

Navigan™ Wireless Commissioner NWC 300 / NWC 300U

---

Navigan™ Wireless Commissioner NWC 300 / NWC 300U

**TABLE OF CONTENT**

<b>1</b>	<b>Product Description .....</b>	<b>2</b>
<b>2</b>	<b>Requirements .....</b>	<b>2</b>
<b>3</b>	<b>Compatible Products .....</b>	<b>3</b>
<b>4</b>	<b>Steps to Install Navigan .....</b>	<b>3</b>
<b>5</b>	<b>Steps to commission an LED controller.....</b>	<b>5</b>
<b>6</b>	<b>Steps to ConfiGure an LED controller.....</b>	<b>9</b>



Observe precautions! Electrostatic sensitive devices!

Patent protected:

WO98/36395, DE 100 25 561, DE 101 50 128,  
WO 2004/051591, DE 103 01 678 A1, DE 10309334,  
WO 04/109236, WO 05/096482, WO 02/095707,  
US 6,747,573, US 7,019,241

## Navigan™ Wireless Commissioner NWC 300 / NWC 300U

## 1 PRODUCT DESCRIPTION

Navigan™ is a PC based software tool to enable wireless commissioning of compatible products using the EnOcean Alliance RECOM standard.

Navigan™ enables linking sensors and switches to line powered controllers, configuring controller parameters, and creating backup files of the projects that you have commissioned.

## 2 REQUIREMENTS

- PC with Windows 7, Windows 8 or Windows 10 with one available USB slot (Navigan™ only works on Windows)
- Navigan™ Software available from:  
[www.enocean.com/nwc](http://www.enocean.com/nwc)



- Navigan™ Wireless Commissioner NWC 300 / NWC 300U USB Stick



## Navigan™ Wireless Commissioner NWC 300 / NWC 300U

### 3 COMPATIBLE PRODUCTS

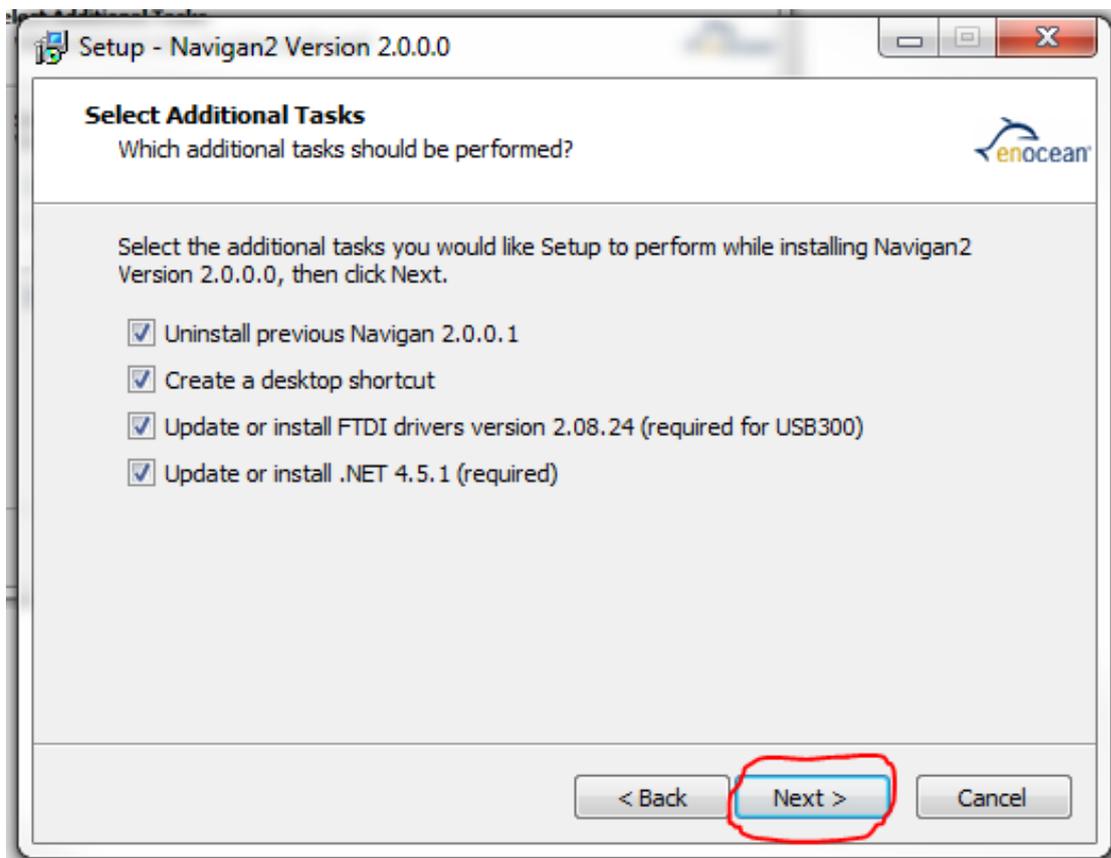
The following products are supported by NWC 300 / NWC 300U:

- Controllers: [LEDR](#) (0-10V LED Zone Controller with Relay), [LEDD](#) (0-10V LED Zone Controller), [EISM](#) (In-line Switch Module)
- Sensors: [EOSC](#) (Ceiling Occupancy Sensor), [EOSW](#) (Wall Occupancy Sensor), [ELLS](#) (Light Level Sensor), [EDWS](#) (Door Window Sensor)
- Switches: [ESRP](#) (Single Rocker Switch), [EDRP](#) (Double Rocker Switch), [PTM 210](#) (Pushbutton Switch Module), EKCS (Key Card Switch Module)

Note that not all controllers support all types of sensors and switches.

### 4 STEPS TO INSTALL NAVIGAN

**Step 1:** Download and install the latest Navigan™ software from the following website:  
[www.enocean.com/nwc](http://www.enocean.com/nwc)



## Navigan™ Wireless Commissioner NWC 300 / NWC 300U

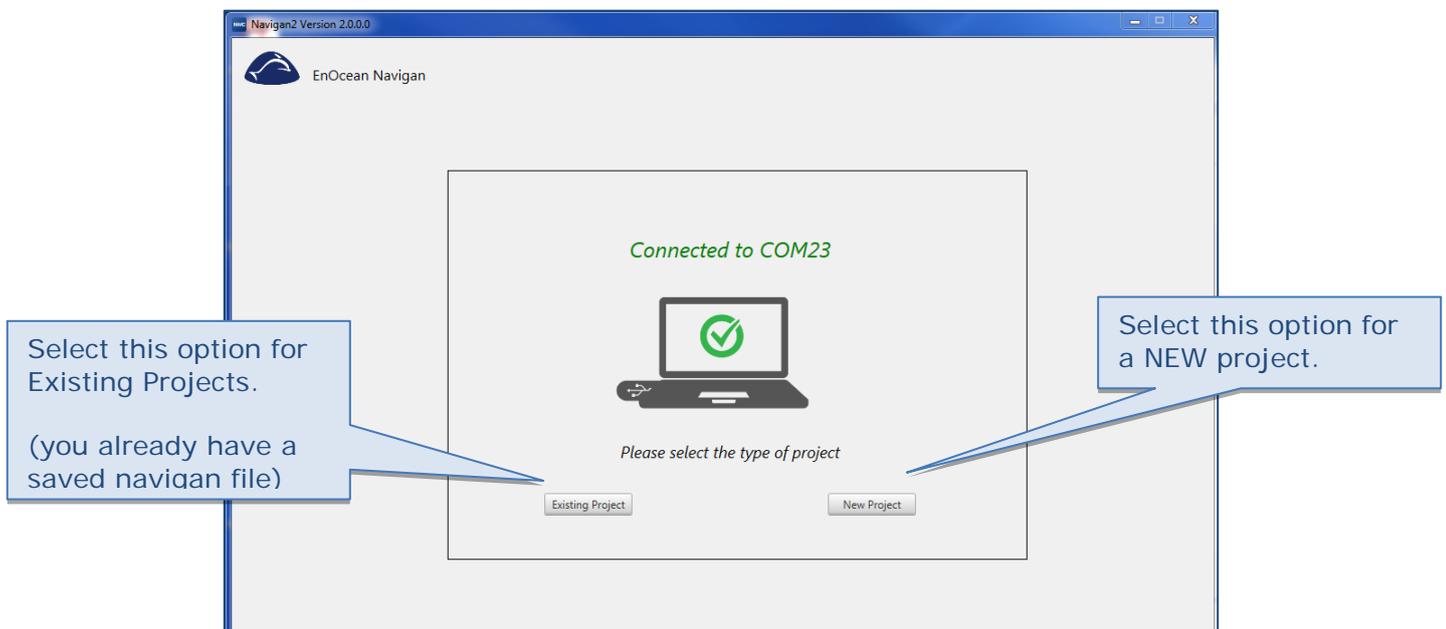
---

**Step 2:** Install the controller in the proper location and place your motion sensors exposed to light in order to charge and have your switches accessible for the next steps.

