Get Wired with C-Bus

SpaceLogic C-Bus Commission C-Bus Sensors



Getting Started

v1.0 February 2026

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Aim of this Document

The aim of this document is to highlight the key differences in the presentation of C-Bus sensors in SpaceLogic C-Bus Commission, helping to:

- Understand how a C-Bus sensor is displayed in the Properties window, including:
  - C-Bus 360° Flush Sensor 5753L
  - C-Bus 360° Surface Mount Sensor 5754ODPE
  - C-Bus 90° Surface Mount Sensor 5751L
  - C-Bus Outdoor Sensor 5750WPL

- Highlight key sensor features that are presented differently, including:
  - Virtual Keys
  - Internal Timer
  - Occupancy Enable / Disable
  - Join Mode
  - Corridor Linking
  - Scenes

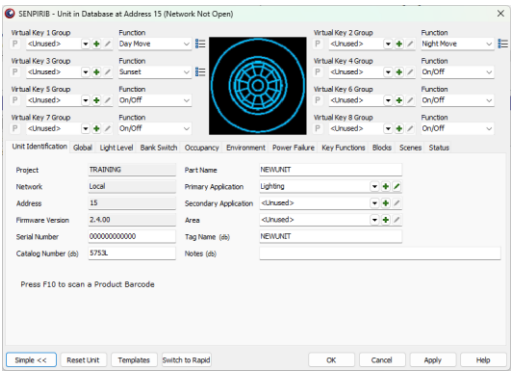
To help fully understand the contents of this document, you must have a solid understanding of the following pre-requisite knowledge:

- The Day & Night Move functions of C-Bus sensors
- How an internal timer works inside a C-Bus sensor
- The Graphical User Interface's (GUI's) for a C-Bus sensor in C-Bus Toolkit
- Recommended practices when operating in both software applications, C-Bus Toolkit & SpaceLogic C-Bus Commission. A Quick Start Guide on this topic can be found here

Sensors in C-Bus Toolkit

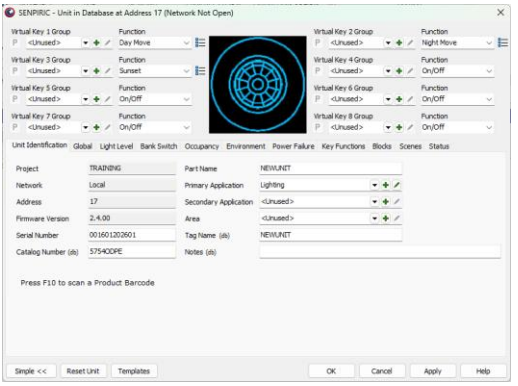
Recall that C-Bus sensors have the Graphical User Interface's (GUI's) for the following sensors:

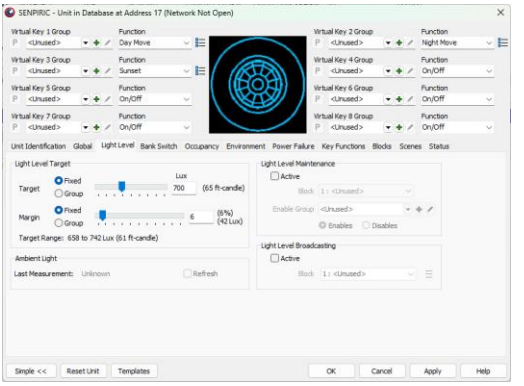
C-Bus 360° Flush Sensor 5753L





C-Bus 360° Surface Mount Sensor 5754ODPE





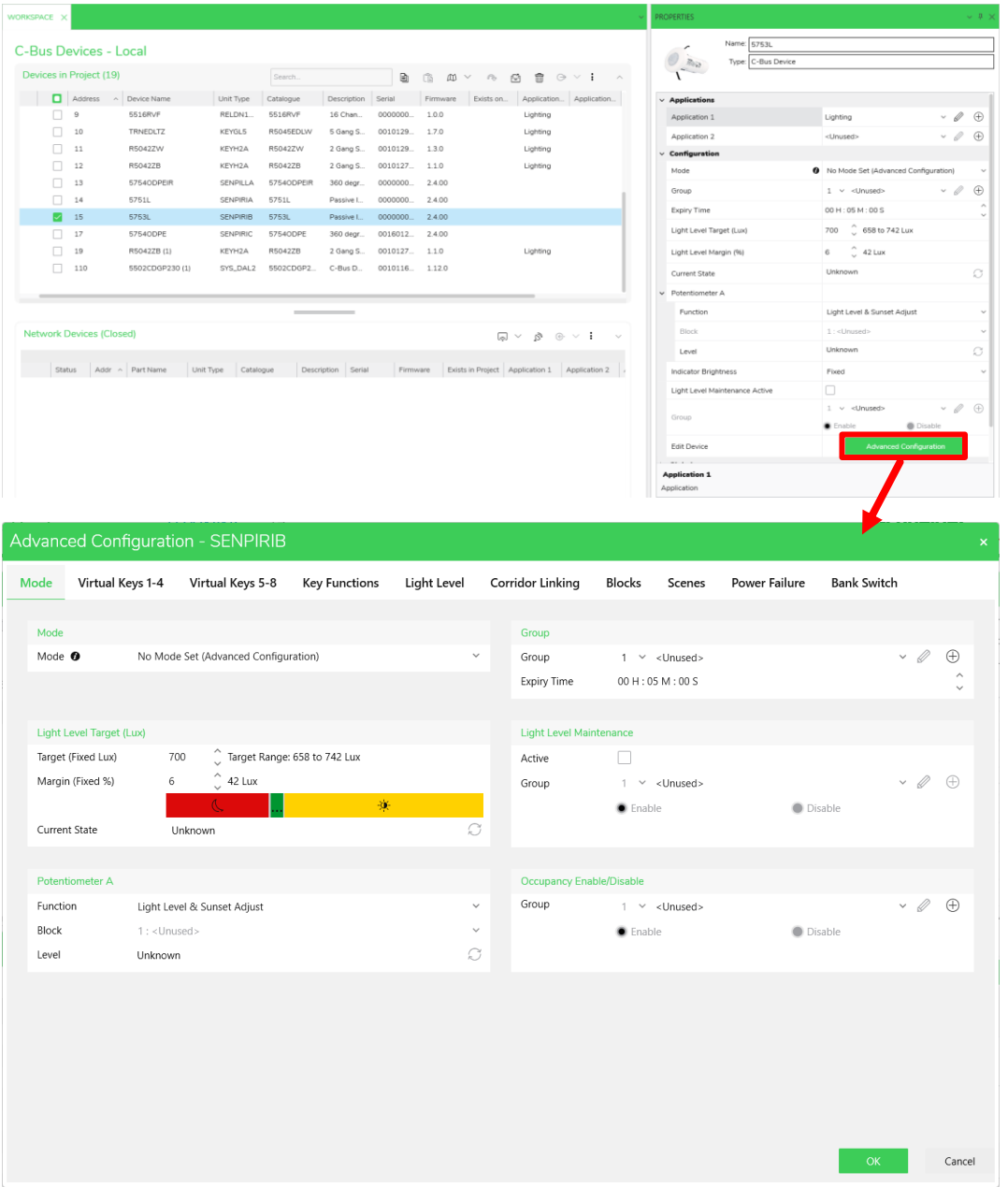
As well as C-Bus Toolkit; C-Bus sensors can now be programmed in C-Bus Commission, helping to create a single commissioning experience for common C-Bus devices.

