Get Wired with C-Bus

SpaceLogic C-Bus Commission



C-Bus DALI-2 Commissioning Quick Start Guide

v2.0 February 2026

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Aim of this Document

The aim of this document is to highlight recommended steps & tips on Navigating SpaceLogic C-Bus Commission to:

- Find DALI lines from a SpaceLogic C-Bus DALI-2 Gateway
- Map C-Bus group addresses for Broadcasting on a DALI line
- Map C-Bus group address to DALI Groups on a line
- Help ensure C-Bus properties (such as mapped C-Bus group addresses) are accurately read & displayed

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

- The relationship between C-Bus Toolkit, C-Bus Commission & C-Gate3
- How to create addresses in both software applications
- How to create & open a project in both software applications
- How to open & scan a C-Bus network in both software applications
- The fundamental concepts of how DALI operates & its associated terminology, this includes but is not limited to:
    - ECG
    - DALI Group
    - Short Address
    - DALI Scene

The following table highlights key changes to this document based on updates to software:

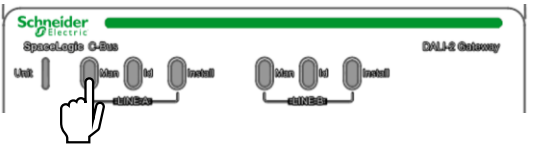
Version	Date	Summary of change/s
2.0	February 2026	Added topics on: • Editing of multiple DALI devices simultaneously • Toggling & Flashing a DALI Line On/Off or Min/Max
1.0	December 2025	N/A

C-Bus DALI-2 Commissioning

The following steps & tips will guide you on commissioning DALI ECG's that are confirmed to have been correctly installed on a SpaceLogic C-Bus DALI-2 Gateway as part of a solution that has C-Bus front end controls.

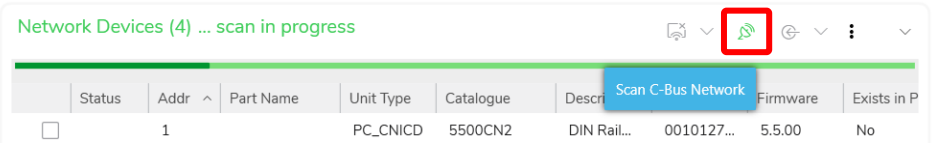
Step 1

The **Man (Manual) Indicator button** on the front of the gateway for each line can be used to turn all controllable ECG's on that DALI line ON or OFF



Step 2

Open the C-Bus Commission project and open & scan the C-Bus Network.



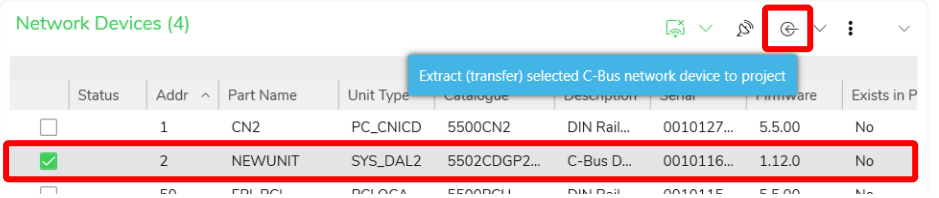
A firmware update available icon may appear next to the gateway:



If required, update the firmware of the gateway

Step 3

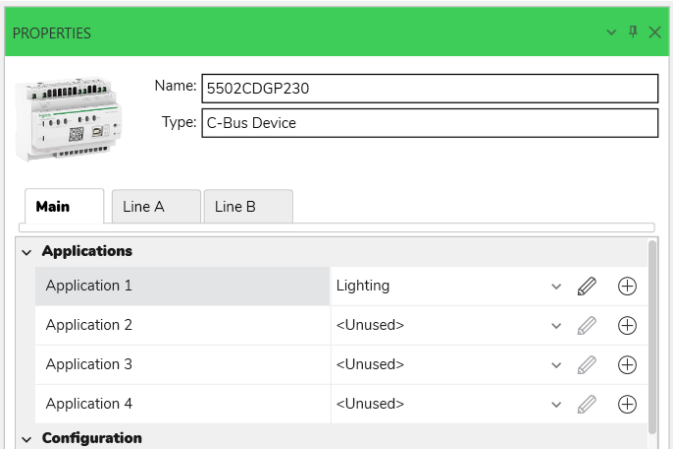
Select & extract the relevant SpaceLogic C-Bus DALI-2 Gateway/s to the project



C-Bus DALI-2 Commissioning

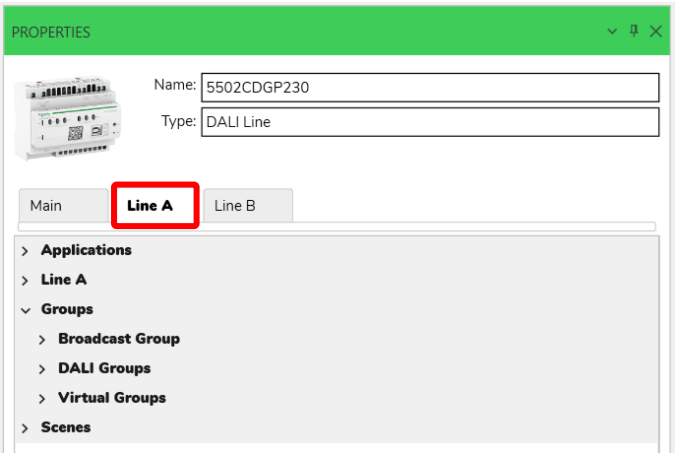
Step 4

A SpaceLogic C-Bus DALI-2 Gateway appears as follows in the **Properties** window:



The gateway can support up to **4 C-Bus Applications**, represented using **Application 1 to Application 4** respectively.

