SpaceLogic C-Bus Commission Software

Controller Sync

v1.0 April 2025

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Aim of this Document

The aim of this document is to highlight the synchronisation process between the SpaceLogic C-Bus Commission software application and the:

- SpaceLogic C-Bus Automation Controller (5500NAC2)
- SpaceLogic C-Bus Application Controller (5500AC2)
- C-Bus Network Automation Controller (5500NAC)
- Wiser for C-Bus Automation Controller (5500SHAC)

The contents of this document have been developed using:

- C-Bus Toolkit v1.18.1
- SpaceLogic C-Bus Commission v2.9.0

The contents of this document are as follows:

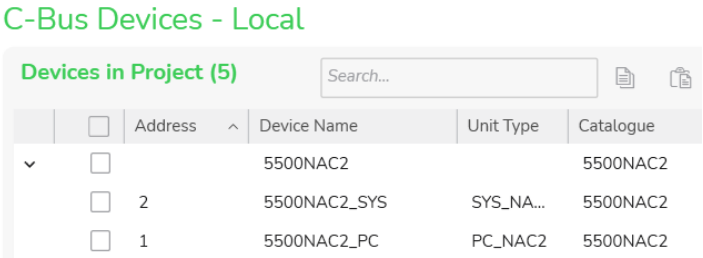
1. Controllers in SpaceLogic C-Bus Commission
2. Suggested Workflow
3. Controller Sync
4. Example C-Bus Solution: Transfer
5. Example C-Bus Solution: Receive
6. Example C-Bus Solution: Conflicts

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Controllers in SpaceLogic C-Bus Commission

When a controller unit is added to **Devices in Project** from the **Library**, three layers of the controller are displayed:

- IP Layer
- PC
- SYS



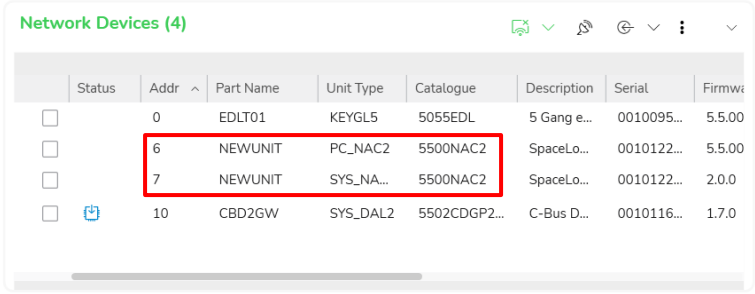
The Automation and Application Controllers support **two C-Bus interfaces**, appearing as two devices, PC & SYS, both in C-Bus Toolkit and SpaceLogic C-Bus Commission. One interface is used by the C-Bus Network Interface, and the other by the controller itself:

- PC → used by C-Bus Network Interface
- SYS → used by Controller

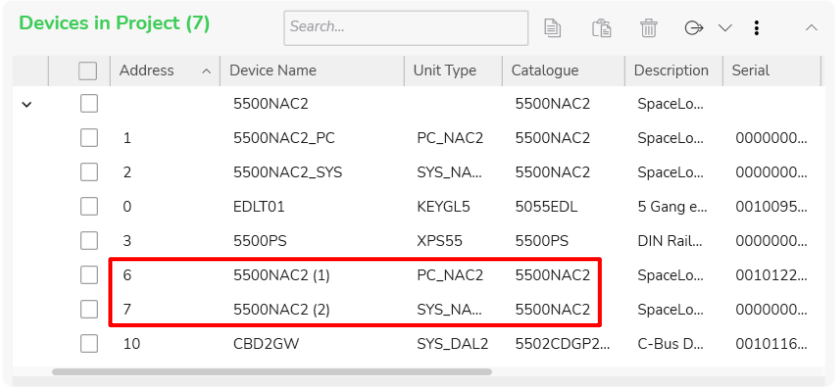
The IP Layer is a **SpaceLogic C-Bus Commission Project** only layer that is primarily used to enter the network communication information of your controller, such as the **Remote Connection Service IP Address**

Controllers in SpaceLogic C-Bus Commission

When scanning a Controller on a live C-Bus Network, it will only appear as **PC & SYS** on **Network Devices**:



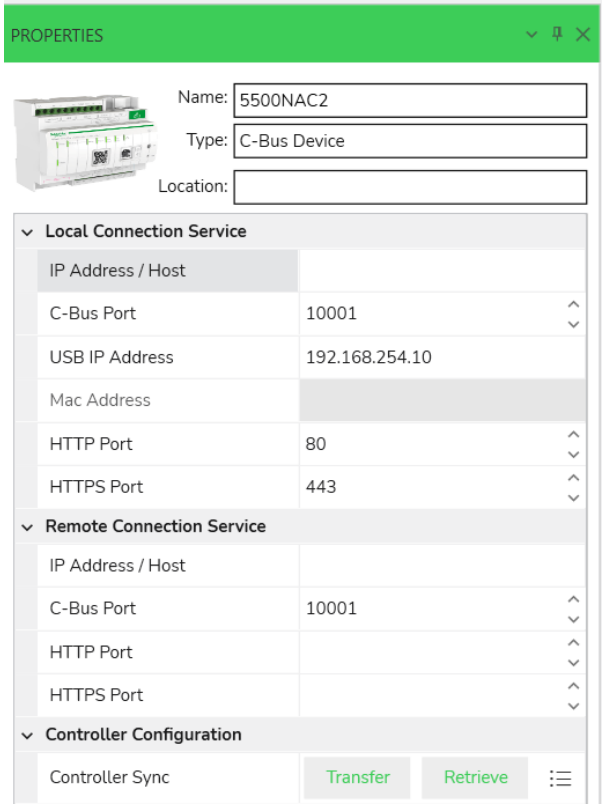
Even **Extracting** from **Network Devices** to **Devices in Project** **does not** create the **IP Layer** (This can only be done by adding a controller from the library):



Controllers in SpaceLogic C-Bus Commission

The properties of each controller layer are as follows:

- The **IP Layer** will not have any address, serial, firmware version or unit type and cannot be readdressed
- The **IP Layer cannot be readdressed**
- When loading the **IP Layer** into the Properties window, the **Deploy to Network** option is disabled
- The **SYS** and **PC Layer** is used to configure, reconcile and deploy to the device
- The **SYS** and **PC Layer** cannot be deleted independently



Controllers in SpaceLogic C-Bus Commission: Suggested Workfow

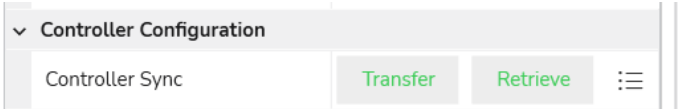
The following is a suggested workflow to help configure the properties of a Controller in a SpaceLogic C-Bus Commission project:

1. Add the appropriate controller from the library to **Devices in Project**, creating the **3 layers**:
   - IP Layer
   - PC Layer
   - SYS Layer
2. Open and Scan the C-Bus Network, the controller will appear only as **2 layers** in the **Network Devices** section**:**
   - PC Layer
   - SYS Layer
3. Change the Unit Address of both the PC and SYS Layer on the live network to match their project device equivalents
4. Extract both the PC and SYS Layers from the live network to the project

