

# Silvair

# Commissioning

Quick start guide for Android

11 April 2024	SN-230 rev. 1.0
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# 1. Introduction

Silvair Commissioning is a set of tools used to commission and manage commercial lighting installations based on qualified Bluetooth mesh technology. The commissioning consists of three stages:

1. Planning (with an account created in the [Silvair web app](#) before anything is built on site)
2. Implementation on site (with the [Silvair mobile app for Android](#))
3. Verification (with the Silvair mobile app for Android and the Silvair web app)

This guide shows you how to commission a lighting system.

<a href="#">Planning</a>	<a href="#">Silvair web app</a>
	<ol style="list-style-type: none"> <li>1. Design a lighting control plan based on the expected light behavior in each part of your lighting installation.</li> <li>2. Create an account in the Silvair web app.</li> <li>3. Create a project.</li> <li>4. Add collaborators who will be helping you with the commissioning.</li> <li>5. Create areas and upload floor or site plan images.</li> <li>6. Create zones and set up light control profiles. The configuration will be stored in the cloud.</li> </ol>
<a href="#">Implementation</a>	<a href="#">Silvair mobile app for Android</a>
	<ol style="list-style-type: none"> <li>7. Go on site, add luminaires and sensors to the zones, and test the lighting control. The configuration previously created in the Silvair web app is automatically sent to these devices.</li> <li>8. Assign switches to the zones.</li> <li>9. Calibrate any ambient light sensors.</li> </ol>
<a href="#">Verification</a>	<b>Silvair mobile app for Android, Silvair web app</b>
	<ol style="list-style-type: none"> <li>10. Make sure that there are no errors in the areas.</li> <li>11. Analyze the commissioning report.</li> </ol>

To use more advanced features not included in this guide, see these documents:

- Zone linking: [SN-200 Silvair Commissioning user manual](#).
- Scheduling: [SN-201 Silvair Scheduling](#).
- Emergency lighting testing: [SN-214 Silvair Emergency Lighting Testing](#).
- Occupancy monitoring: [SN-218 Silvair Occupancy Monitoring](#).
- Energy monitoring: [SN-222 Silvair Energy Monitoring](#).

To troubleshoot issues that may have occurred during commissioning, see the [SN-223 Silvair Commissioning troubleshooting guide](#).

## 2. Planning

### 2.1 Preparing

1. Design a lighting control plan based on the required light behavior in each part of your lighting installation.

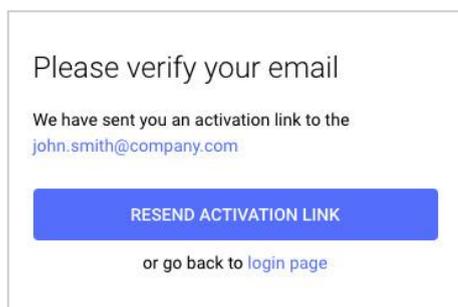


Take into account the properties of radio communication. Think about how you will group your luminaires, sensors, and switches into areas and zones.

2. See the [SN-211 Silvair Lighting Control application note](#).
3. If your project meets at least one of the following criteria, see [SN-213 Recommendations for complex lighting installations](#):
  - Has more than approximately 200 devices.
  - At least some devices are placed along a straight line.
  - Distances between devices are large.
  - Uses a *daylight harvesting* scenario.

### 2.2 Creating an account in the Silvair web app

1. Go to the [Silvair web app](#).
2. On the **Sign up** tab, enter your company name, full name, and email address, choose a password, and select the checkbox.
3. Click the **Sign up** button.
4. Check your inbox (and spam folder) for the activation link and click on it to activate your account.



**SILVAIR**

LOG IN      SIGN UP

Your company (optional)  
Company

Your full name  
John Smith

Email address  
john.smith@company.com

Password  
.....