The programmable features of the C-Bus Sensors have not changed; it is purely that they can now be programmed in both C-Bus software applications.

Sensors in C-Bus Commission

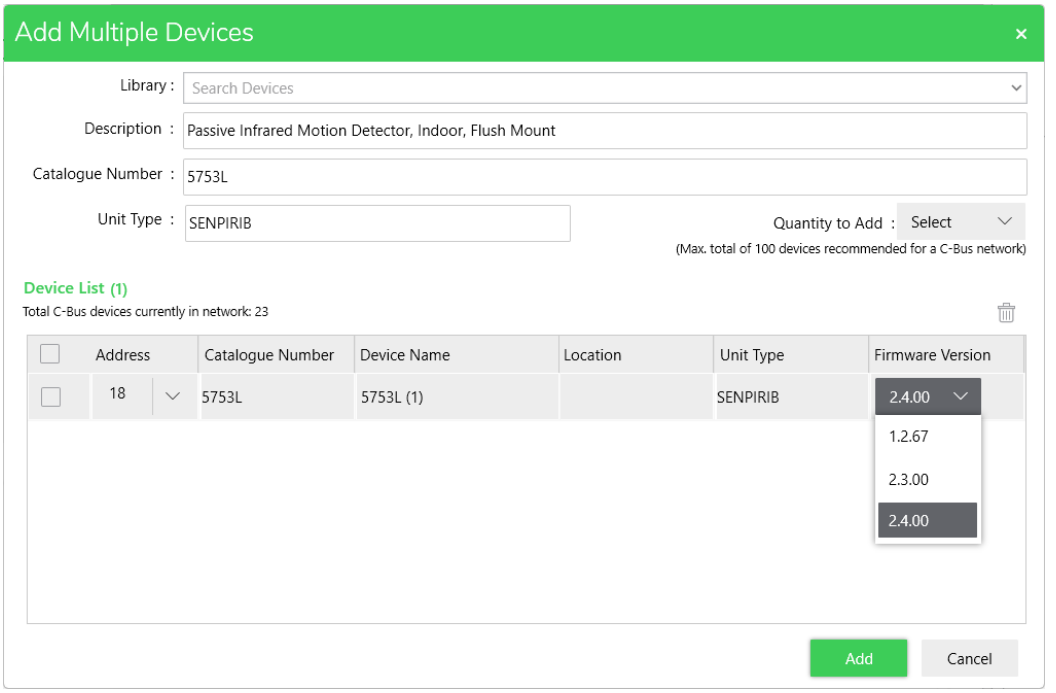
The following screenshot displays how a C-Bus sensor appears when loaded in the Properties window of SpaceLogic C-Bus Commission:

C-Bus 360° Flush Sensor 5753L



C-Bus Sensor Firmware

In SpaceLogic C-Bus Commission when a sensor is added from the **Library**, you can select current or previous versions of firmware; however, only the latest version can be programmed in the C_Bus Commission software:



The hardware & programmable features of the C-Bus sensors have not changed; it is purely that they are supported in both software applications

C-Bus Sensor Firmware

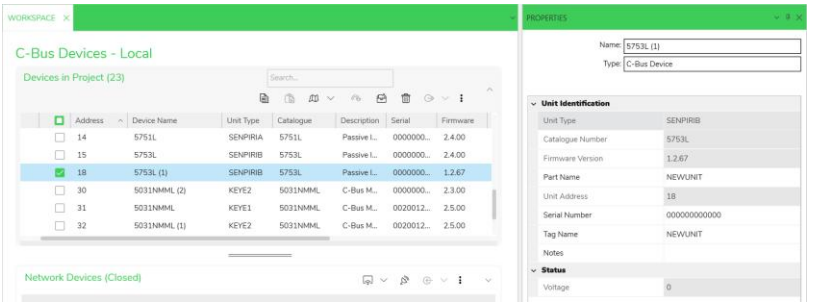
Consider 2 × C-Bus sensors in C-Bus Commission with the following firmware:

	Address	Device Name	Unit Type	Catalogue	Description	Serial	Firmware
☐	14	5751L	SENPIRIA	5751L	Passive I...	0000000...	2.4.00
☐	15	5753L	SENPIRIB	5753L	Passive I...	0000000...	2.4.00
☐	18	5753L (1)	SENPIRIB	5753L	Passive I...	0000000...	1.2.67
☐	30	5031NMML (2)	KEYE2	5031NMML	C-Bus M...	0000000	2.3.00

Notice the difference of what properties are displayed when each sensor is loaded into the Properties window:

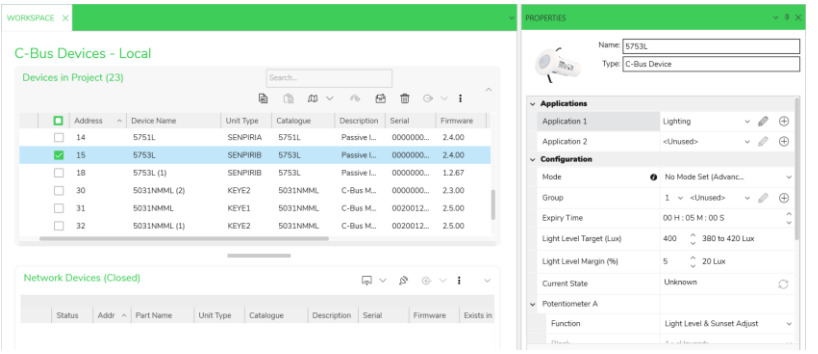
C-Bus 360° Flush Sensor 5753L Firmware v1.2.67

Only basic C-Bus properties are visible, no ability to configure the sensor



C-Bus 360° Flush Sensor 5753L Firmware v2.4.0

Sensor can be configured

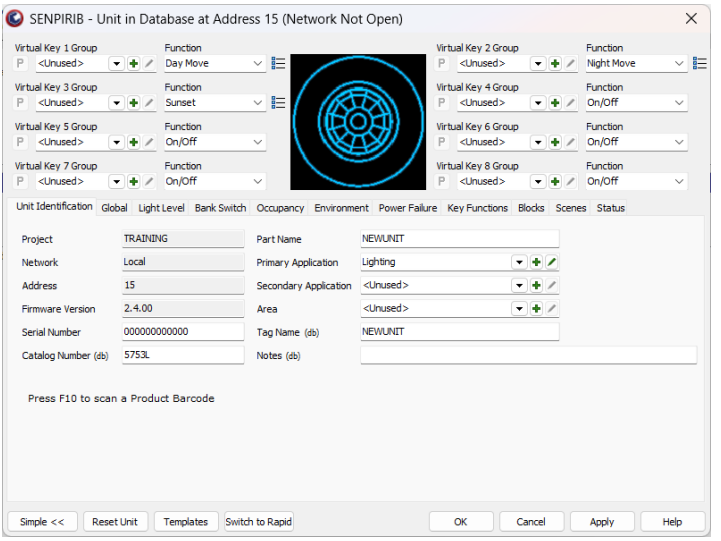


In C-Bus Commission, the properties of a C-Bus sensor can only be configured if it uses the latest available firmware version; in this example, the latest for a 5753L is v2.4.0