Controller Sync

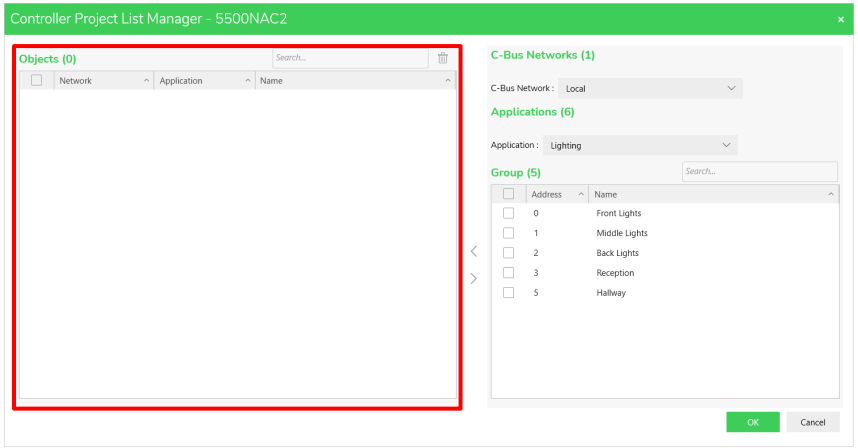
In SpaceLogic C-Bus Commission, the controllers support a feature known as **Controller Sync**, which consists 2 functions:

- **Transfer:** The function is used to push a designated **Object List** from the **project to the controller**
- **Retrieve:** The function is used to pull the data back from the controller and store the **data in the project**



An **Object List** (highlighted below) is the defined list of **Object/s** that:

- Can be **transferred** to an appropriately synced controller
- Have been **received** by an appropriately sync controller



Controller Sync: What is transferred or received?

When **transferring** to the C-Bus Controller, the following content will be sent:

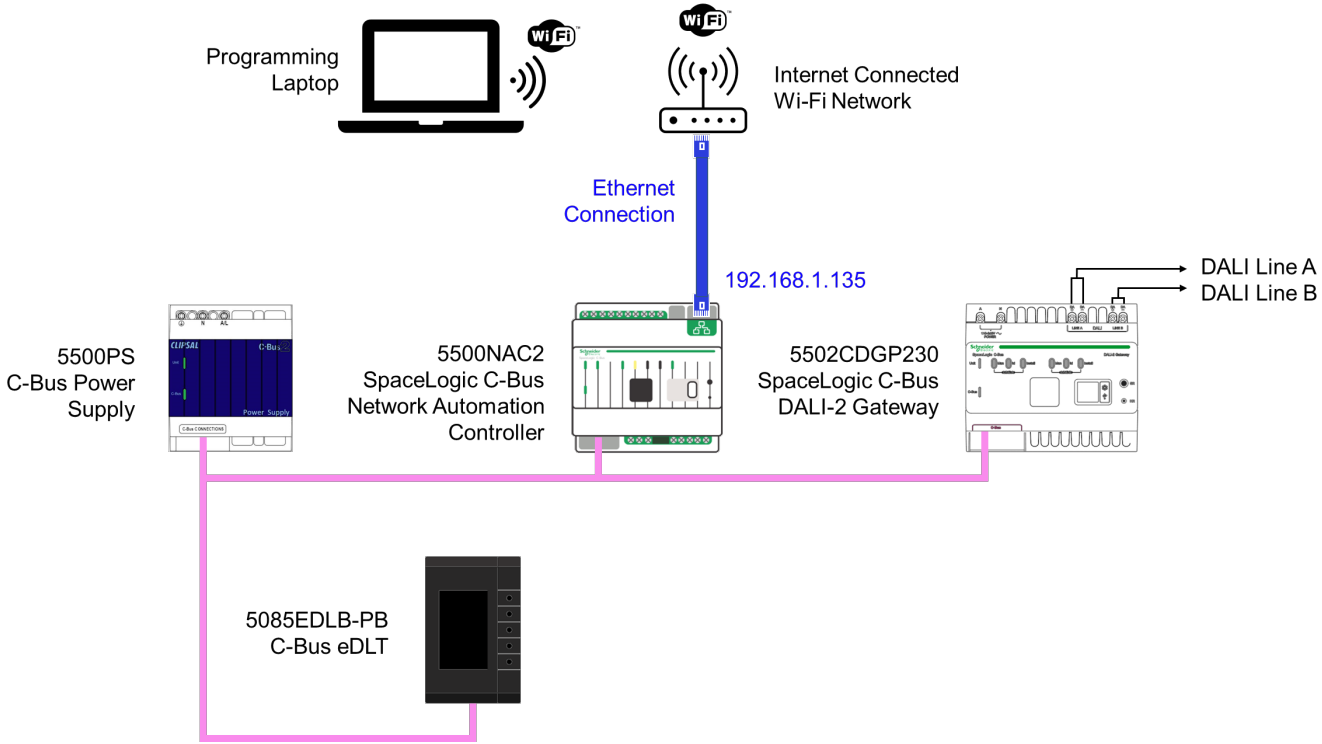
- Object List
- The C-Bus Applications data (Tag Map):
  - Lighting Application
  - Trigger Control Application
  - Enable Application
  - Error Application
  - Emergency & Exit Lighting Application
  - Measurement Application

The scope of contents is the same when **retrieving** from the C-Bus Controller to the project.

* Only missing content is created and existing content updated (Names)