**Step 3:** Apply power to the controller as described in the controller installation guide.

**Step 4:** Insert Navigan™ Wireless Commissioner NWC 300U into an available USB port on the PC and wait for the driver to install.

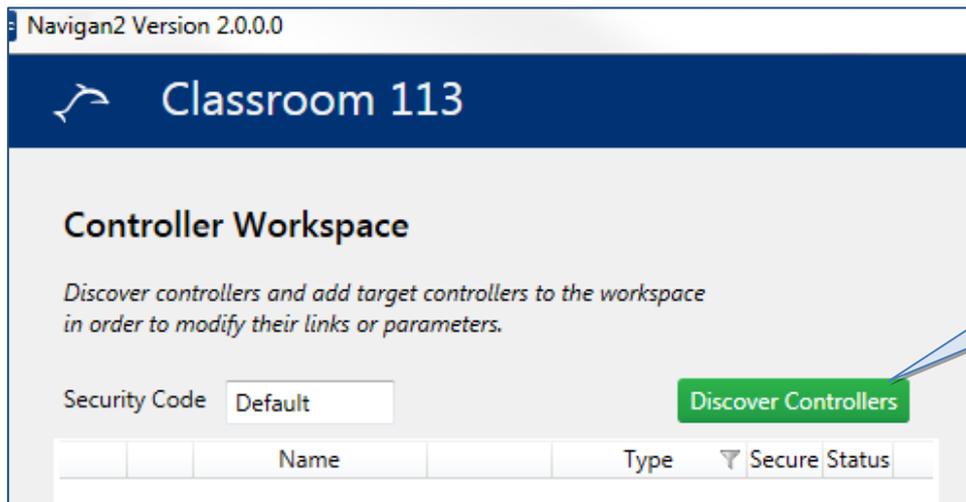
**Step 5:** Start Navigan™ on the PC.



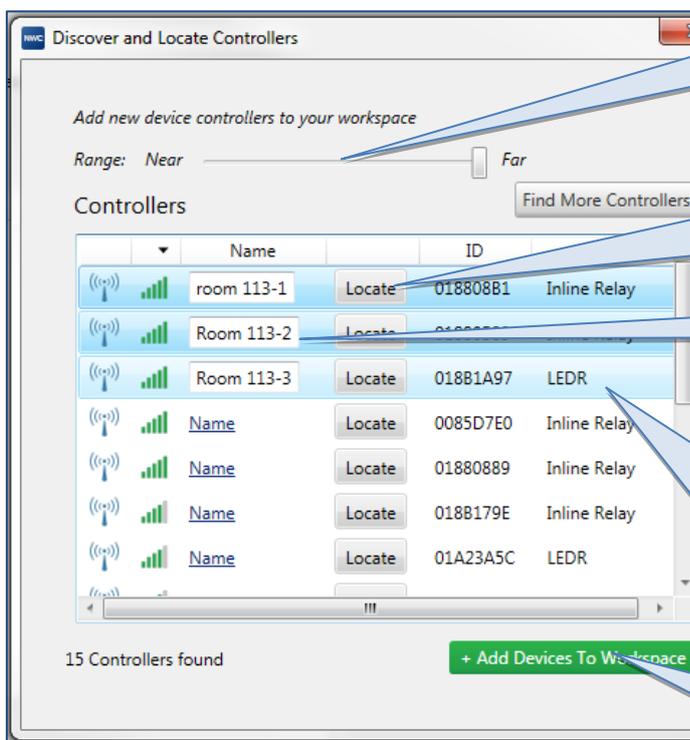
Navigan™ Wireless Commissioner NWC 300 / NWC 300U

## 5 STEPS TO COMMISSION AN LED CONTROLLER

**Step 1:** Locate and identify the controller you would like to commission using the “Locate” function.



Click “Discover Controllers”



This bar hides controllers that are physically further away, helpful for larger projects by reducing visible devices.