Each DALI line has its own dedicated tab, displaying categories such as Broadcast, DALI Groups, Virtual Groups & Scenes

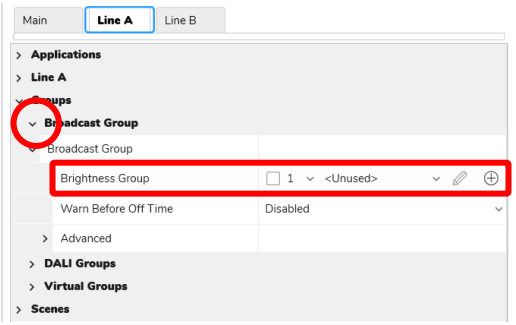


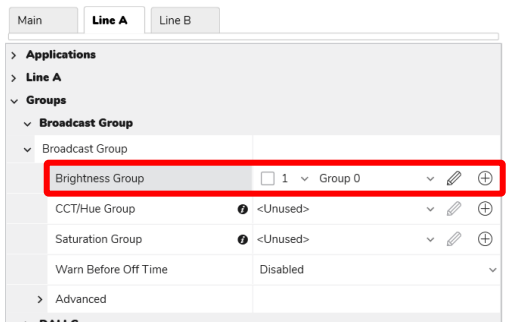
DALI Groups & Virtual Groups for each line can be mapped to C-Bus group addresses by expanding the respective categories and using the provided drop-down arrows.

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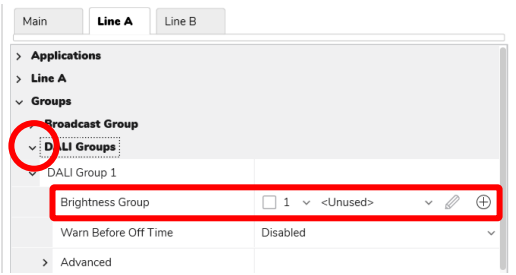
C-Bus DALI-2 Commissioning

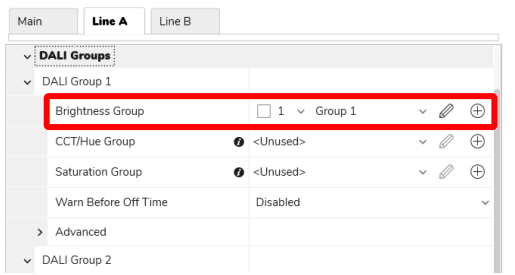
Expanding the **Broadcast Group** category enables you to map a C-Bus group address to the **Broadcast Group** for the respective **DALI Line**





Expanding the **DALI Groups** category enables you to map a C-Bus group address to each respective DALI Group for the respective **DALI Line** via the Brightness Group parameter:



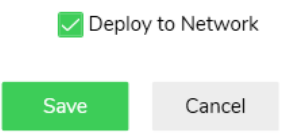


An existing C-Bus group address can be added via the drop-down arrow or a new one can be created via the ⊕ icon.

It is also possible to create a new group by typing the desired group name/tag directly into the property and pressing **Enter**, creating the group at the next available group address.

Step 5

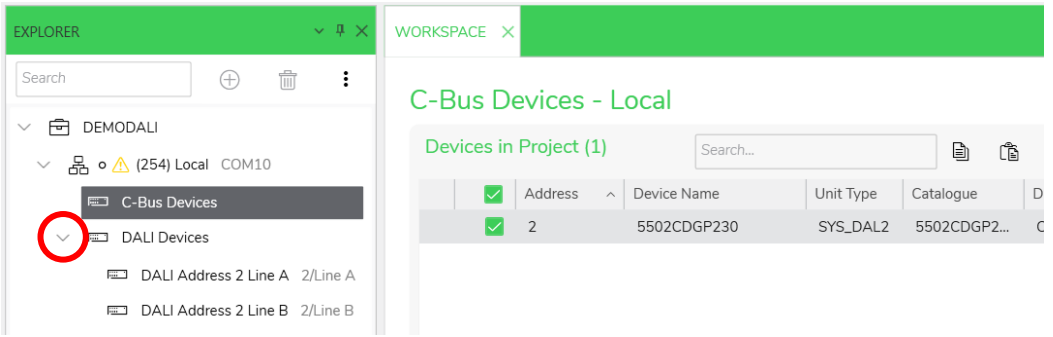
Any changes that are made can be saved to both project and network device using the **Save** button & appropriate checkbox, this is located at the bottom of the properties window:



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C-Bus DALI-2 Commissioning

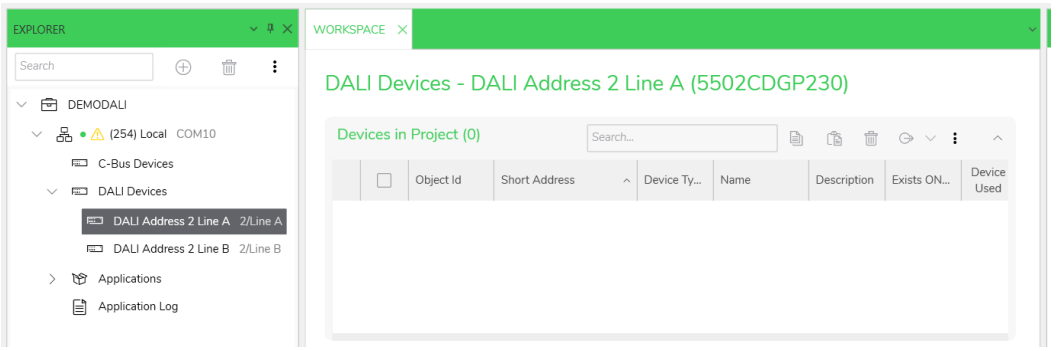
The DALI lines for each gateway in the **project** can be found by expanding **DALI Devices** in the **Explorer window**:



The DALI Lines are referenced by any defined Line Names and the Unit Address of the respective gateway

Step 5

Clicking on a DALI Line will load that respective DALI Line in the **Workspace window**:



In the Workspace for a DALI Line, you can perform a number of different scan operations, such as:

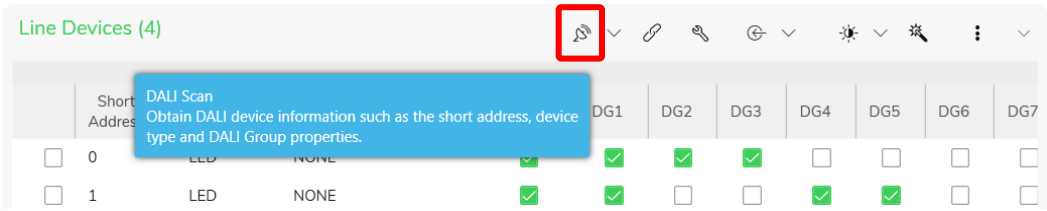
- DALI Scan
- DALI Device Type Scan
- Read DALI Gateway
- Discover Faults