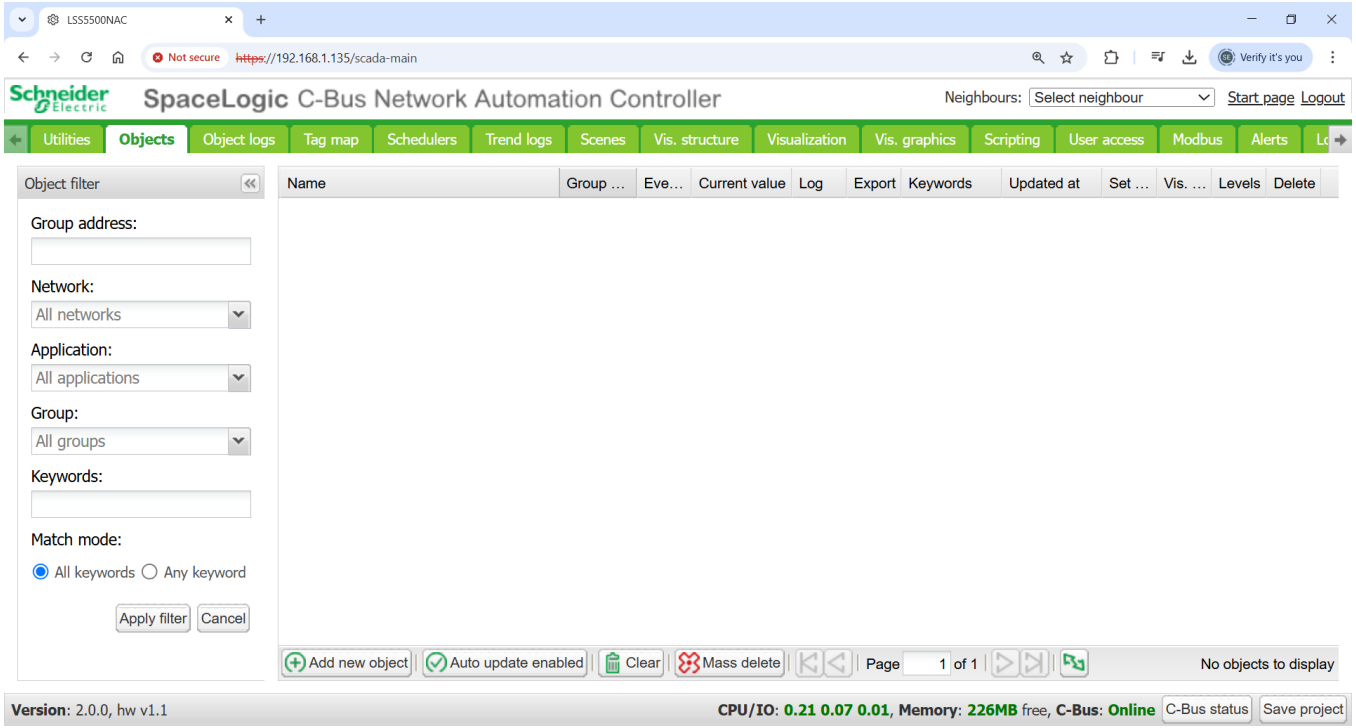
Example C-Bus Solution

The following C-Bus Solution will be used to demonstrate the **Controller Sync** feature:



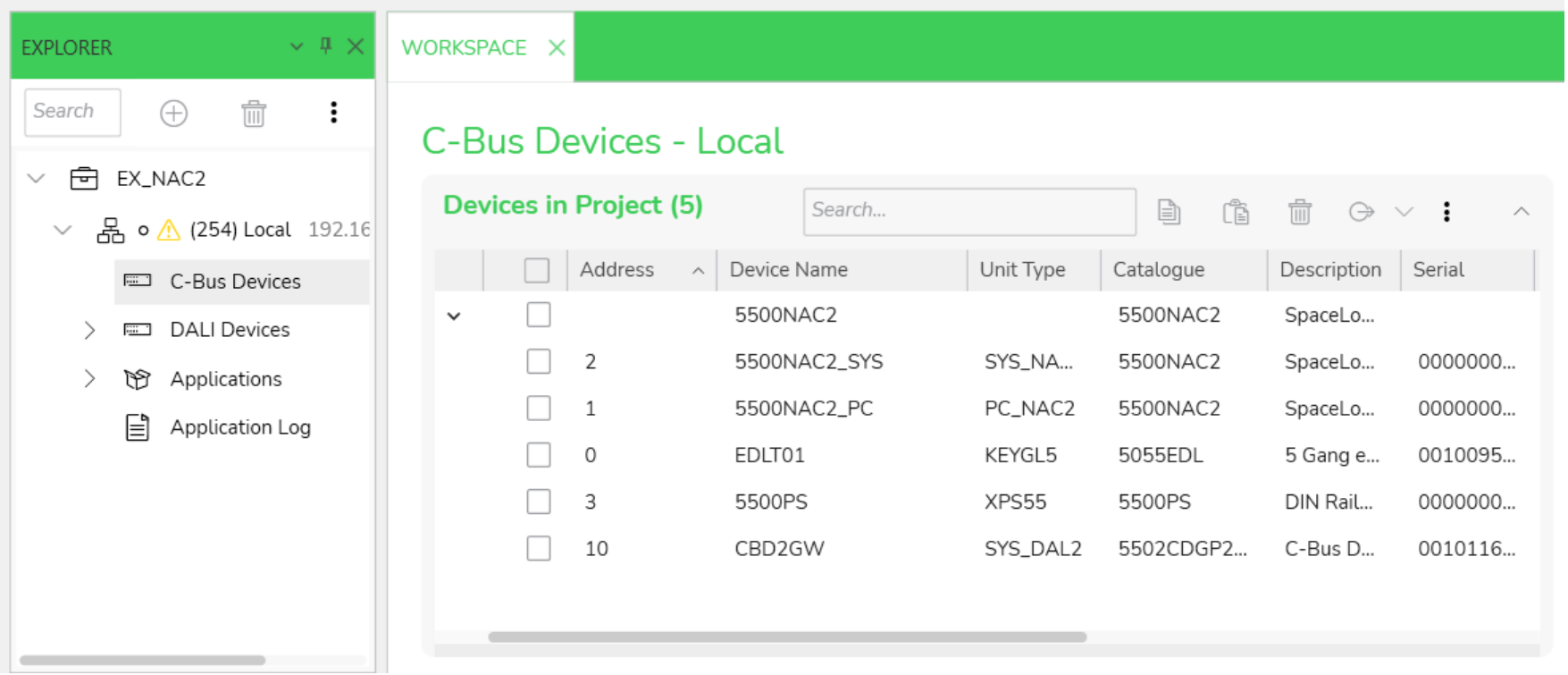
Example C-Bus Solution: 5500NAC2 (Transfer)

In this example, there are no lighting application group addresses in the controller:



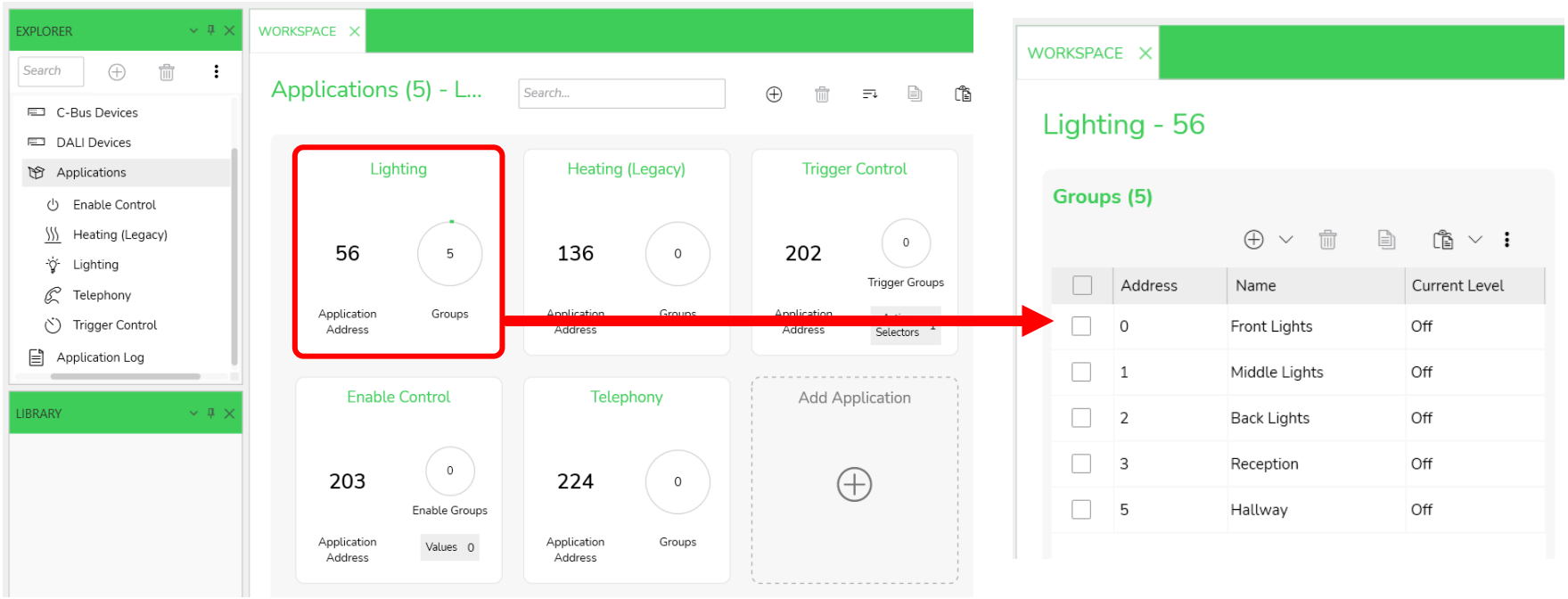
Example C-Bus Solution: SpaceLogic C-Bus Commission (Transfer)