Use the locate button to blink the connected luminaire(s) associated with this ID. If the device you are seeking is not in the list, click “Find More Controllers”

Now that you see where it is, Type in a logical name for the controller.

When you’ve located and named all the devices in the room, you need to move them to the workspace for configuration. Click on the controller to highlight in a light blue. You can select more than one by using CTRL-Click, SHIFT-Click, or CTRL-A to select all.

Once the desired controllers are highlighted click “Add Devices to Workspace”

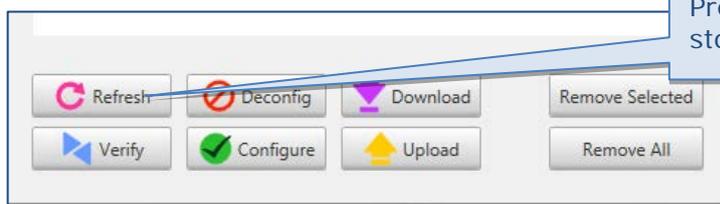
**Hint** You can Right click on these relays and Name them all at once. Right Click and then “Rename”

Navigan™ Wireless Commissioner NWC 300 / NWC 300U

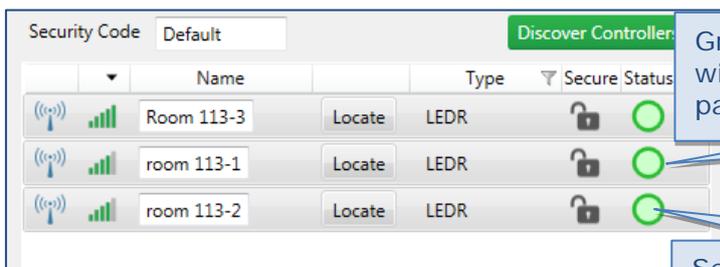
**Step 2:** Download the current configuration from the controller.



Now you are back in the workspace, where controllers are configured.  
Click on one of the relays then press CTRL-A on your keyboard to select all (you can also do them one at a time)



Press the "Refresh" button to download all stored values in the controller.



Green circle means it was able to communicate with the controller and downloaded all parameters successfully.

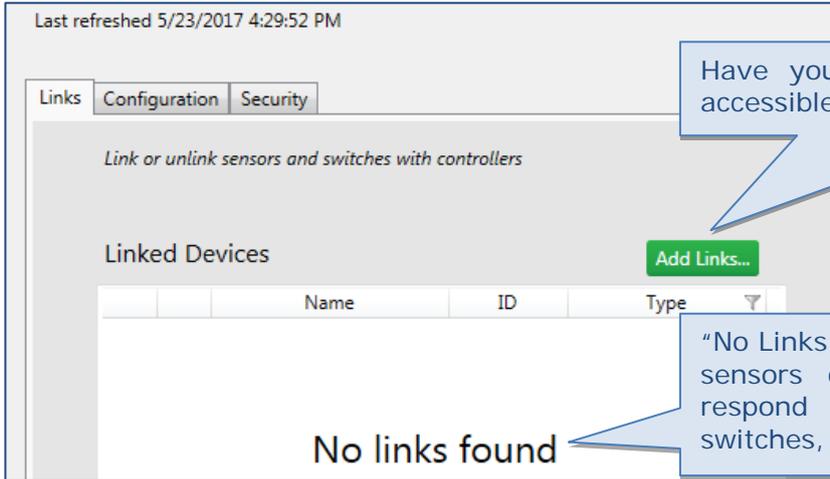
Select only ONE Relay to be configured. (you can copy and paste the settings later)

**Hint 1** For advanced features, see this Video: [https://youtu.be/y0\\_soflZhBU](https://youtu.be/y0_soflZhBU)

**Hint 2** To see advanced options, RIGHT-Click on the controller. (copy, paste, rename, set max light level, Top trim the lights)