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C-Bus DALI-2 Commissioning

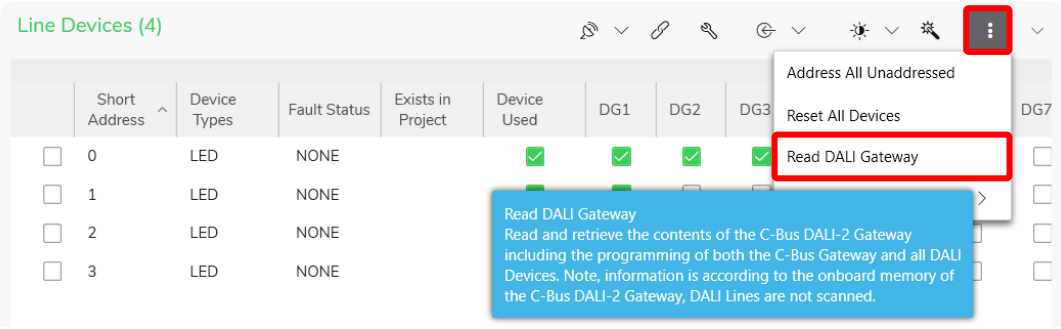
Step 5

Click **DALI Scan** to scan the DALI Line



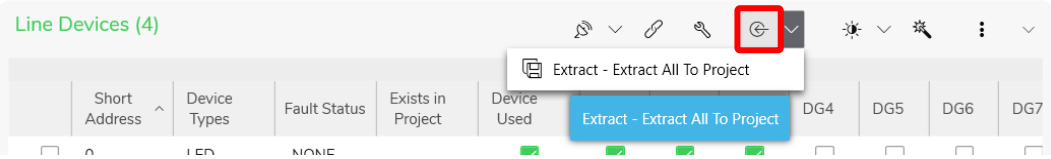
Step 6

Although it is not mandatory when only only commissioning DALI devices, it is recommended that once a DALI Scan is complete that a Read DALI Gateway scan is also performed to also commission the C-Bus DALI-2 Gateway:



A Read DALI Gateway scan can take up several minutes; however, it helps to ensure that all programming properties of the gateway and its connected ECG's are accurately reflected in C-Bus Commission, minimising some steps in the workflow and potentially reduce errors occurring across the entire commissioning journey.

Selected or all devices can be extracted to the project using the Extract icon:

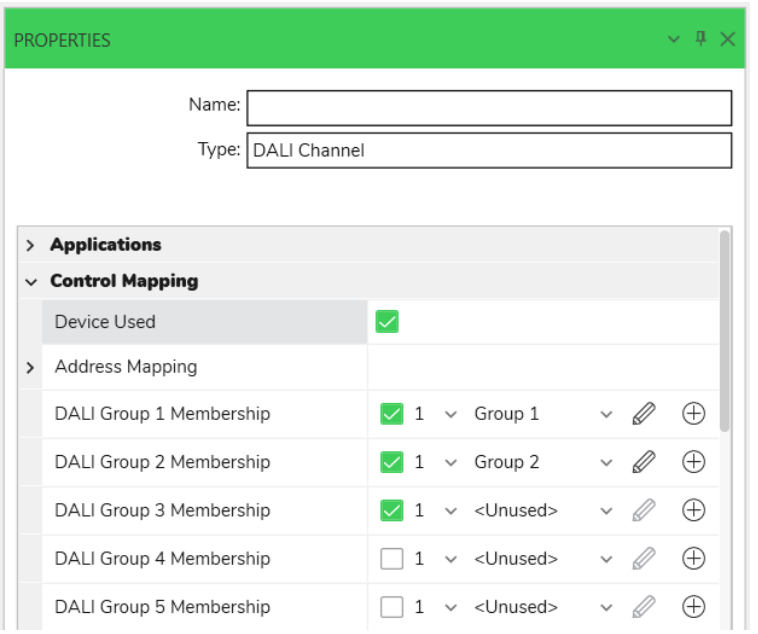


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C-Bus DALI-2 Commissioning

Step 7

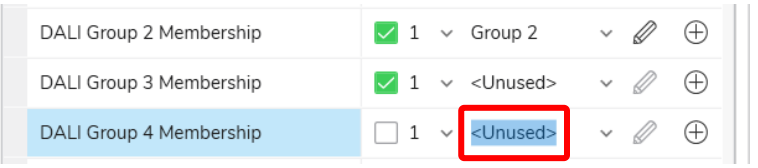
A DALI ECG appears as follows in the **Properties** window:



Under Control Mapping you can see the direct C-Bus Group Address mapped (Address Mapping), DALI Group Memberships, or assign new DALI Group Memberships and map C-Bus group addresses accordingly. Further categories are displayed containing other DALI properties.

An existing C-Bus group address can be added via the drop-down arrow or a new one can be created via the ⊕ icon.

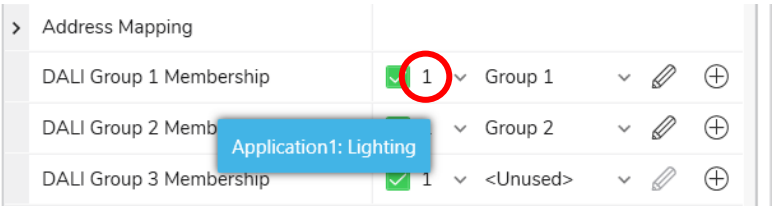
It is also possible to create a new group by typing the desired group name/tag directly into the property and pressing **Enter**, creating the group at the next available group address.