The SpaceLogic C-Bus Commission Project: ***EX_NAC2*** **Devices in Project** window is shown below:



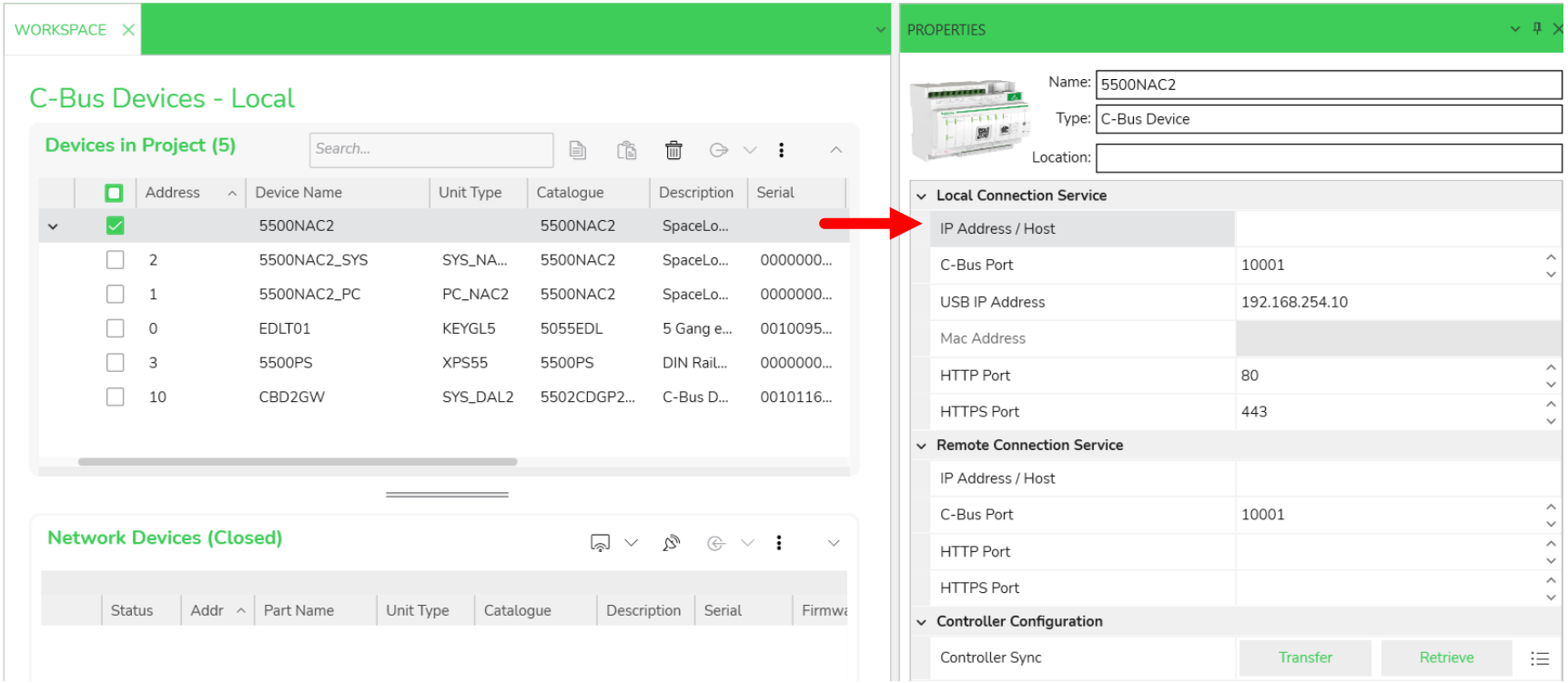
Example C-Bus Solution: SpaceLogic C-Bus Commission (Transfer)

This project has **5 × Lighting Application Group Addresses**:



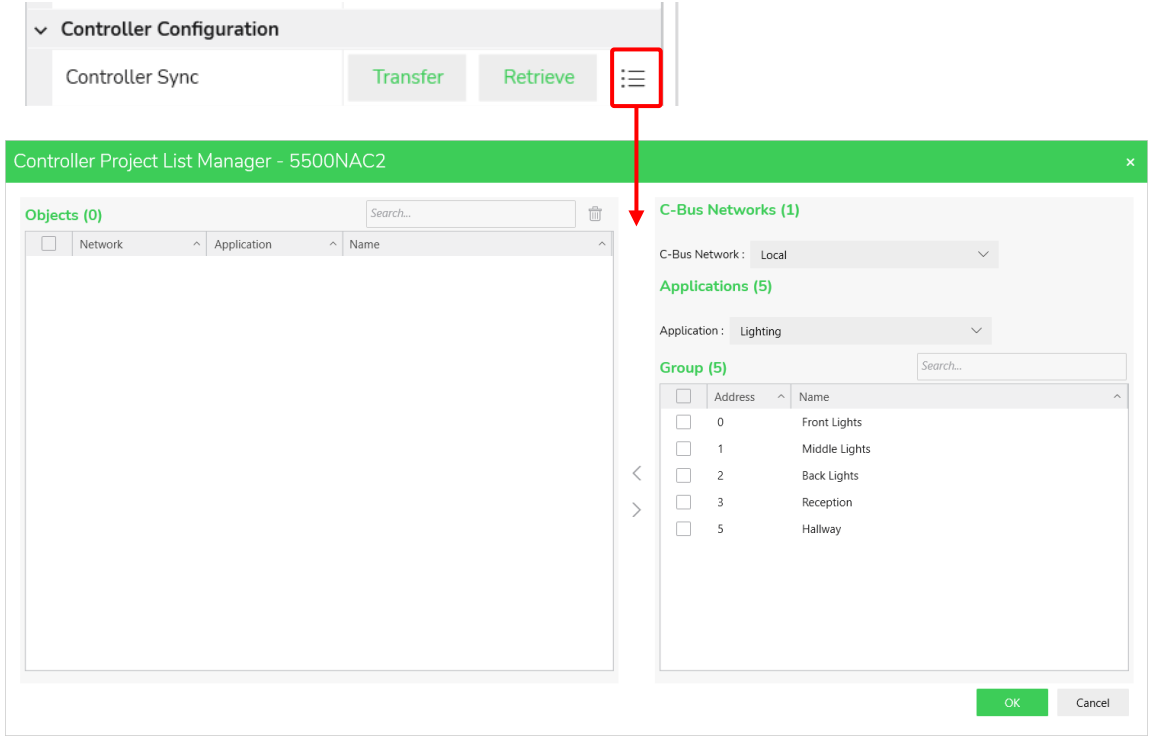
Example C-Bus Solution: SpaceLogic C-Bus Commission (Transfer)

