15s



Not Ready



Ready

Reset Button



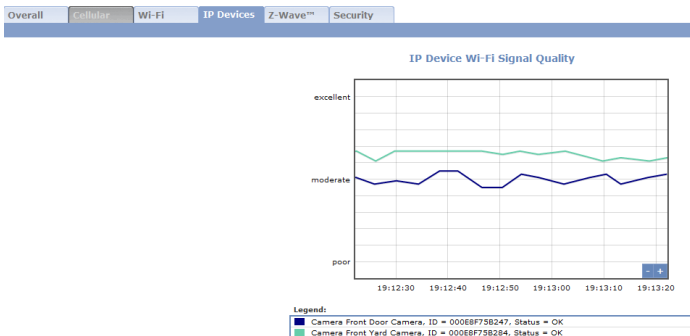
Wi-Fi Troubleshooting

Wi-Fi Device not coming online

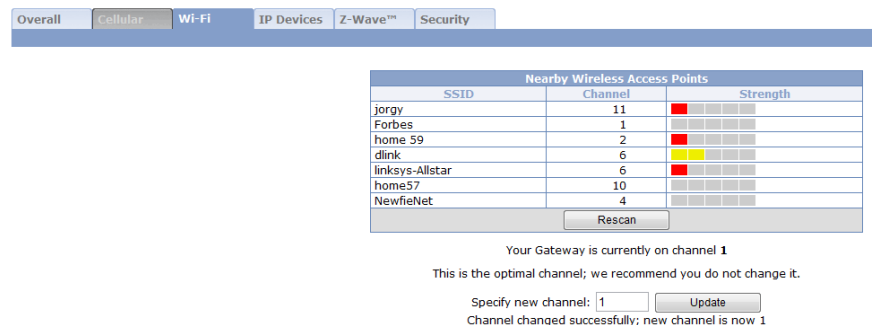
- Hardwire device to Gateway, verify device is operational
- Unplug the device, power cycle and move the device ~5 ft from the gateway, then move further away for possible Wi-fi range issue
- Check for 2.4 GHz Wi-Fi interference
- Use the 'Diagnostics' tool to check Wi-Fi signal strength
- Use the 'Diagnostics' tool to ensure no channel conflicts



Site Diagnostics Tool



Site Diagnostics Tool



Z-Wave Troubleshooting

Z-Wave Device Failed to Add

- Ensure device is within a few feet of Gateway
- Reset device through web portal and try adding again
- Check for 900 MHz range interference: Cordless phone, baby monitoring system

e.g. Summer Infant Day & Night Handheld Color Video Monitor 1.8" Screen
- switching the frequency from A to B should allow it to work with Z-Wave



Questions?