Navigan™ Wireless Commissioner NWC 300 / NWC 300U

**Step 3:** Link sensors and/or rockers to the controller and set controller parameters to meet application needs.



Last refreshed 5/23/2017 4:29:52 PM

Links Configuration Security

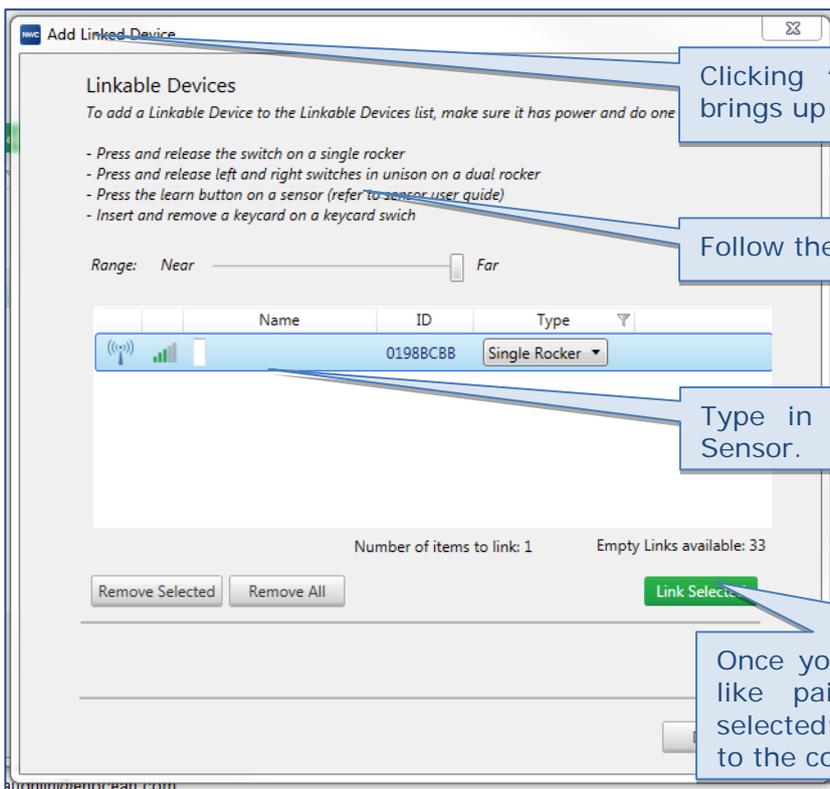
Link or unlink sensors and switches with controllers

Linked Devices Add Links...

Name	ID	Type
No links found		

Have your sensors and switches in hand or accessible and then Click "Add Links"

"No Links Found" means it is not paired with any sensors or switches, the controller will not respond to anything yet. (motion sensors, switches, etc)



Add Linked Device

Linkable Devices

To add a Linkable Device to the Linkable Devices list, make sure it has power and do one

- Press and release the switch on a single rocker
- Press and release left and right switches in unison on a dual rocker
- Press the learn button on a sensor (refer to sensor user guide)
- Insert and remove a keycard on a keycard switch

Range: Near  Far

Name	ID	Type
((( )))	0198BCBB	Single Rocker

Number of items to link: 1    Empty Links available: 33

Remove Selected    Remove All    Link Selected

Clicking "Add Links" on the previous screen brings up this box...

Follow these instructions for each device type.

Type in a logical name for the Switch or Sensor.

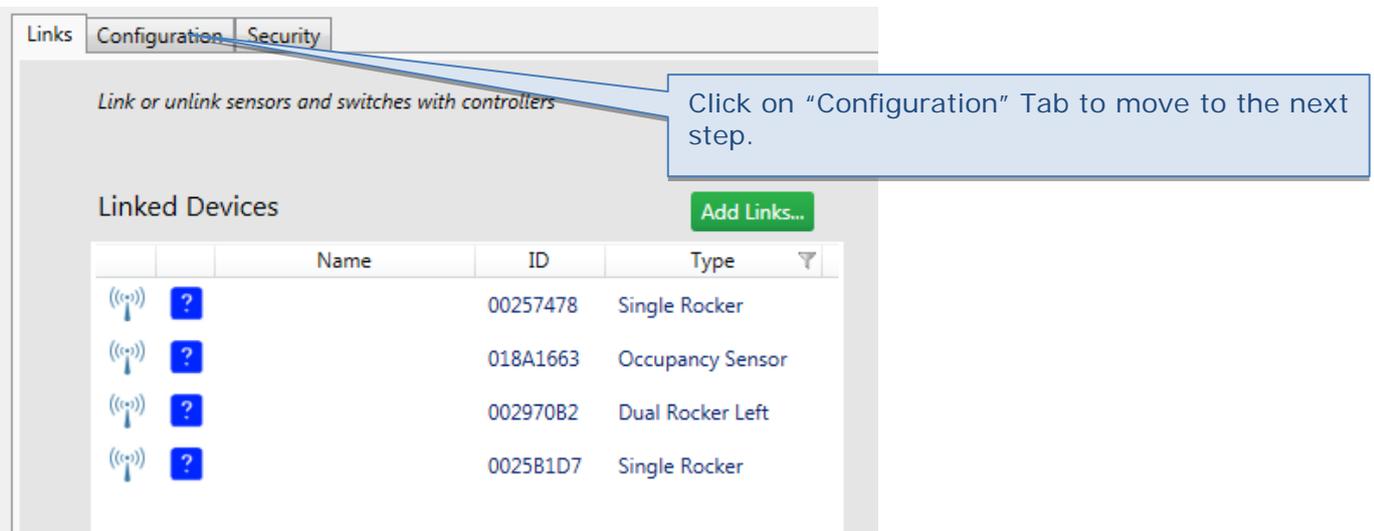
Once you have selected the devices you would like paired with this controller click "link selected" only those highlighted in blue will link to the controller.

