

Navigan V3 Training

Remote Commissioning Tool for EnOcean Lighting Controls

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Before you get started, download and install Navigan 3, make sure it starts and recognizes the USB radio gateway stick.

<https://www.navigan.com>

NAVIGAN WIRELESS COMMISSIONER

Navigan™ Wireless Commissioner for easy configuration of EnOcean controllers

LED lighting is one of the most promising and fast-growing technologies of today. EnOcean is a worldwide radio standard for self-powered switches and sensors. It enables maximum flexibility, comfort, and security in a building. This proven technology is energy efficient and saves time as well as costs. EnOcean now offers a comprehensive LED control system in 902 MHz for the North American market or in 868 MHz for the European market based upon innovative self-powered sensors and switches, combined with LED fixture controllers and commissioning tools to simplify installation and setup.



NWC 300U (902 MHz for North America)

Using the Navigan™ Wireless commissioner

NWC 300U (902 MHz for North America) or NWC 300 (868 MHz for Europe), installers can easily configure LED controllers over the air in accordance with on-site requirements, define properties and settings as well as edit and store projects.

Download Navigan

Navigan™ Wireless Commissioner is a helpful software tool to link wireless devices from a laptop computer, for example switches to controllers, and to set parameters in the controller, for example occupancy timers.



[DOWNLOAD NOW](#)

Support: Hotline, Videos & Tutorials

Version: 3.1.20, Release Date: April 25, 2022

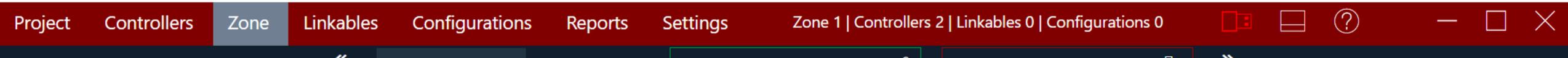
Navigan 2.1.0.2 Release May 8th 2020

Data Sheet NWC 300U – 902 MHz for North America (PDF)

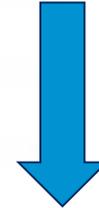
Data Sheet NWC 300 – 868 MHz for Europe (PDF)

LEDxU Navigan Parameters (PDF)

USB Stick inserted? Red Bar indicates no valid gateway stick is present!



NWC 300U (902 MHz for North America)



Watch the tutorial videos first !
<https://www.navigan.com/support/>

Tutorial Videos

Tutorial Video: Easy Lighting Retrofit / Navigan 3.0 Commissioning

Tutorial Video: Commission a classroom in under 3 minutes

Easy Lighting Retrofit / Navigan 3.0 Commissi... Copy link

Speed episode: Commission a classroom in un... Copy link

This Is Easyfit

SWITCHES | CONTROLLERS | SENSORS

Episode 1

Episode 2

LIGHTING CONTROL

HVAC CONTROL

Easy Lighting Retrofit / Navigan 3.0 Commissioning

Speed Room

Watch on YouTube

Watch on YouTube on a Classroom in Under 3 Minutes!

Navigan 3 Wireless Commissioner

Tutorial Video: Navigan 3 Scenes

Navigan 3.0 - Advanced Configuration Copy link

Navigan 3.0 - Scenes Copy link

This Is Easyfit

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SWITCHES | CONTROLLERS | SENSORS