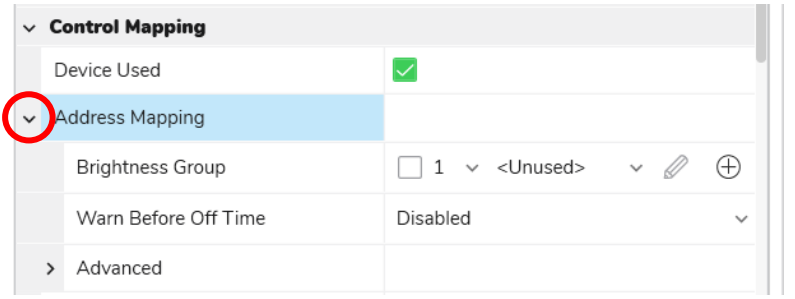
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C-Bus DALI-2 Commissioning

The **Number** next to the DALI Group Membership checkbox highlights which **Application (from Application 1 to 4)** is used for this specific DALI Group's C-Bus mapping

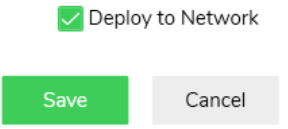


The DALI device can be directly mapped to a C-Bus Group address, by expanding Adding Mapping and using the Brightness Group parameter:



Step 8

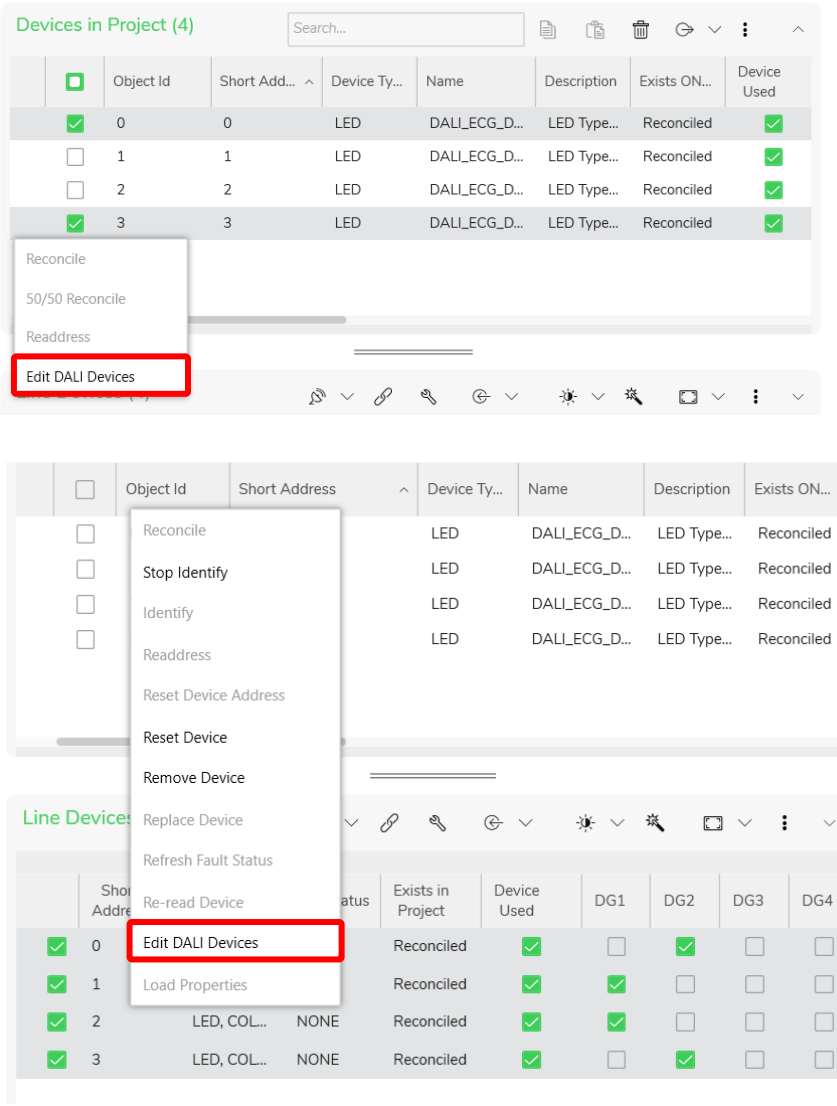
Any changes that are made can be saved to both project and network devices using the **Save** button & appropriate checkbox, this is located at the bottom of the properties window:



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C-Bus DALI-2 Commissioning

A single or multiple live or project DALI device/s can be edited by **selecting** the device/s, **right clicking** and selecting **Edit DALI Devices**:



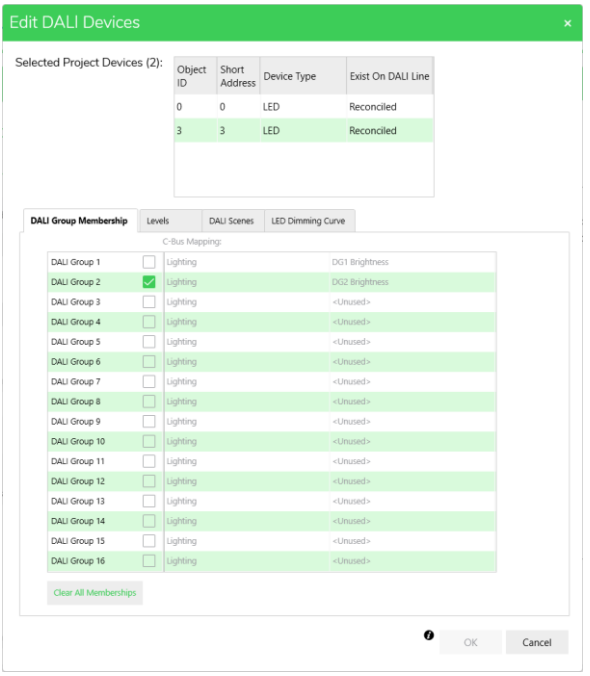
Multiple devices can be selected and viewed in this window

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C-Bus DALI-2 Commissioning

Clicking **Edit DALI Devices** displays the **Edit DALI Devices** dialog box:

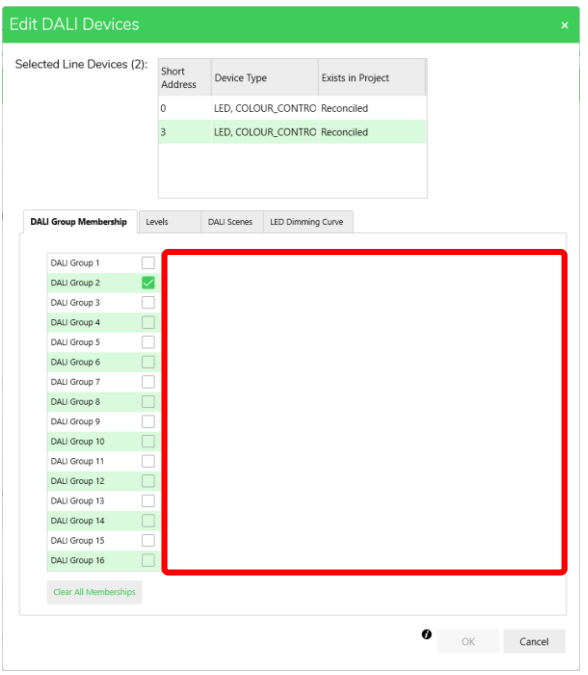
Edit DALI Devices for Devices in Project



The Edit DALI Devices dialog box displays all **common** DALI configurable properties for all selected DALI devices:

- DALI Group Membership
- Levels
- DALI Scenes
- LED Dimming Curve

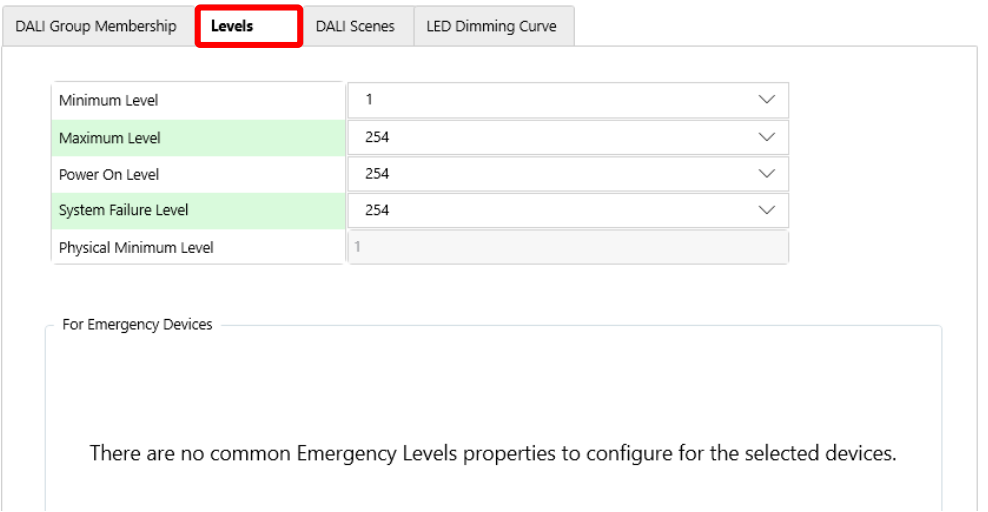
Edit DALI Devices for Line Devices

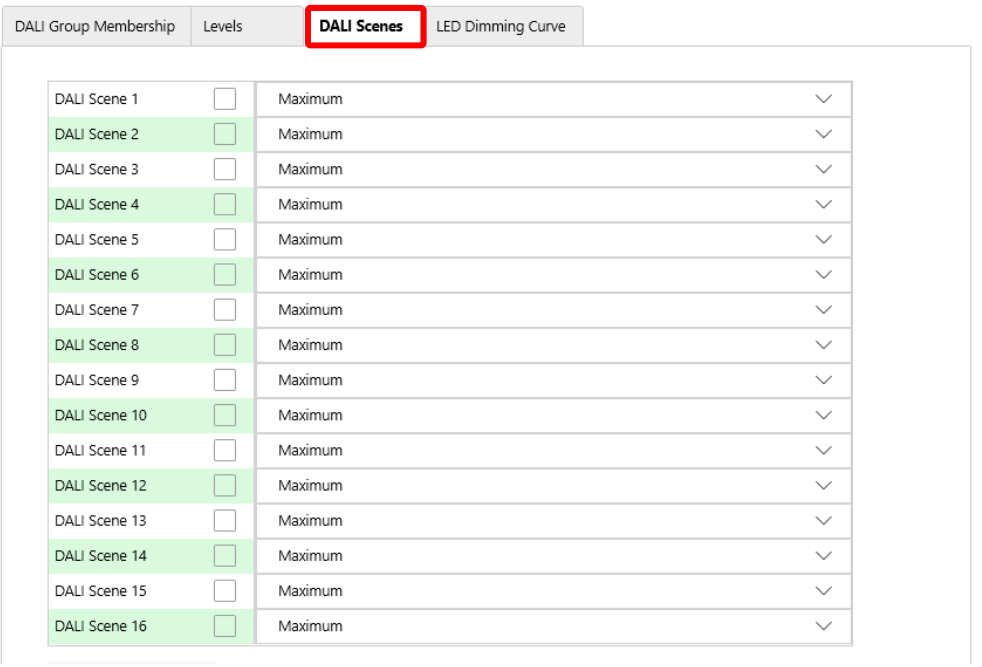


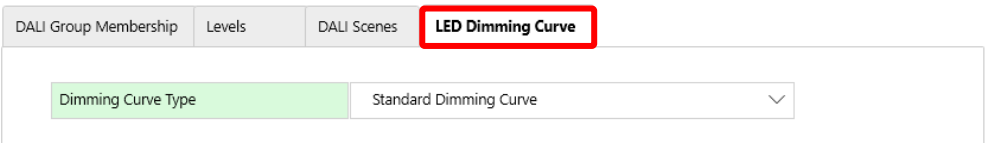
For Line devices, C-Bus Mapping for each DALI Group is not displayed unless a **Read DALI Gateway** scan has been performed. This is explained in greater detail later in this document.