1. In **Devices in Project**, click the **IP Layer** of the controller to load it into the **Properties** window:



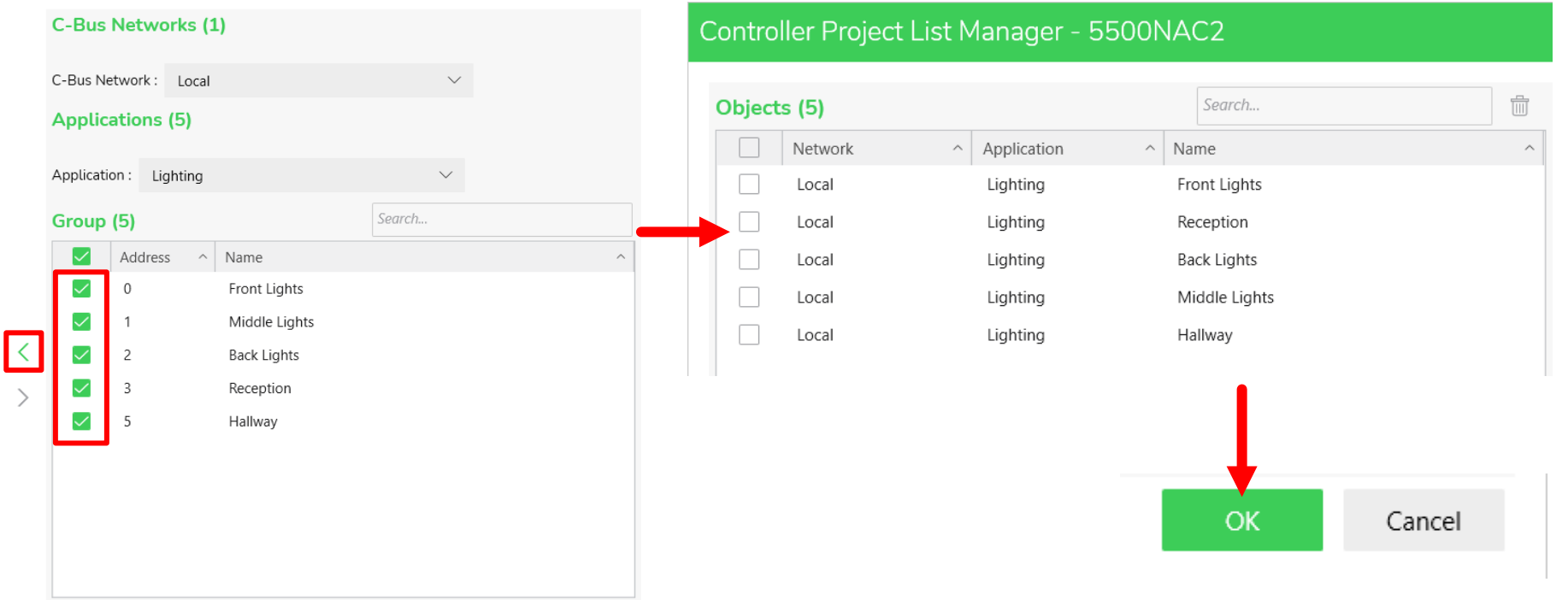
Example C-Bus Solution: SpaceLogic C-Bus Commission (Transfer)

2. In the **Properties Window,** click the **Ellipsis** next to **Controller Sync** to display the **Controller Project List Manager** dialog box:



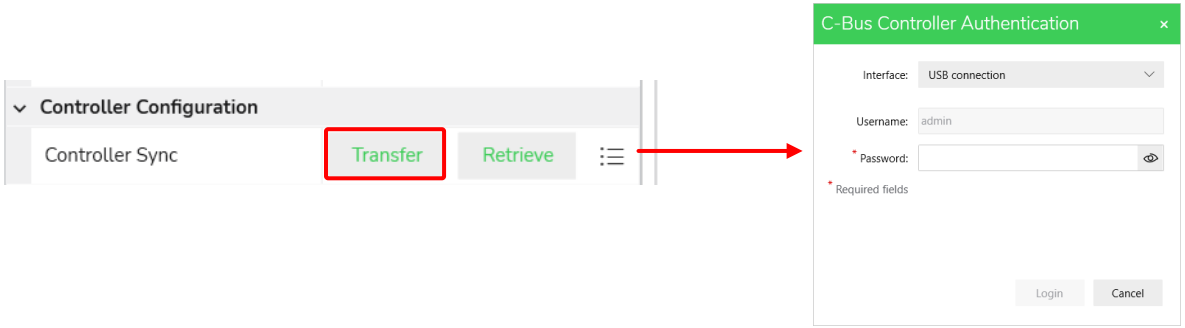
Example C-Bus Solution: SpaceLogic C-Bus Commission (Transfer)

3. In this example, all **5 Lighting Group Addresses** will be selected, click < to add them to the **Objects List**, followed by **OK**:

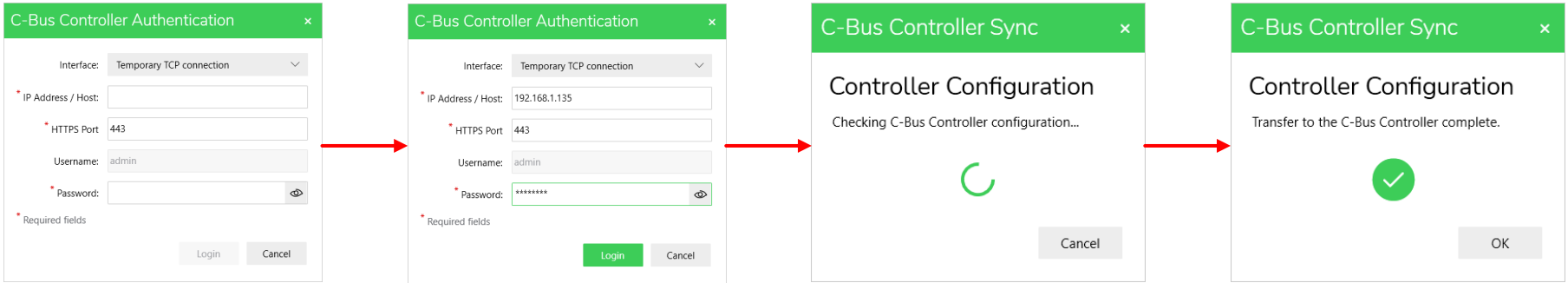


Example C-Bus Solution: SpaceLogic C-Bus Commission (Transfer)