SWITCHES | CONTROLLERS | SENSORS

Episode 3

Episode 4

LIGHTING CONTROL

HVAC CONTROL

LIGHTING CONTROL

HVAC CONTROL

Navigan 3.0 - Advanced Configurations

Scenes

Device Discovery - Zone Management - Custom Configuration

Programmable Buttons / Scene Control

Watch on YouTube

Watch on YouTube

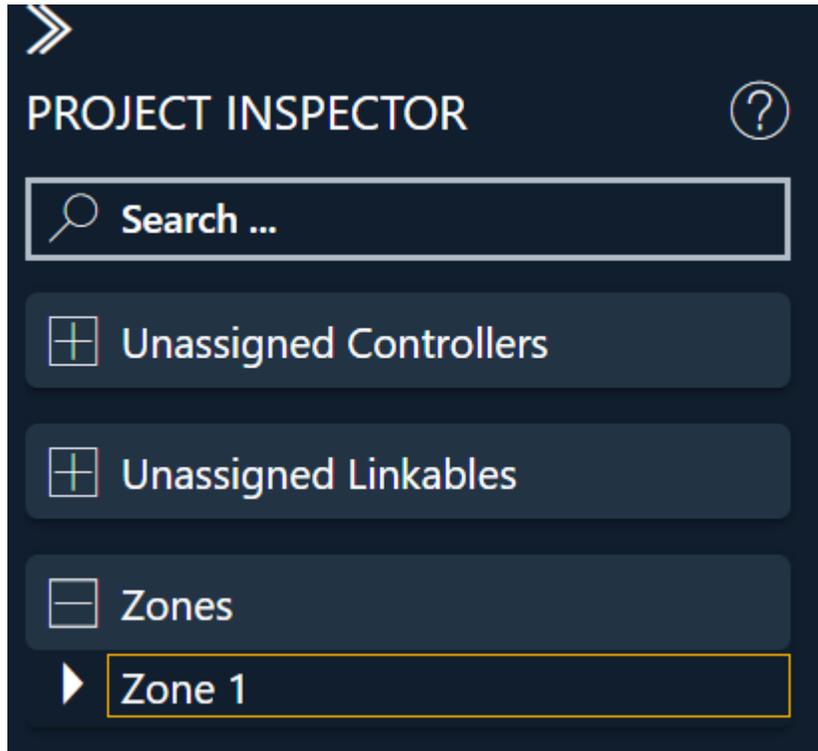
Tutorial Video: Force to send Occ messages

Tutorial Video: Occupancy sensor introduction

Tutorial Video: OSC OSW back and battery

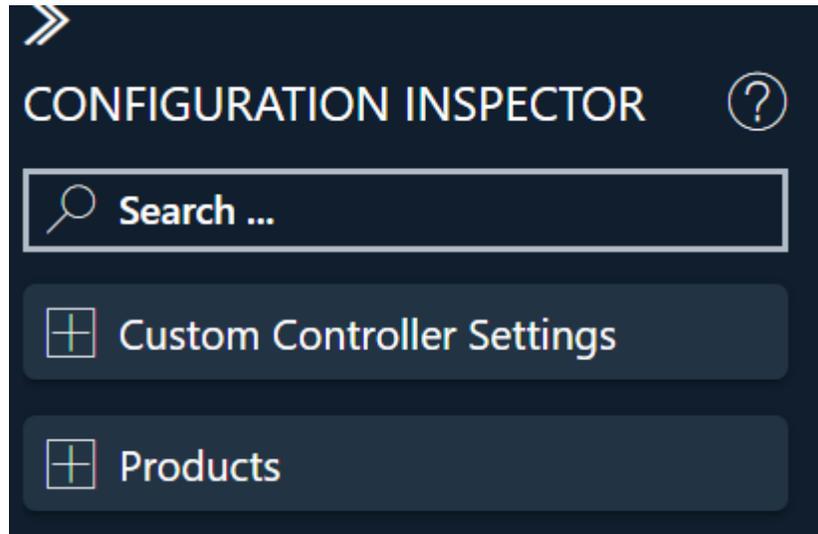
Tutorial Video: Send out LRN messages with occ sensors

Project Inspector, always present to the right at controller, zone, linkables and settings tabs.