C-Bus DALI-2 Commissioning

The **Edit DALI Devices** dialog box also provides the capability to adjust the **Levels**, **DALI Scenes** and **LED Dimming Curve** of the selected DALI Device/s:





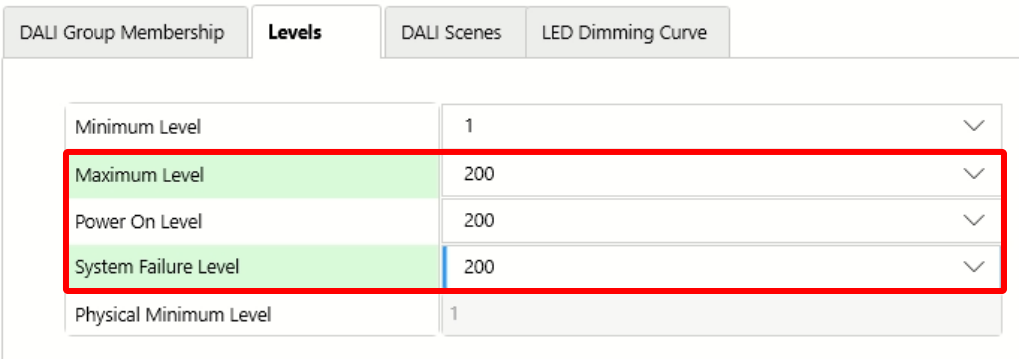


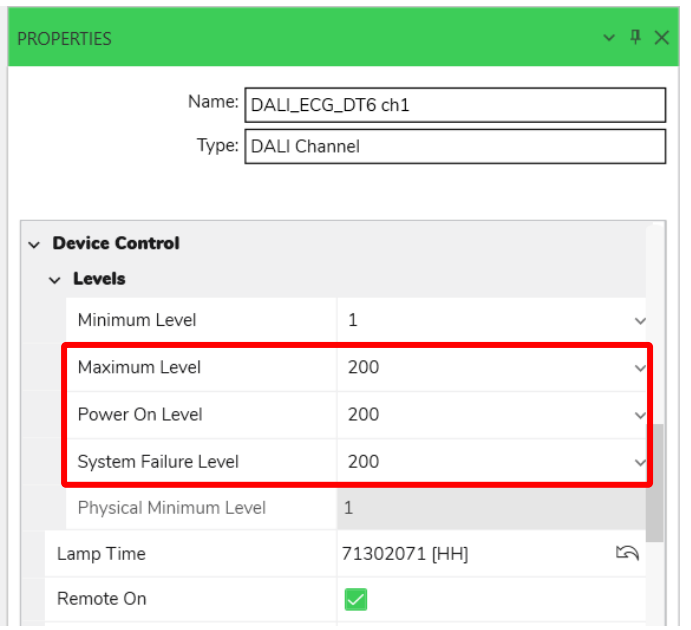
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C-Bus DALI-2 Commissioning

Changes made to the selected DALI Devices in the **Edit DALI Devices** dialog box will be reflected when each DALI device is loaded in the **Properties window**.

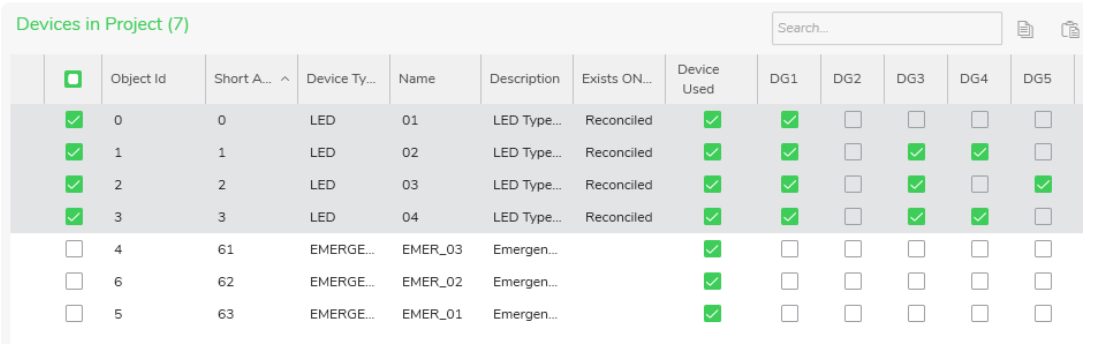
Consider the Maximum level, Power On level, and System Failure level for the selected DALI Devices is set to 200, with the changes saved in the Edit DALI Devices dialog box. This configuration will be reflected when each DALI Devices loaded into the **Properties window**:



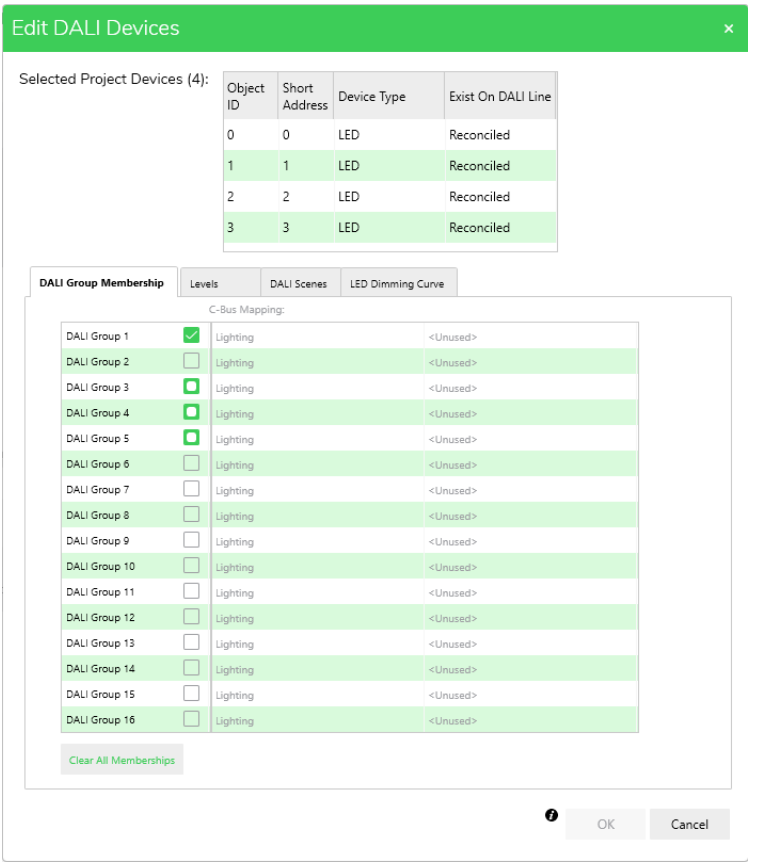


C-Bus DALI-2 Commissioning

It was highlighted earlier that the **Edit DALI Devices** dialog box displays all common DALI configurable properties for all selected DALI devices. Consider a scenario where multiple DALI devices that have different DALI Group Memberships are selected:



The **Edit DALI Devices** dialog box for these **4 selected devices** are shown below:



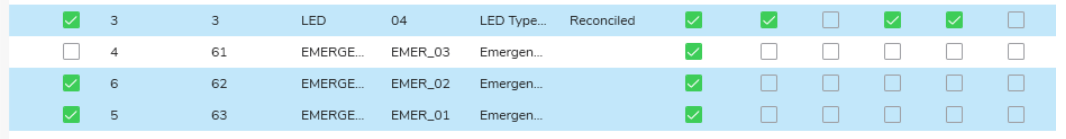
C-Bus DALI-2 Commissioning

The **DALI Group Memberships** for these selected devices is presented below:

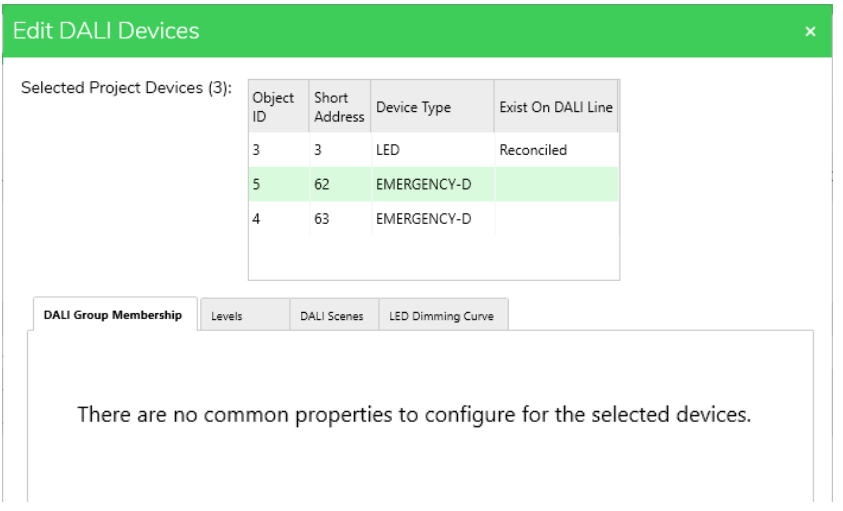


Shared **DALI Group Membership** is highlighted by a checkbox tick, ☑,
Unshared **DALI Group Membership** is denoted by a bordered checkbox, ☐

Consider if an **LED** and **2 × Emergency Type D Devices** are selected:



When these selected devices are displayed in the **Edit DALI Devices** dialog box, a **no common properties** message is displayed;



Since Emergency Type D devices do not support DALI Group Membership, this is not a common property with the selected LED

C-Bus DALI-2 Commissioning

The following is an overview on some of the key scans that are available in SpaceLogic C-Bus Commission:

DALI Scan

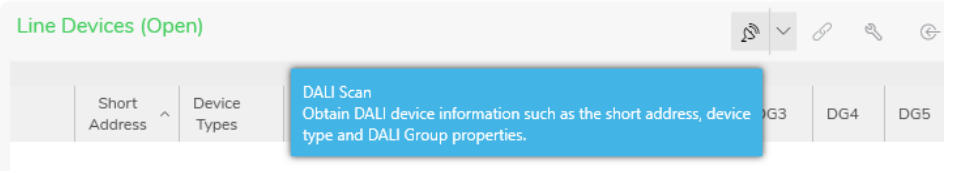
A DALI Scan is the default scan performed for a DALI Line to discover devices on the DALI Line and address any unaddressed devices, while also identifying any duplicate, missing and broken DALI devices. This scan also includes the scan of extended DALI information; namely, the DALI Group Membership information, with resulting information for each device displayed in the Line Devices section.

Objective

Continue working with DALI devices to configure DALI Group Memberships, in addition to sorting out the DALI Line (address and/or readdress devices).

Main Use Cases

- Configure DALI Group Memberships of DALI devices on the DALI Line.
- Discover DALI devices.
- Sort out the DALI Line (address and/or readdress devices).



DALI Device Type Scan

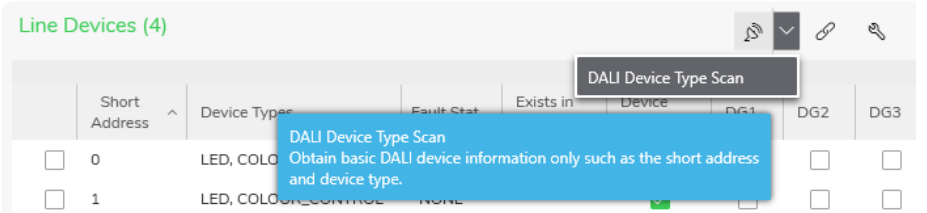
A DALI Device Type scan is a basic DALI Line scan to discover devices on the DALI Line and address any unaddressed devices, while also identifying any duplicate, missing and broken DALI devices. From this scan, information for each device in the Line Devices section is displayed except for DALI Group Membership information.

Objective

Get started with DALI devices and sort out a DALI Line where extended DALI information is not required/needed for the task at hand.

Main Use Cases

1) Discover DALI devices.
2) Sort out the DALI Line (address and/or readdress devices).



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C-Bus DALI-2 Commissioning

The following is an overview on some of the key scans that are available in SpaceLogic C-Bus Commission:

Read DALI Gateway

A Read DALI Gateway scan retrieves the information stored in the C-Bus DALI-2 Gateway live on the network, including the C-Bus DALI-2 Gateway programming and the programming of all DALI Devices (according to the C-Bus DALI-2 Gateway).