<b>Hint</b>	You've finished PAIRING the devices, now go on to configuration to determine how the controller will respond to various signals.
-------------	--

Navigan™ Wireless Commissioner NWC 300 / NWC 300U
 

---

**Step 4:** Validate that the controller properly responds to input from the linked sensors or rockers according to the configuration.



Link or unlink sensors and switches with controllers

Linked Devices Add Links...

	Name	ID	Type
 		00257478	Single Rocker
 		018A1663	Occupancy Sensor
 		002970B2	Dual Rocker Left
 		0025B1D7	Single Rocker

**Hint 1**

If the switches and sensors show up in this list they are actively paired to the controller and will control it. To add more devices to this controller click on "Add Links" and repeat the process.

**Hint 2**

The  indicates the software has not heard from that device recently. It is still paired correctly. Pressing the switch or sensor will remove the .

**Hint 3**

Pressing the learn button on a sensor will flash all controllers it is actively paired with. This is a good test to make sure you paired them correctly.

**Step 5:** Repeat 1 – 4 for each controller you want to commission.

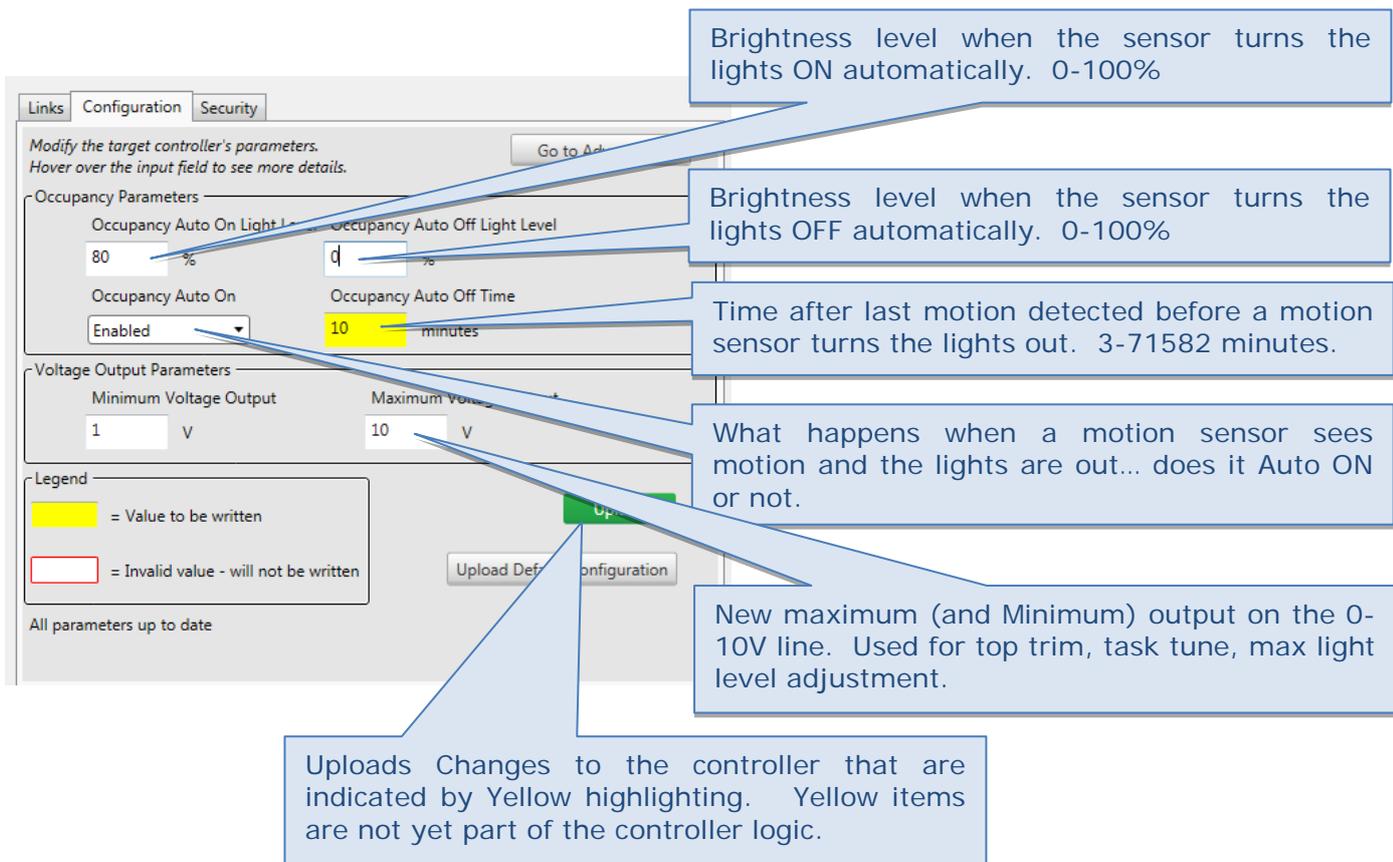
**Step 6:** Perform a functional validation of the full installation and save your project for future reference before closing Navigan™.