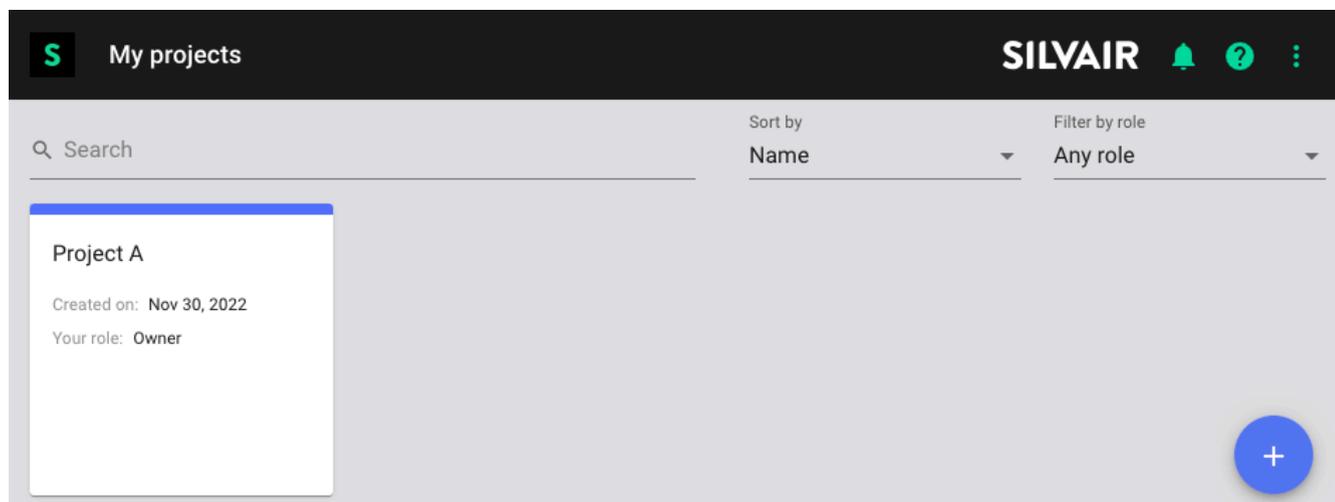
I accept and agree to [Terms of Use](#) and [Privacy Policy](#)

[SIGN UP](#)

## 2.3 Creating a project

**i** A project is a separate lighting installation created in the Silvoir Commissioning tool. It can be as large as a whole building or site, or as small as a single room. Each project is a single Bluetooth mesh network that is separated from other such networks. A project can consist of multiple areas.