Objective

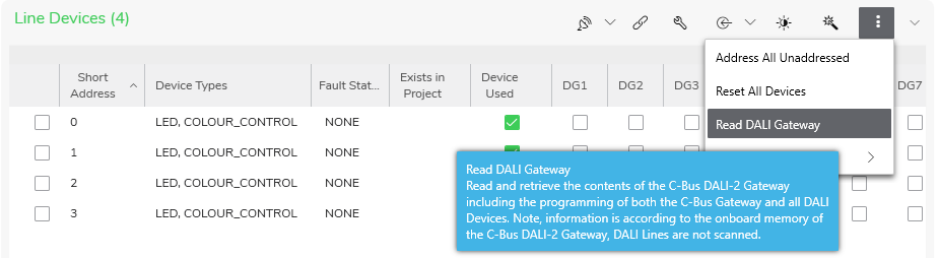
The main objective of a Read DALI Gateway scan is to **rebuild a project from a live/existing C-Bus DALI-2 Gateway on the network which is already programmed/configured (and operational) where a C-Bus DALI-2 Gateway does not exist in the project**. This scan shall extract all the information within the C-Bus DALI-2 Gateway and include all the information presently known about the DALI devices on the lines of the Gateway. The Read DALI Gateway scan does not perform any new device discovery, nor does it discover or resolve faults, and does not readdress any unaddressed DALI devices.

Main Use Cases

1) The installer has lost their project and needs to recover the entire C-Bus DALI-2 Gateway programming including the programming of all DALI Devices (according to the C-Bus DALI-2 Gateway).
2) The installer wishes to transfer the live C-Bus DALI-2 Gateway back from live network to the project to ensure their project is up to date and current.

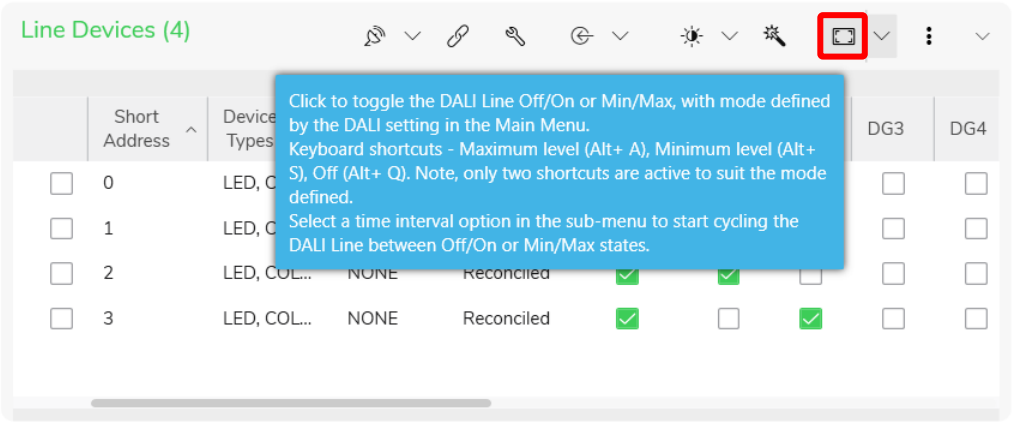
Note:

- Since SLCC since v2.9.0, a Read DALI Gateway scan is no longer mandatory when working with live DALI devices and C-Bus DALI-2 Gateway. Performing certain software operations, such as Loading a DALI device into the Property Editor or Extracting a single DALI device to the project is now possible without the dependency on a Read DALI Gateway scan.
- A DALI Scan and/or a DALI Device Type Scan is a required prerequisite when working "live" to discover new devices, discover faults and readdress any unaddressed devices (which updates the C-Bus DALI-2 Gateway).
- Since SLCC v2.9.0, the tooltips for each of the scan options have been enhanced to better describe the scan function.



C-Bus DALI-2 Commissioning

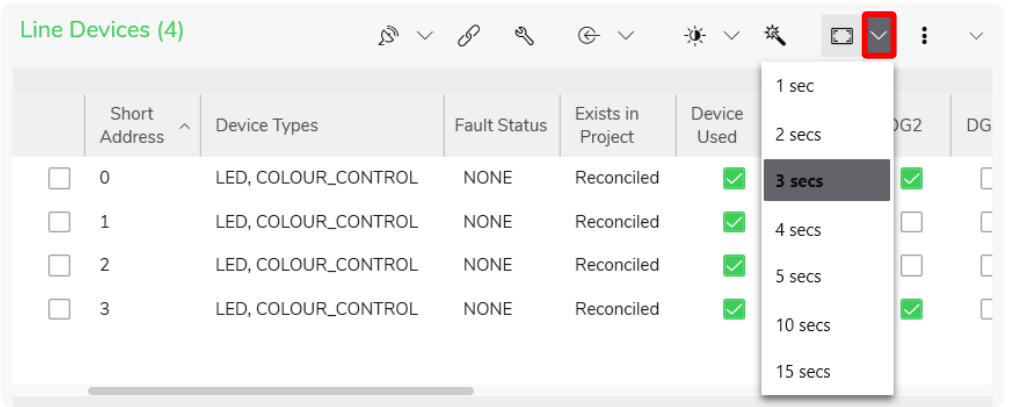
In SpaceLogic C-Bus Commission after a DALI line has been scanned, you have the capability to **Toggle** or **Flash** the **DALI Line** to **On** at **Min** or **Max**:



The **Toggle icon** will change to green when the DALI Line is toggled On:



The drop-down arrow next to the Toggle icon displays a list that allows you to select a time interval to start cycling the DALI Line between Off and On:



C-Bus DALI-2 Commissioning

The points below are additional recommended tips that can be used to help ensure a commissioning workflow with reduced interruptions & inaccuracy:

- If the DALI Line is closed, it is recommended to perform a Read DALI Gateway scan after the DALI line is re-opened & scanned.

- If required, ensure that the SpaceLogic C-Bus DALI-2 Gateway firmware is up to date.

Additional resources around C-Bus & DALI-2 can be found using the links below:

- Video – C-Bus DALI-2: DALI Line Scan & Read DALI Gateway
- Video – C-Bus DALI-2: Gateway C-Bus Group Mapping
- Video – C-Bus DALL-2: Discover Faults
- Video – C-Bus DALI-2: Colour Temperature Control
- Video – C-Bus DALI-2: RGB & RGBW Control
- Quick start guide – Correlated Colour Temperature
- Quick start guide – Hue & Saturation Guide

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