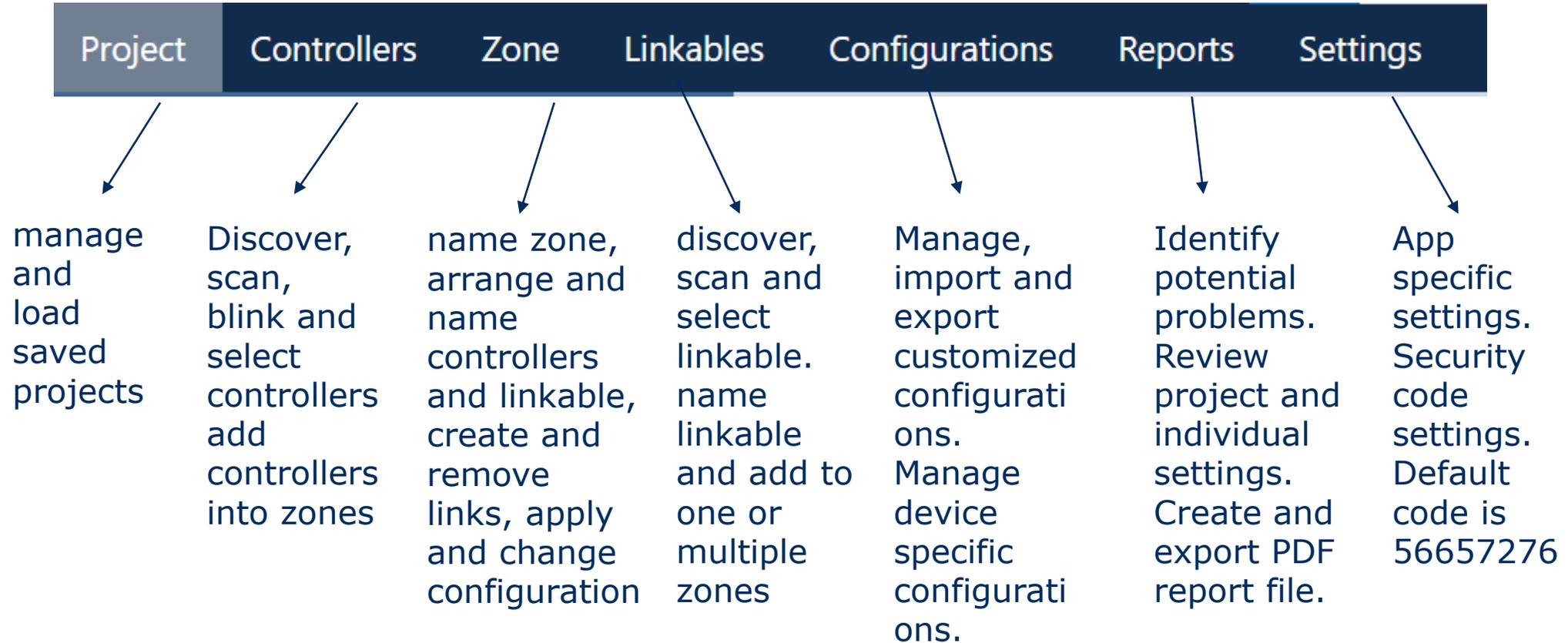
Create new zones
Search for specific devices
Find unassigned devices
Switch between multiple zones

Configuration Inspector, always present to the right for configuration tab.



Search for specific configurations
Save project specific configurations

Navigan Main Tabs



Suggested comissioning flow:

Start new file

Create and name first zone

Scan or identify controllers for this zone

Name controllers and add to zone

Move controllers as needed for easy future identification

Apply or change configuration as needed

Scan or identify linkable, name and add to this zone

Establish links, test and inspect.