1. Log in to the [Silvoir web app](#).
2. Click + to create a project.



3. Enter a name for the project, select the correct time zone, and click **Create**.

Create project

Project name

Time zone

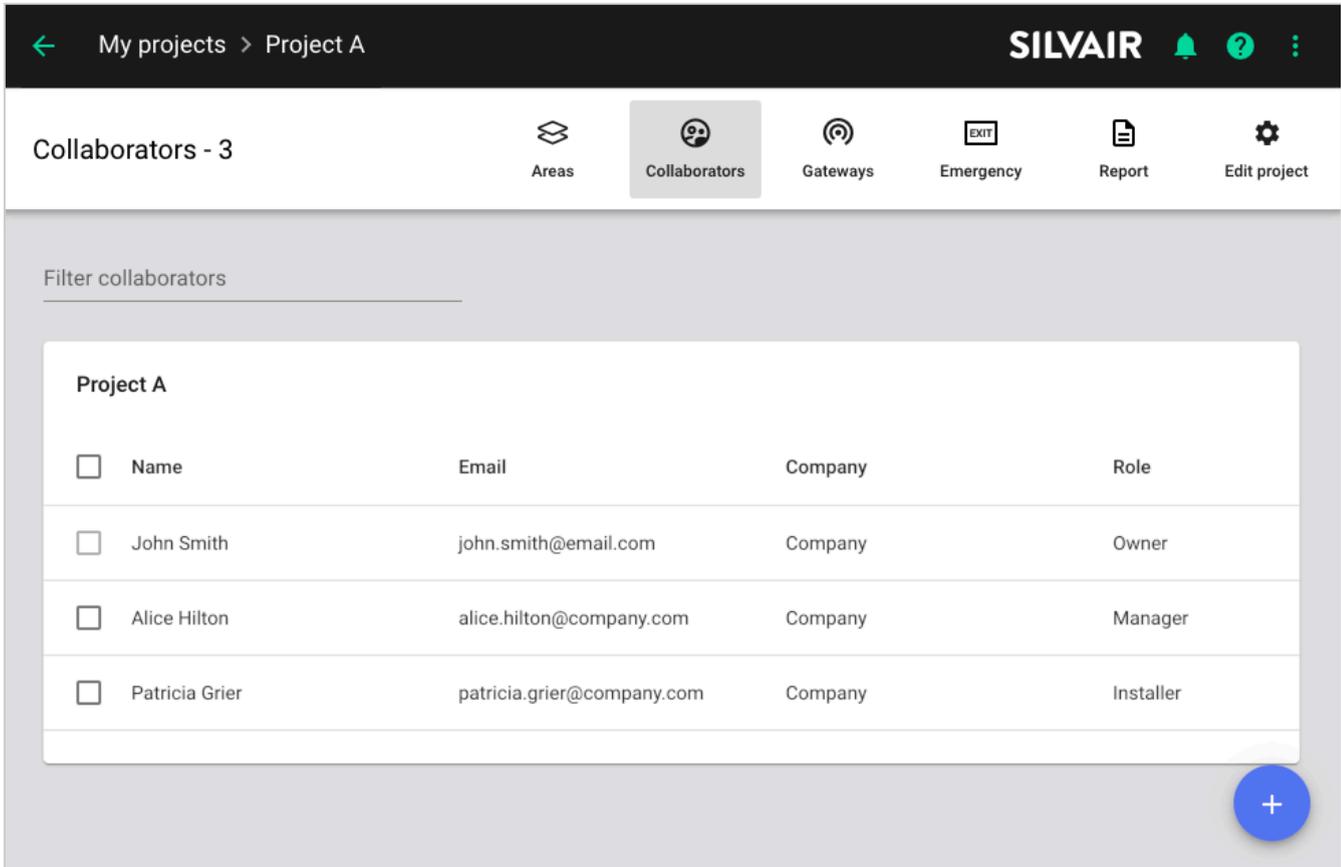
CANCEL CREATE

## 2.4 Adding collaborators

 To speed up the work, you can share your project with others so they can participate in the commissioning.

1. Open the project and click **Collaborators**.
2. Click **+** and enter the email addresses to invite to commissioning.

 Collaborators can be given the role of Owner, Manager, Installer, or End User. For more information about user roles, see the [SN-200 Silvair Commissioning user manual](#).



The screenshot shows the 'Collaborators' screen in the SILVAIR mobile app. The top navigation bar includes a back arrow, 'My projects > Project A', the SILVAIR logo, a notification bell, a help icon, and a menu icon. Below the navigation bar is a horizontal menu with icons for 'Areas', 'Collaborators' (selected), 'Gateways', 'Emergency', 'Report', and 'Edit project'. The main content area has a 'Filter collaborators' search bar. Below it is a table titled 'Project A' with columns for 'Name', 'Email', 'Company', and 'Role'. The table lists three collaborators: John Smith (Owner), Alice Hilton (Manager), and Patricia Gier (Installer). A blue '+' button is located at the bottom right of the screen.