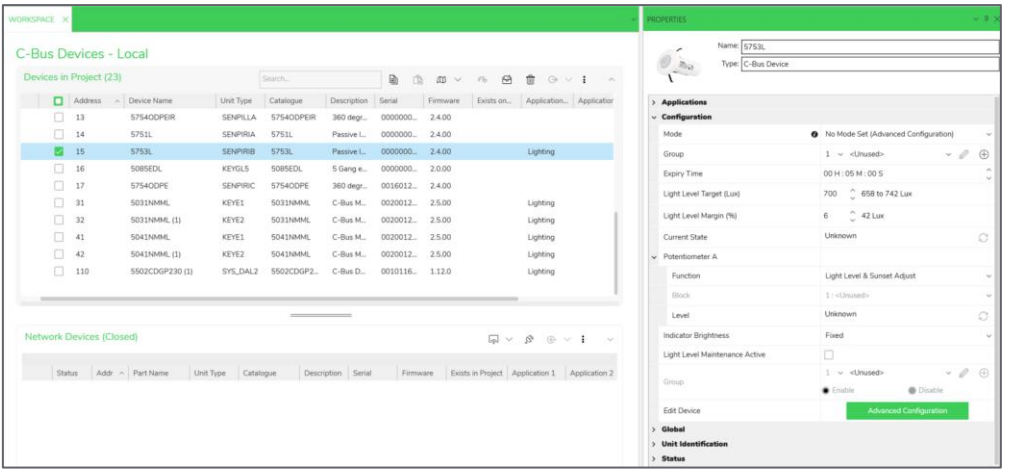
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Sensors in C-Bus Commission

The programmable features of the C-Bus sensors have not changed; it is purely that they can now be programmed in both software applications. In C-Bus Toolkit the GUI for a C-Bus module is presented as follows:



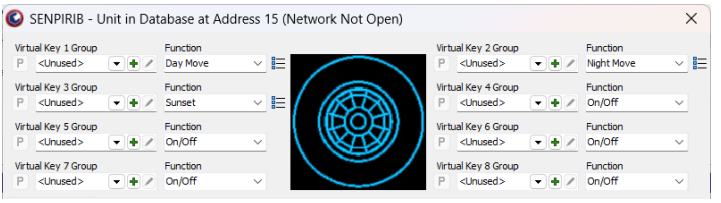
In SpaceLogic C-Bus Commission, a C-Bus sensor appears as follows when loaded into the Properties window:



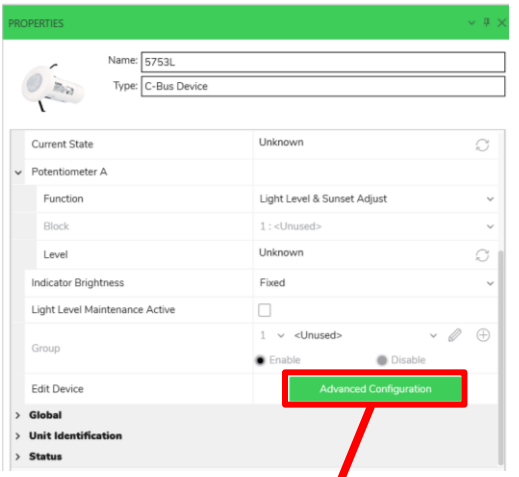
A Key difference between programming a C-Bus sensor in C-Bus Toolkit versus C-Bus Commission is where the Virtual Keys are programmed

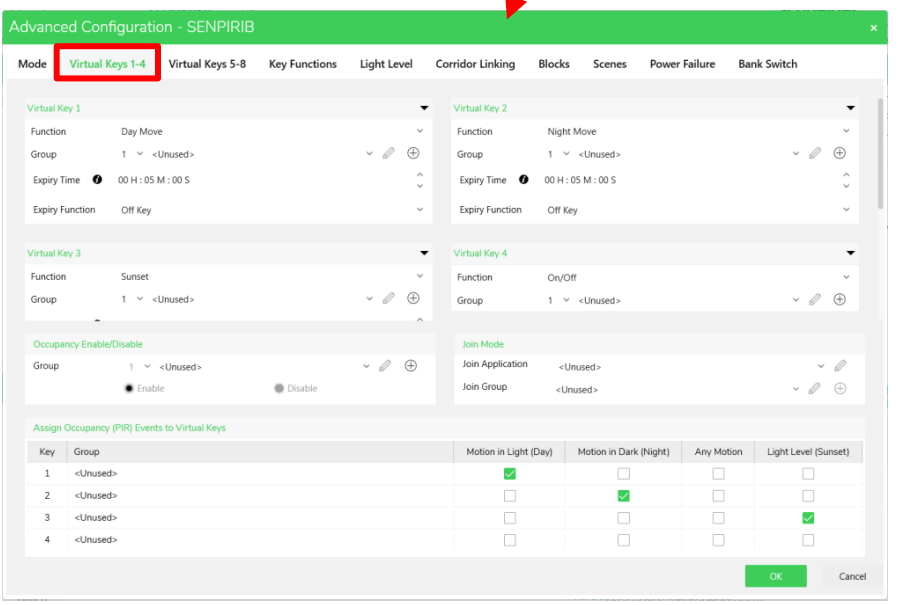
Sensors in C-Bus Commission

In C-Bus Toolkit, the fields to program the **Virtual Keys** of a C-Bus sensor appear at the top of its GUI:



In SpaceLogic C-Bus Commission, the programming of a C-Bus sensor's **Virtual Keys** is accessible through the **Advanced Configuration** button:





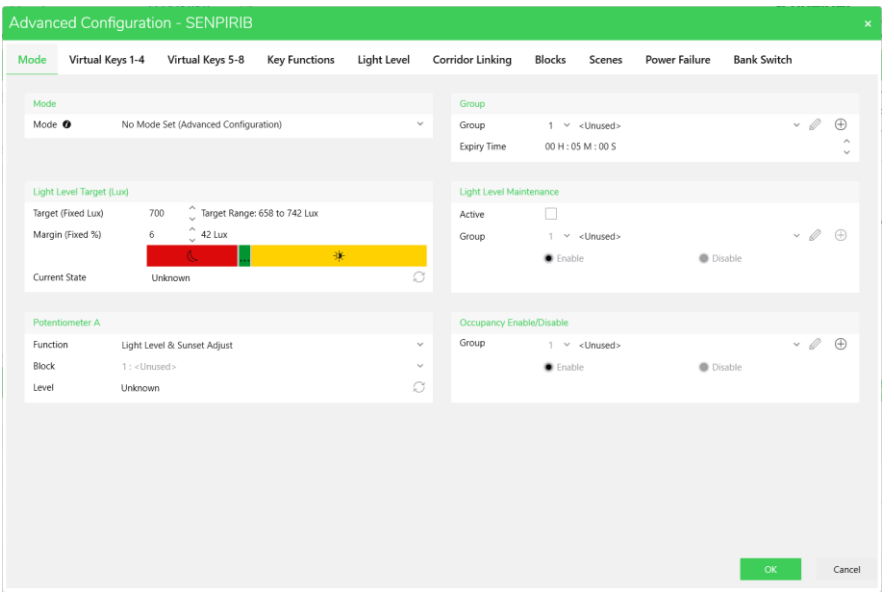
Advanced Configuration

The **Advanced Configuration** dialog box provides the capability to program:

- Mode
- Virtual Keys 1 - 4
- Virtual Keys 5 - 8
- Key Functions
- Light Level
- Corridor Linking
- Blocks
- Scenes
- Power Failure
- Bank Switch

The **Mode** tab is displayed below, providing the capability to:

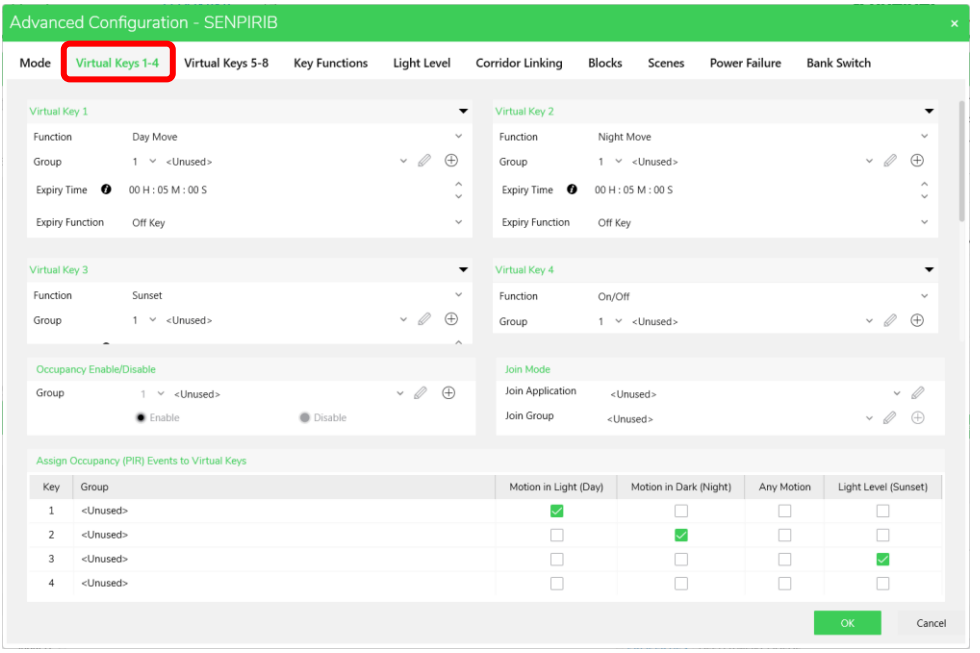
- Quickly program the **Mode** of the sensor, selecting from:
    - Presence Detection with Light Level Target
    - Presence Detection
    - Sunset Switch
- Set the Group Address & Expiry Timer
- Set the Light Level Target & Margin
- Configure the Light Level Maintenance functionality
- Configure the Occupancy Enable/Disable functionality (if applicable)

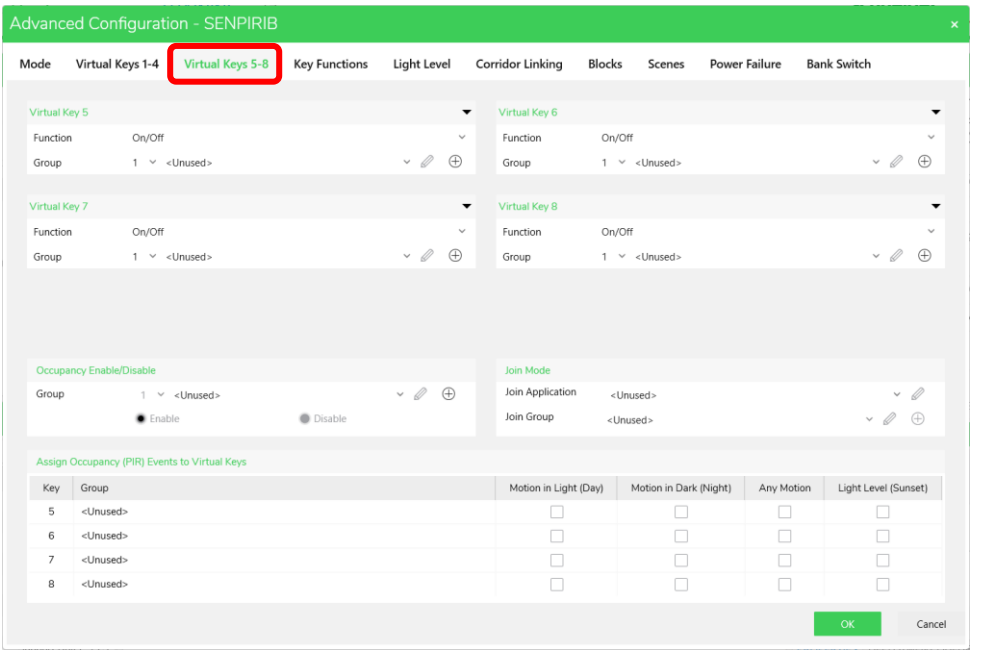


Advanced Configuration: Virtual Keys

In C-Bus Commission, a sensor's virtual keys are separated into **2 dedicated tabs**:

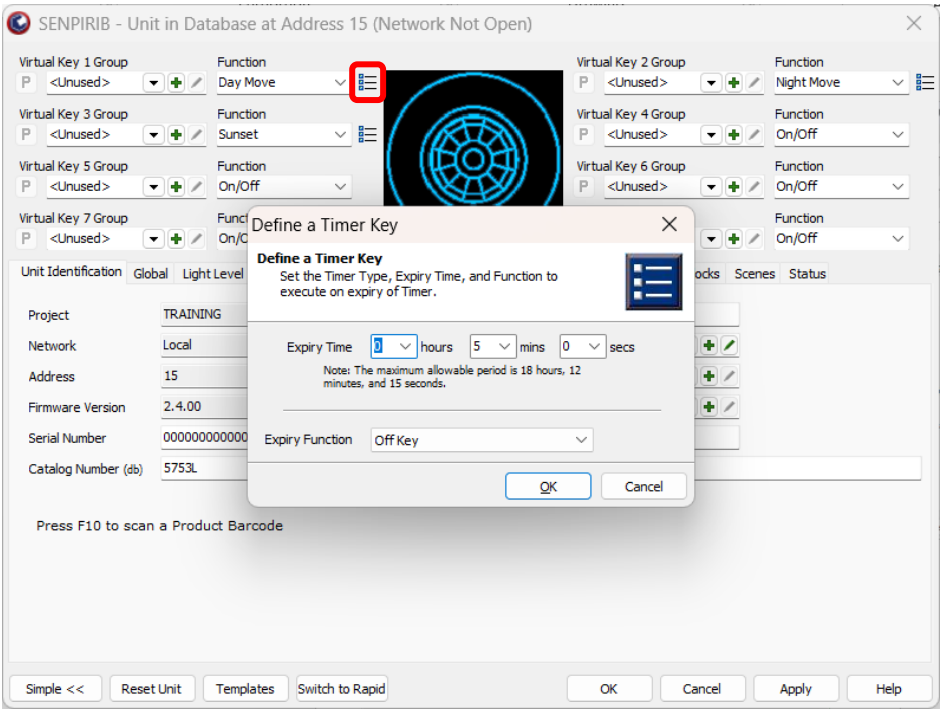
- Virtual Keys 1 - 4
- Virtual Keys 5 - 8