4. Next to **Controller Sync**, click **Transfer** to display the **C-Bus Controller Authentication** dialog box:

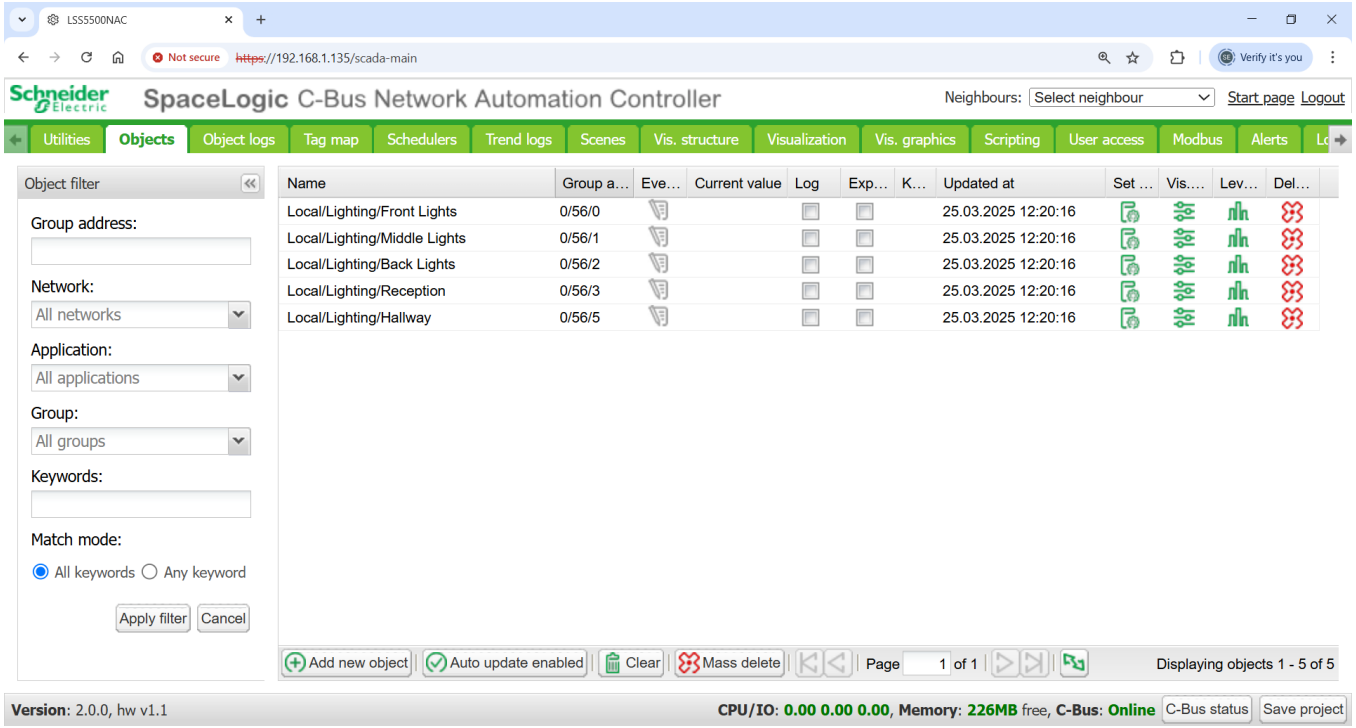


5. Enter in the correct information (such as **Interface type**) and click **Login**:



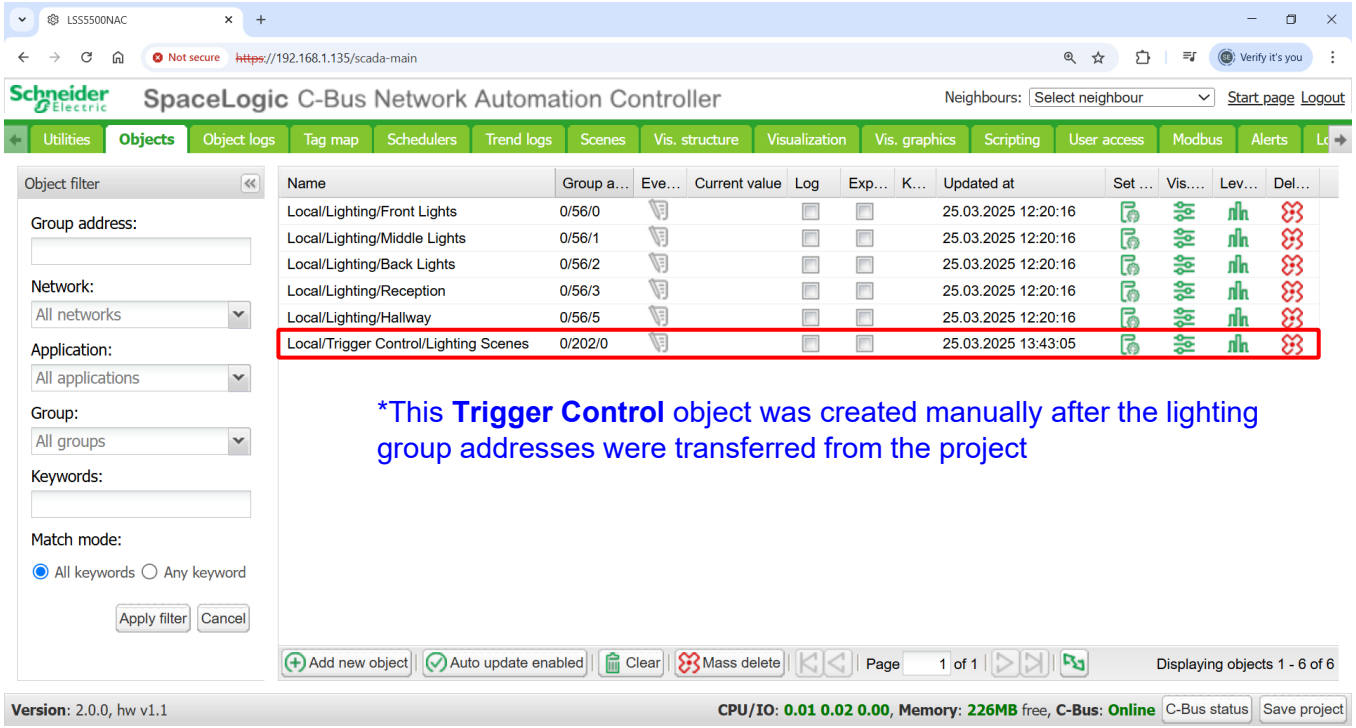
Example C-Bus Solution: SpaceLogic C-Bus Commission (Transfer)

6. The **5 × Lighting Application Group Addresses** will now appear as **Objects** in the Controller, completing the **Transfer** example:



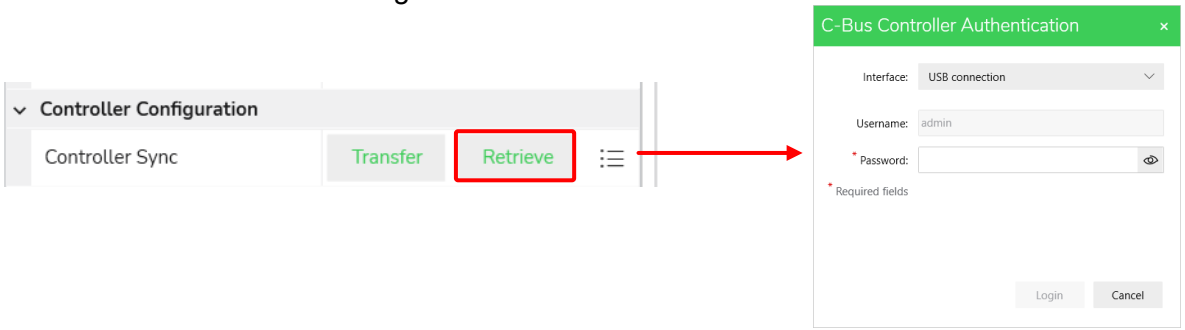
Example C-Bus Solution: SpaceLogic C-Bus Commission (Retrieve)