Repeat same steps for next zone as needed

USB QR code scanner tool

- Acts like a keyboard and sends device information to Navigan
- Test the function with any text editor
- Use controller tab to scan controllers
- Use linkable tab to scan linkable
- Each EnOcean device has a detachable QR code
- Place outside on fixtures, devices or in as built plans

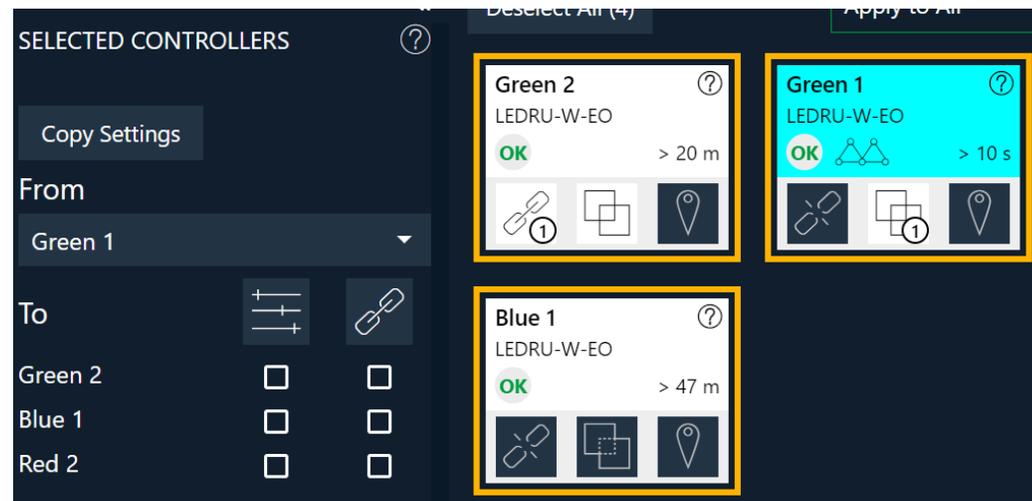


Things you can do in the zone tab

- Rename zone
- Remove controllers or the entire zone
- Name controller, create, inspect and remove links
- Change settings, create individual settings template
- Copy settings and links to other controllers
- Enable repeaters
- Test controller function, set output, read on time.
- Resolve memory conflicts
- Establish primary – secondary groups

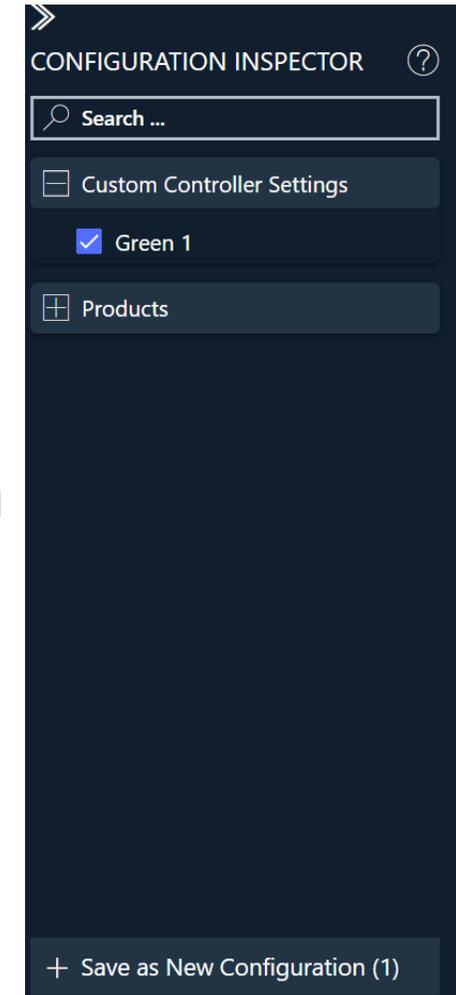
Copy custom controller configurations to other controllers

- In zone tab, change configuration as needed
 - Select all controllers which should receive those settings
- Copy settings and links as needed