Navigan™ Wireless Commissioner NWC 300 / NWC 300U

## 6 STEPS TO CONFIGURE AN LED CONTROLLER

Use the configuration Tab and then follow the instructions for each parameter. Holding your mouse over any box will bring up the list of options and a description.

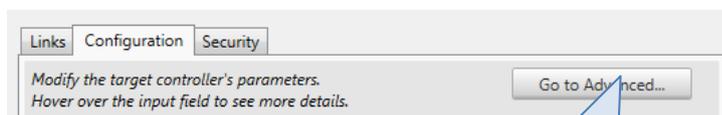
Your installation will have unique requirements that should be adjusted as needed. Please speak with your project coordinator to have a clear understanding of your project requirements.



The screenshot shows the configuration interface for an LED controller. It includes sections for Occupancy Parameters, Voltage Output Parameters, and a Legend. Callouts provide detailed explanations for several key parameters:

- Brightness level when the sensor turns the lights ON automatically. 0-100%**: Points to the 'Occupancy Auto On Light Level' input field, which is currently set to 80%.
- Brightness level when the sensor turns the lights OFF automatically. 0-100%**: Points to the 'Occupancy Auto Off Light Level' input field, which is currently set to 10%.
- Time after last motion detected before a motion sensor turns the lights out. 3-71582 minutes.**: Points to the 'Occupancy Auto Off Time' input field, which is currently set to 10 minutes and is highlighted in yellow.
- What happens when a motion sensor sees motion and the lights are out... does it Auto ON or not.**: Points to the 'Occupancy Auto On' dropdown menu, which is currently set to 'Enabled'.
- New maximum (and Minimum) output on the 0-10V line. Used for top trim, task tune, max light level adjustment.**: Points to the 'Maximum Voltage Output' input field, which is currently set to 10V.
- Uploads Changes to the controller that are indicated by Yellow highlighting. Yellow items are not yet part of the controller logic.**: Points to the 'Upload Definition Configuration' button.

The Legend indicates that yellow highlighting means 'Value to be written' and red highlighting means 'Invalid value - will not be written'. The status 'All parameters up to date' is shown at the bottom of the configuration area.



This screenshot shows the top portion of the configuration interface, including the 'Links', 'Configuration', and 'Security' tabs. Below the tabs, there is a button labeled 'Go to Advanced...'. A callout points to this button.

For more Advanced parameter adjustment click "go To Advanced". Each parameter is explained inside. For support please email [Navigan@enocean.com](mailto:Navigan@enocean.com)