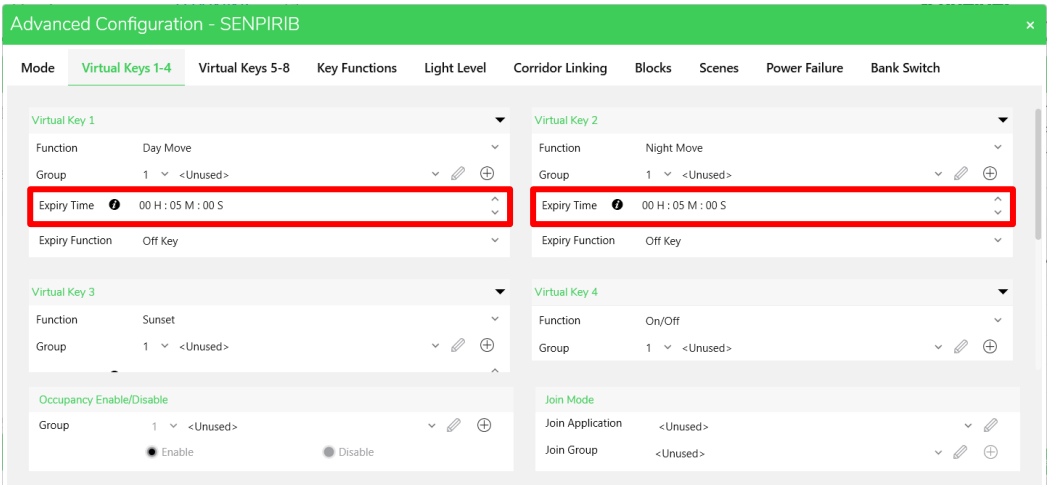


Advanced Configuration: Virtual Keys

In C-Bus Toolkit, a C-Bus sensor's internal timer is accessed by clicking on a Virtual Key's **Function details button**:

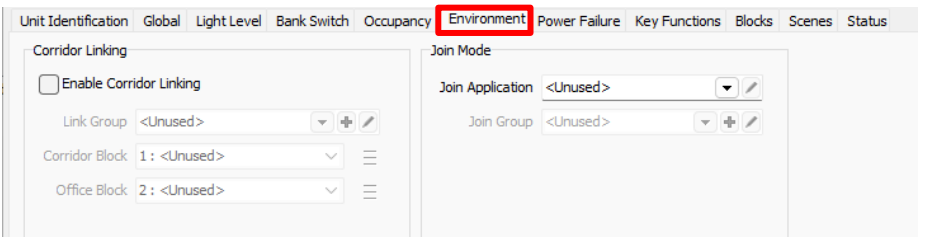


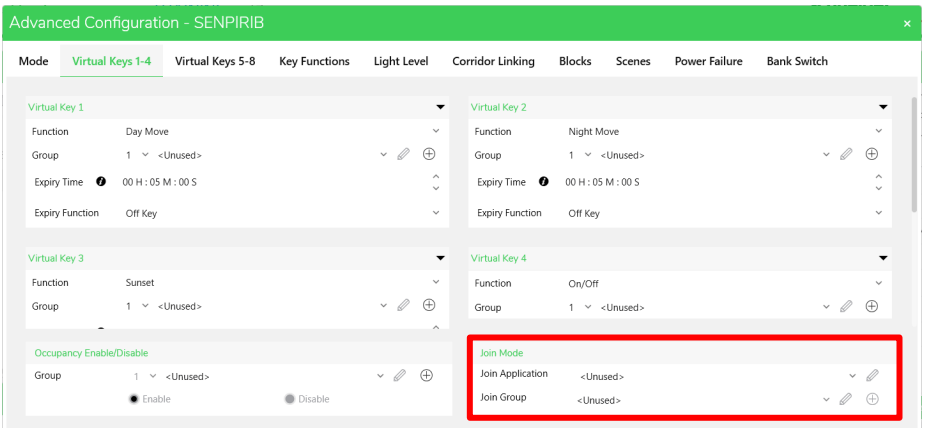
In C-Bus Commission, each Virtual Key has a dedicated parameter for the **internal timer**:

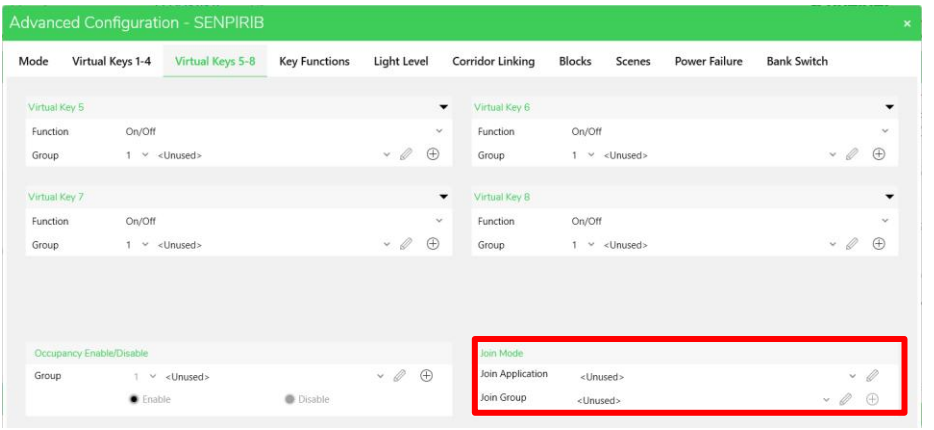


Advanced Configuration: Join Mode

In C-Bus Toolkit, the different features of the C-Bus sensors were represented as individual tabs, such as **Blocks**, **Key Functions**. These features are presented as individual tabs in the **Advanced Configuration** dialog box in C-Bus Commission; potentially, under a different name. In C-Bus Toolkit, **Join Mode** is located under a C-Bus sensor's **Environment tab**; however, in C-Bus Commission, **Join Mode** is available as a dedicated field repeated across the **Virtual Keys 1 – 4** & **Virtual Keys 5 – 8** tabs:

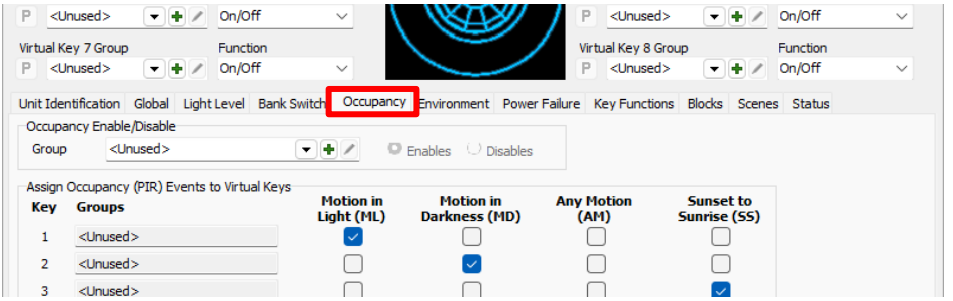


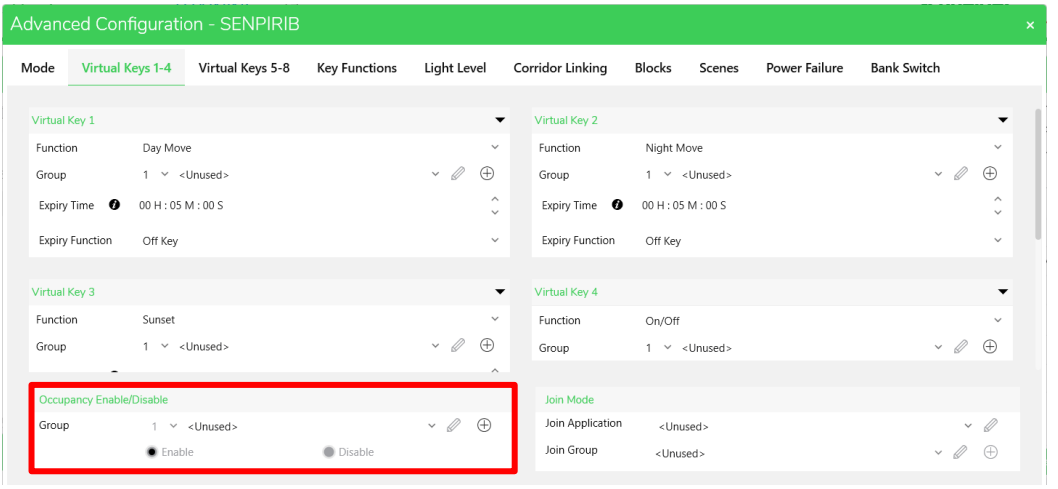


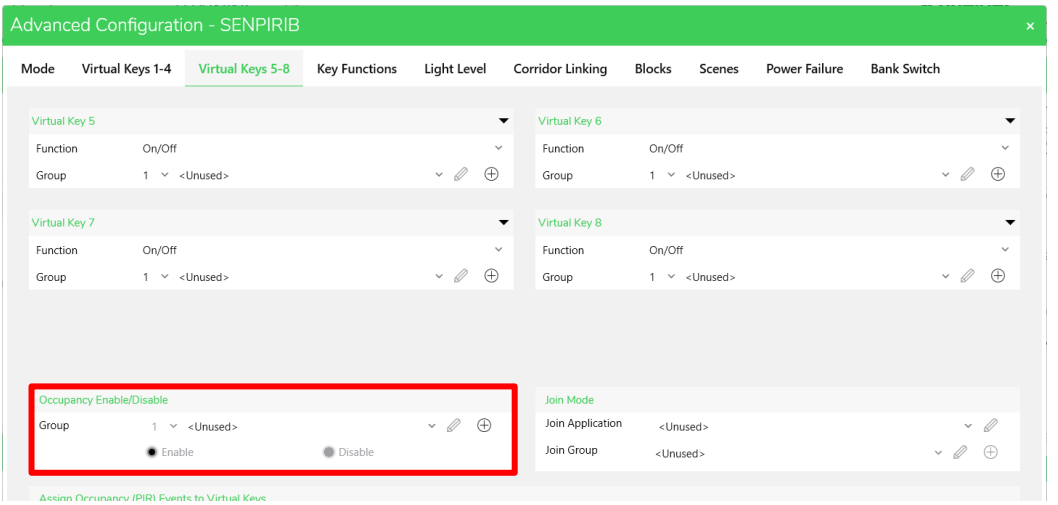


Advanced Configuration: Occupancy

In C-Bus Toolkit **Occupancy Enable/Disable** is located under a C-Bus sensor's **Occupancy tab**; however, in C-Bus Commission it is available as a dedicated field repeated across the **Virtual Keys 1 – 4** & **Virtual Keys 5 – 8** tabs:

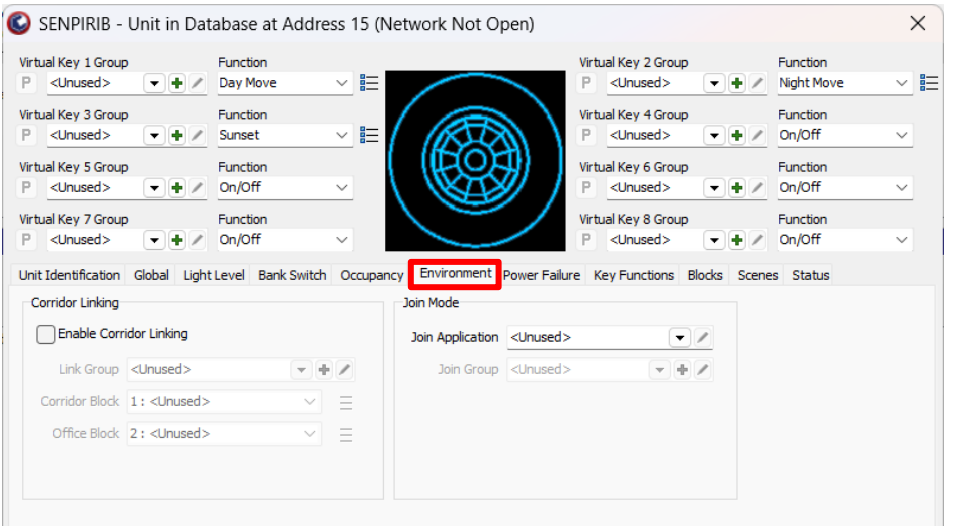


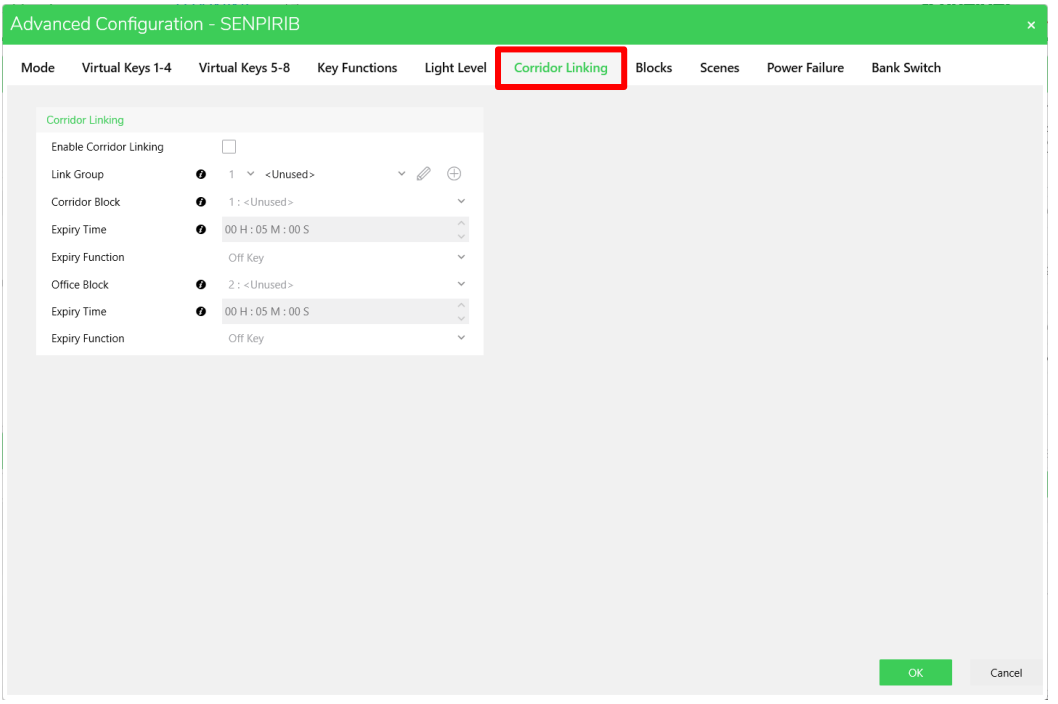




Advanced Configuration: Corridor Linking

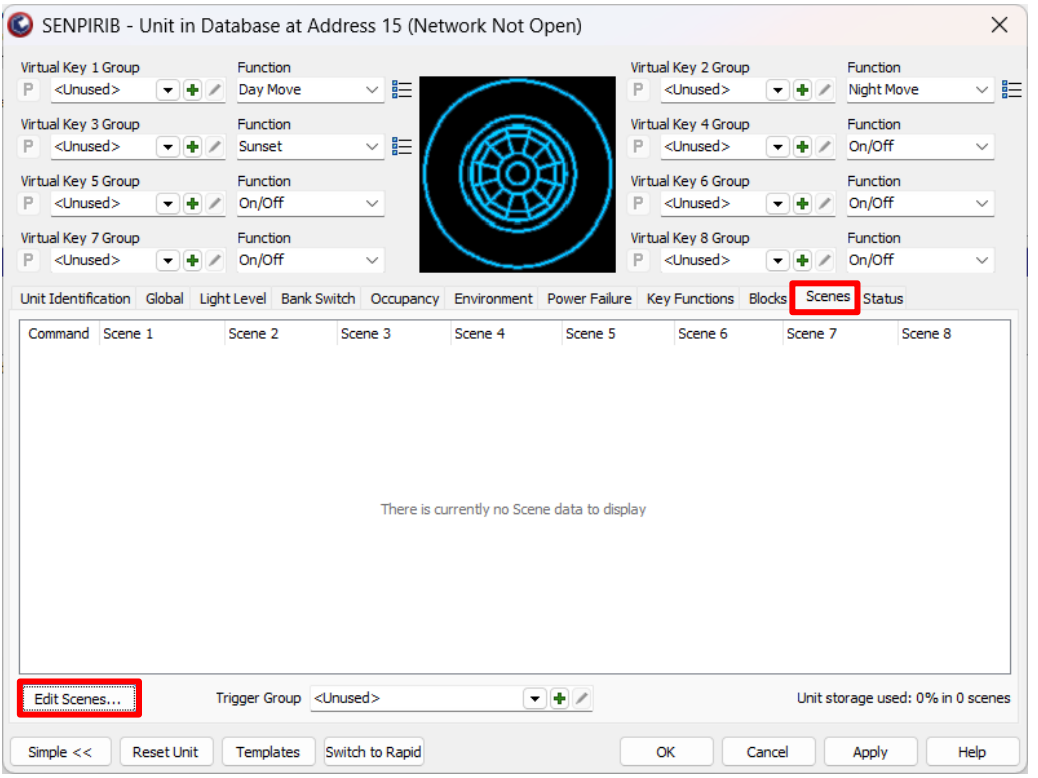
Like **Join Mode**, **Corridor Linking** is located under a C-Bus sensor's **Environment tab** in C-Bus Toolkit; however, in C-Bus Commission, **Corridor Linking** has a dedicated tab in the **Advanced Configuration** dialog box:

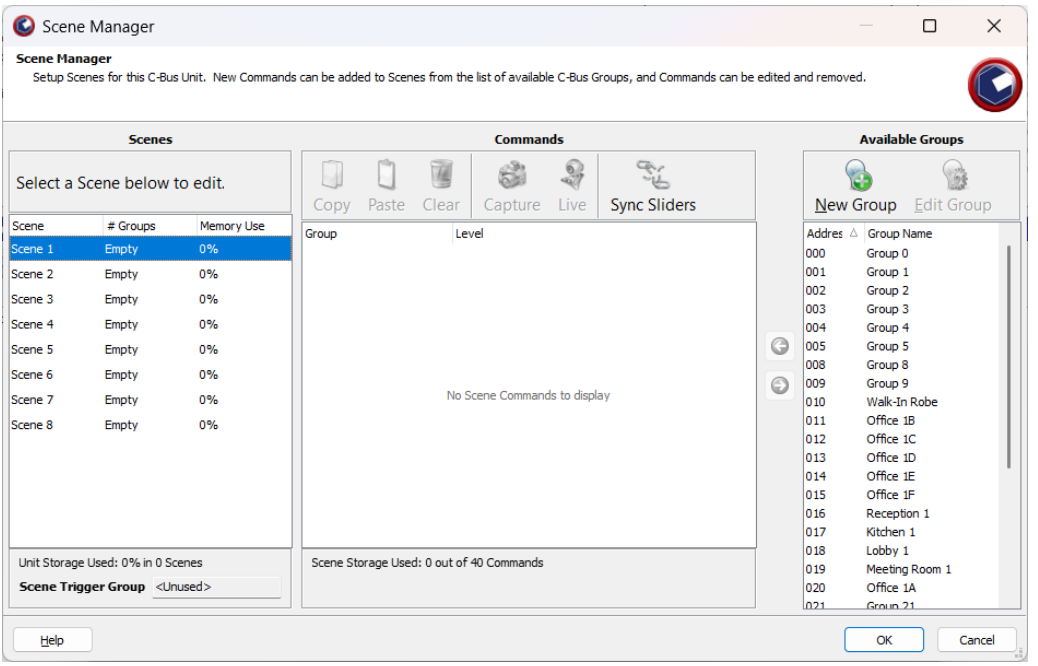




Scene Manager

In C-Bus Toolkit, the C-Bus sensors support a **Scene Manager**, accessible via the **Scenes** tab:

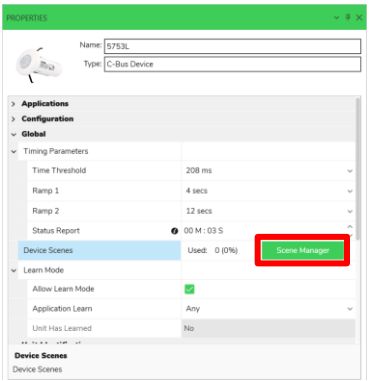


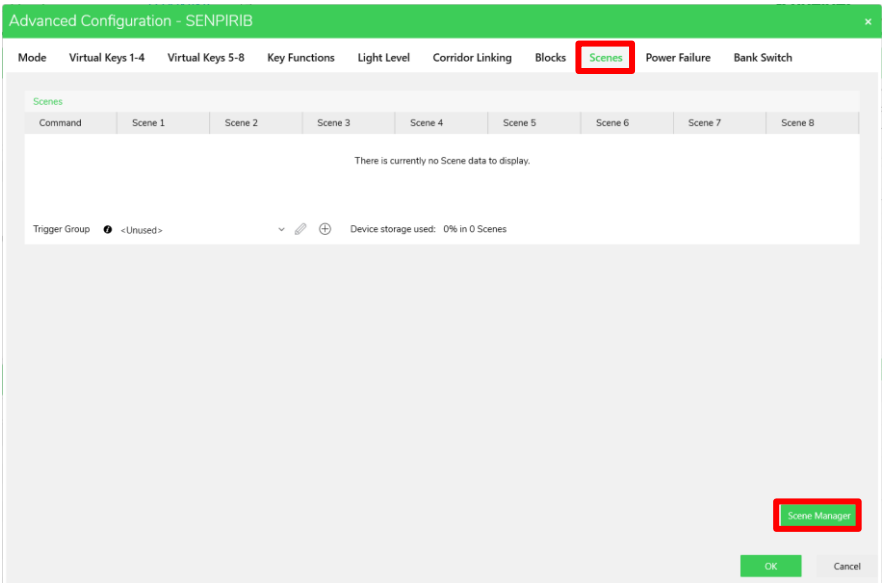


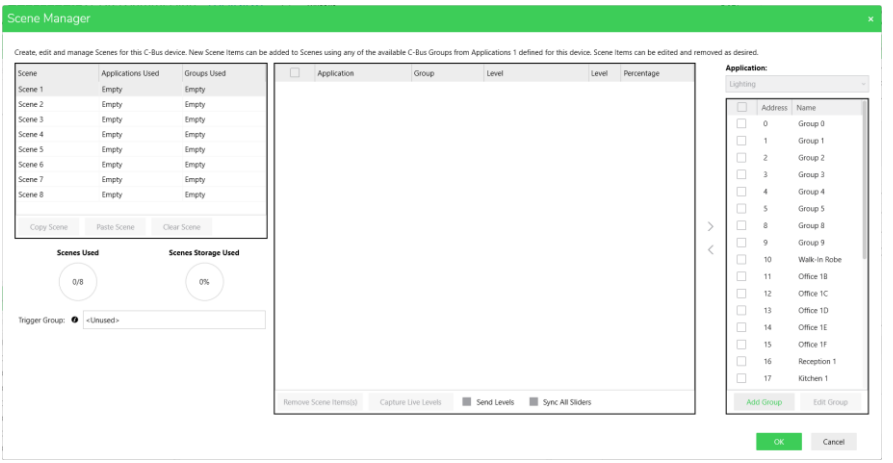
Scene Manager

In C-Bus Commission, the **Scene Manager** is accessible by clicking **Scene Manager**, either via:

- The **Device Scenes** parameter under the **Global category**
- The **Scenes** tab in the **Advanced Configuration** dialog box

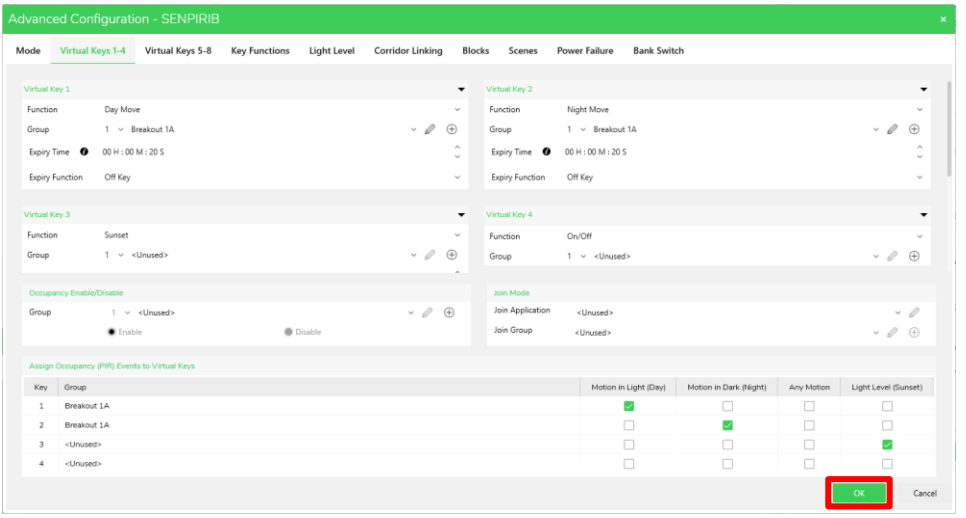




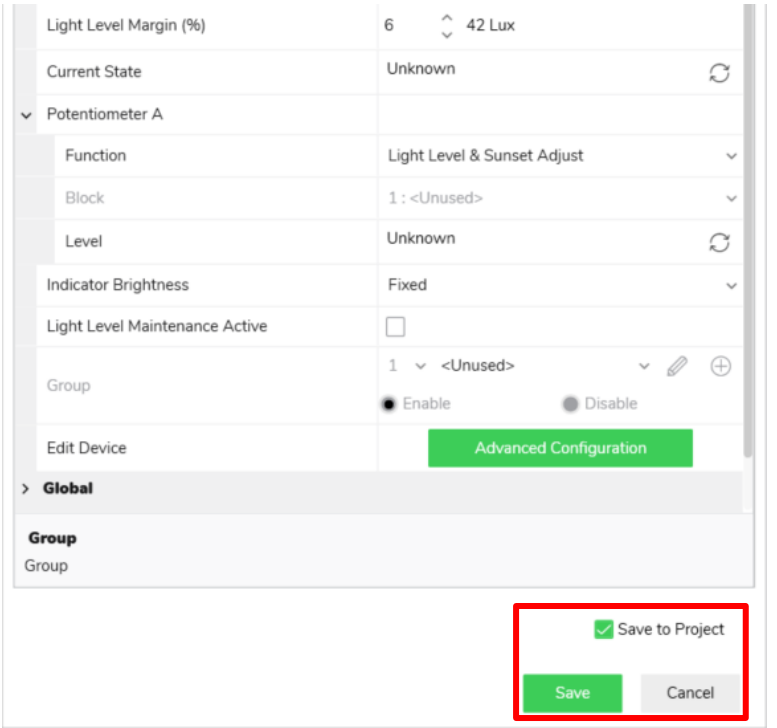


Saving changes

Clicking OK in the Advanced Configuration dialog box will save the current data to the Properties window configuration:



The existing behaviour to click Save at the bottom of the Properties window is still required to save to the project and/or deploy to the network:



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