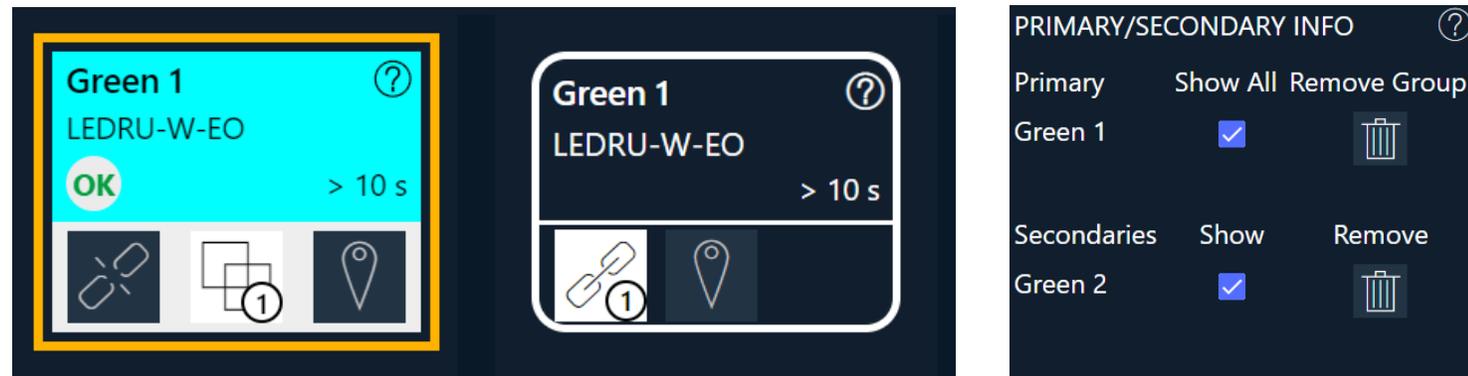
Create custom controller configuration template

- In zone tab, change configuration as needed
- Switch to configuration tab
- Select custom configuration and save as new
- Export and import as needed.
- Choose individual colors for custom configuration
- In zone tab, drag and drop configurations to controllers



Primary – secondary group configuration, a great way to quickly establish groups which always stay in sync

- Primary controller will act as a gateway and send commands for any change of status or as a heartbeat every 30s.
- Secondary controllers must be linked to the gateway only.
- Secondary controllers will match the primary controller status
- Just drag and drop secondaries over primary.
- Secondary controllers will be hidden per default
- Primary controller will also be shown as linkable for other groups or zones



Repeater

Too many repeater can make things worse

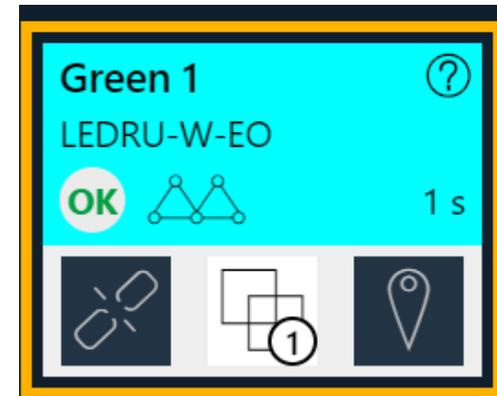
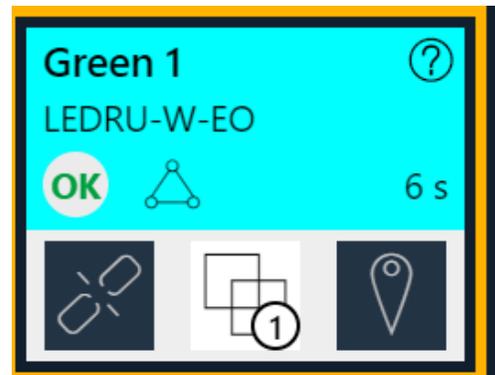
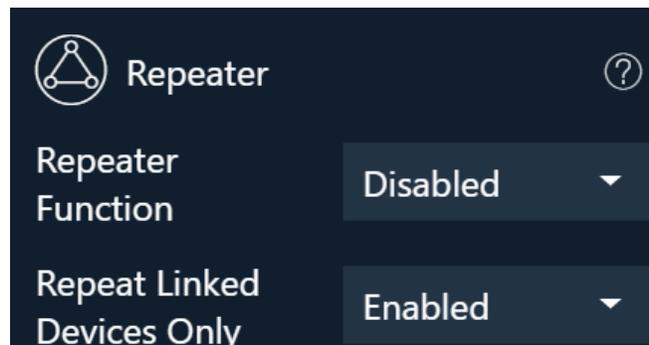
Radio signals can collide if too many repeaters are enabled without cause