7. The highlighted Trigger Control group will now be retrieved into the project through **Retrieve (pull)** feature:

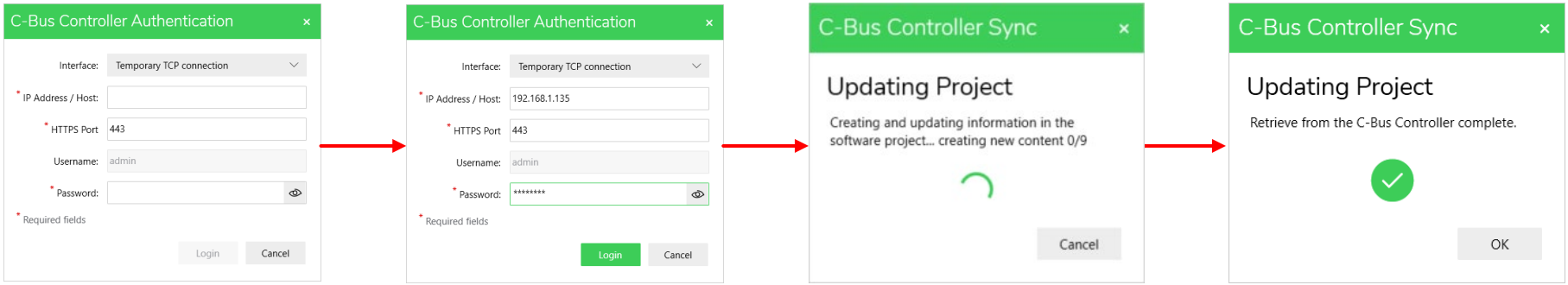


Example C-Bus Solution: SpaceLogic C-Bus Commission (Retrieve)

8. In SpaceLogic C-Bus Controller, in the **IP Layer of the** controller, Next to **Controller Sync**, click **Retrieve** to display the **C-Bus Controller Authentication** dialog box:

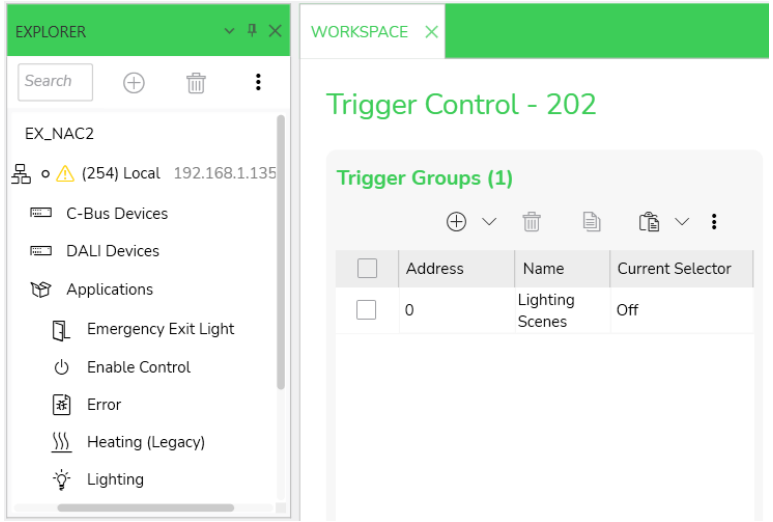


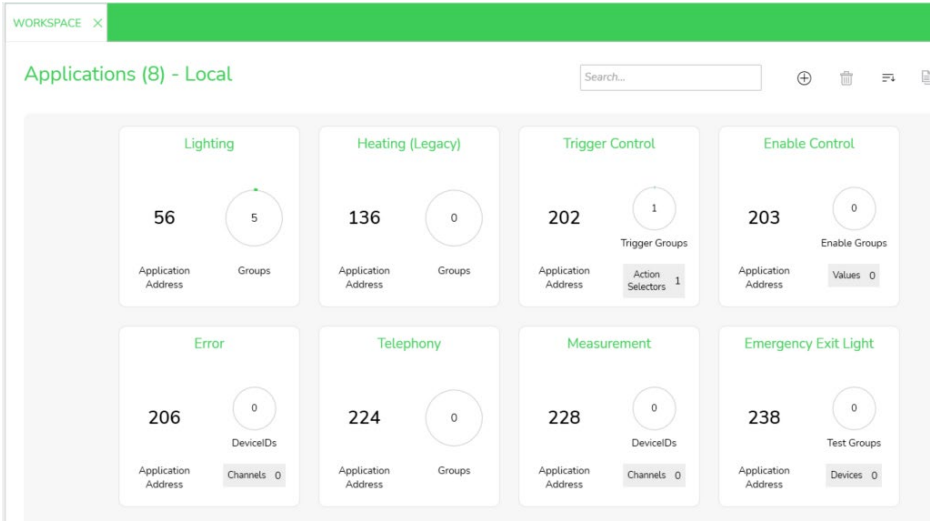
9. Enter in the correct information (such as **Interface type**) and click **Login**:



Example C-Bus Solution: SpaceLogic C-Bus Commission (Retrieve)

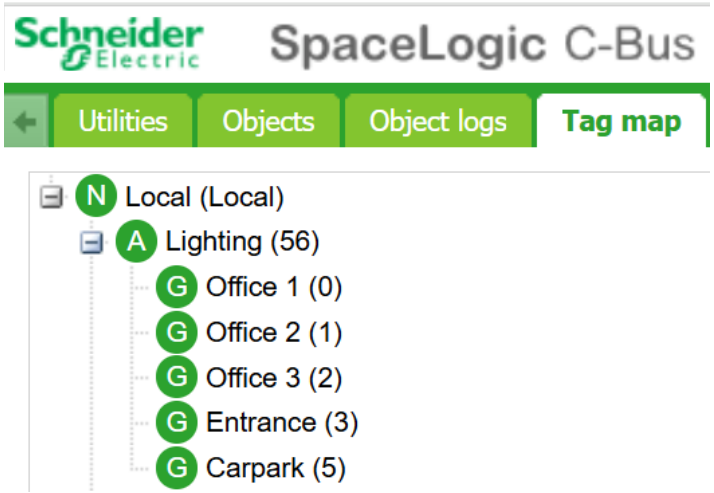
The SpaceLogic C-Bus Commission project has been updated with the **Trigger Control Group Address** along with the **Error**, **Measurement** and **Emergency Exit Light** applications:

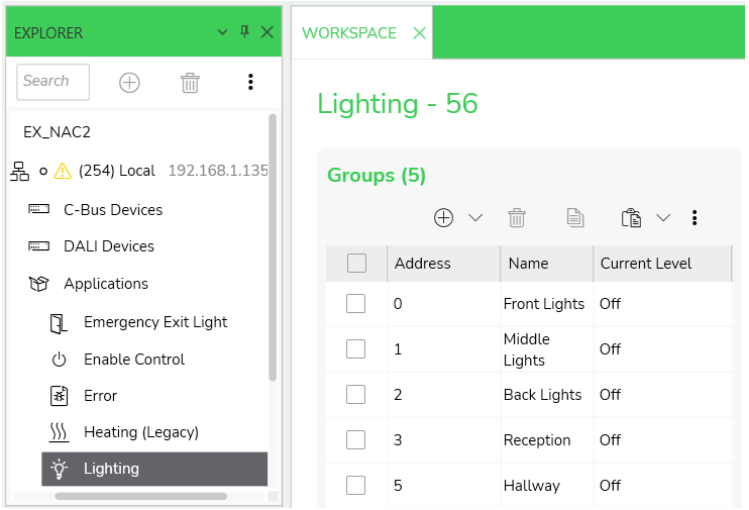




Example C-Bus Solution: SpaceLogic C-Bus Commission (Conflicts)

It was highlighted earlier that only missing content is created and existing content updated (Names), this can be highlighted through the following example:

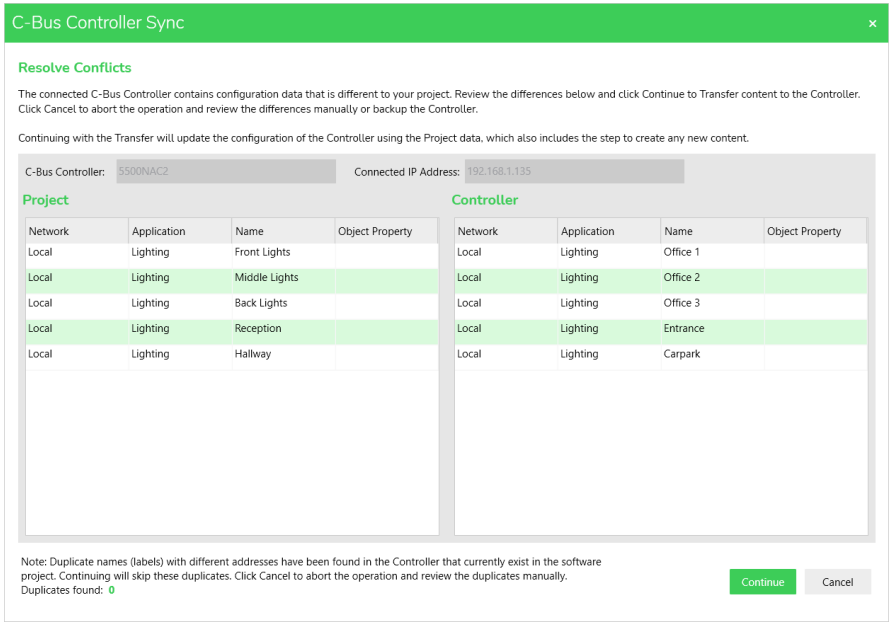




In this situation, the **Lighting Application Group Addresses are the same, but their Tags are different**, the SpaceLogic C-Bus Commission project will now be **Transferred** to the Controller.

Example C-Bus Solution: SpaceLogic C-Bus Commission (Conflicts)

During the transfer process, the following dialog box appears notifying you about the conflicts in configuration data, in this instance, the **Tag Names** of the group addresses:

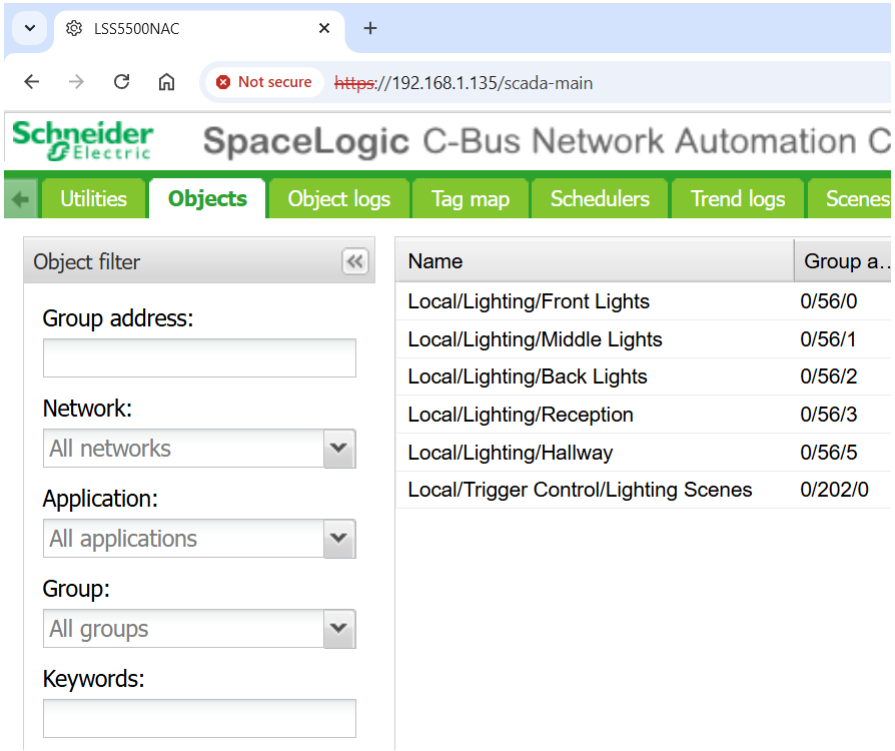


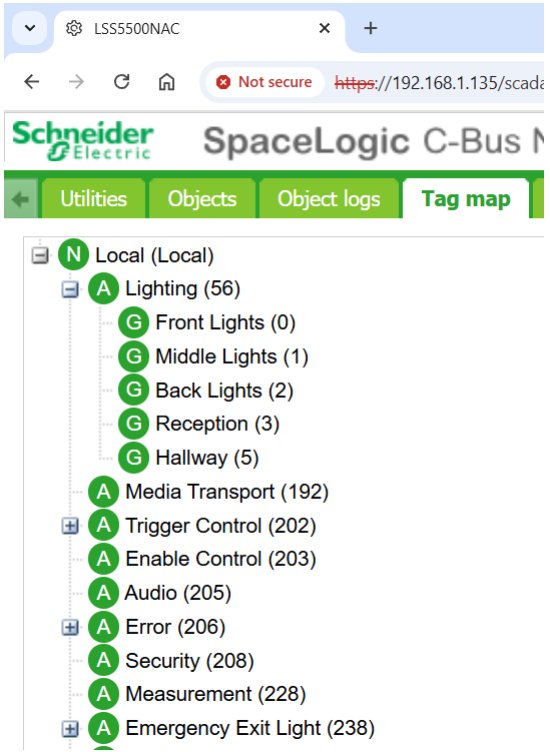
*

This example will proceed with the transfer and resolve the conflicts by updating the Controller's objects with the Tag Names from the SpaceLogic C-Bus Commission project.

Example C-Bus Solution: SpaceLogic C-Bus Commission (Conflicts)

The **5 × Lighting Application Group Address Tags** have been updated in the Controller, completing the **Transfer** example:





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