Enable repeater only if necessary

Choose location or repeating controller wisely, usually in the center of the zone

Think about which signals need to be repeated

“One hop” and “linked devices only” are the first choice of settings

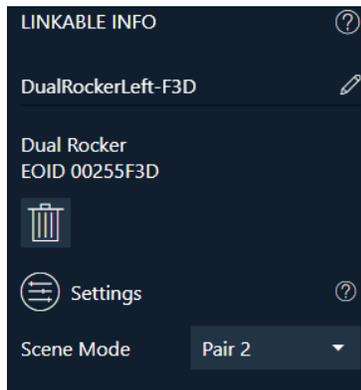


Controller status reporting

- Disabled per default to minimize radio traffic
- Will be enabled for primary controllers automatically
- Can be enabled as needed – typically 10 minutes heartbeat.

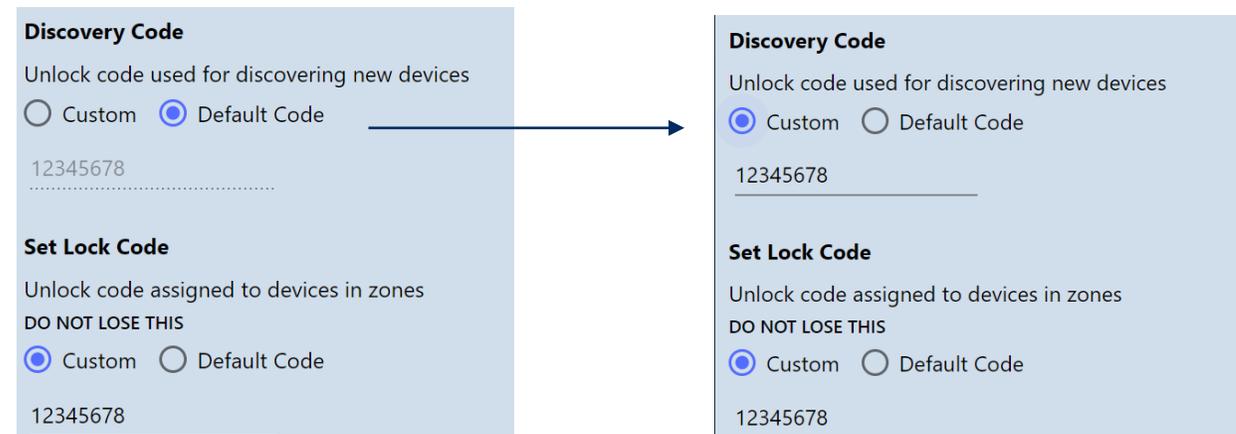
Light scenes

- Four individual scene values can be set in each controller
 - Pair a rocker switch as scene switch, it will call those individual scenes. For example, set scene 3 to 50% at controller 1 and to 25% at controller 2. If scene button 3 is pressed, controller 1 will be set to 50% and controller 2 to 25%.
1. Select single or double rocker intended to be a scene switch
 2. On the left side, select scene mode Pair 1 or Pair 2
 3. Drag and drop the rocker switch to all controllers who should call the scene



Set individual security unlock pin for new installations

- Right after starting Navigan, go to settings tab
- Choose custom code for unlock code
- New devices need to be discovered with the default code
- As soon as controllers are moved into a zone, the code will be changed.
- For future discoveries or modifications, custom code needs to be set



Thank you for your attention.

Would you like to learn more? Simply contact us per email:

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