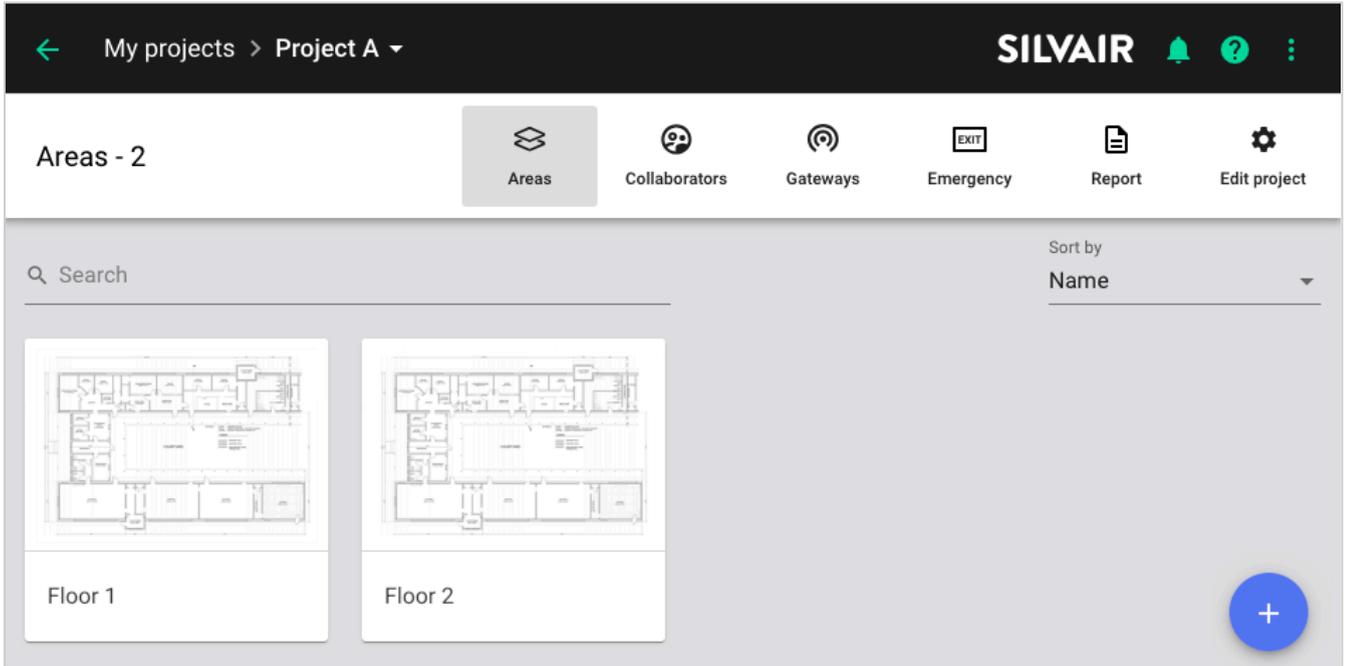
<input type="checkbox"/>	Name	Email	Company	Role
<input type="checkbox"/>	John Smith	john.smith@email.com	Company	Owner
<input type="checkbox"/>	Alice Hilton	alice.hilton@company.com	Company	Manager
<input type="checkbox"/>	Patricia Gier	patricia.grier@company.com	Company	Installer

## 2.5 Creating areas and uploading floor or site plan images

**i** A project can be divided into areas for better clarity and easier navigation. Typically, an area is a floor, but it can also be a part of a big floor, or even a part of a building, such as a parking lot. All devices in an area must be in range of the Bluetooth mesh network and each area must be connected to other areas. Areas can include a floor or site plan to help the user navigate the project.

**i** If an area is separated from other areas in the project and cannot communicate with them, it should be set up as a separate project.

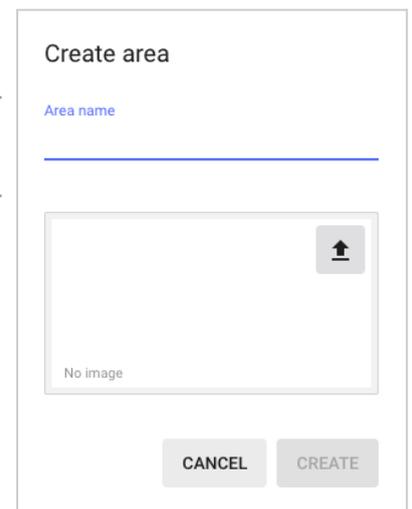
1. Open the project.
2. Click + to create an area.



3. Enter a name for the area.
4. Click  and open a JPEG, PNG, or PDF file with a floor or site plan image.

**i** The image will help you put the zones in the correct place during commissioning.

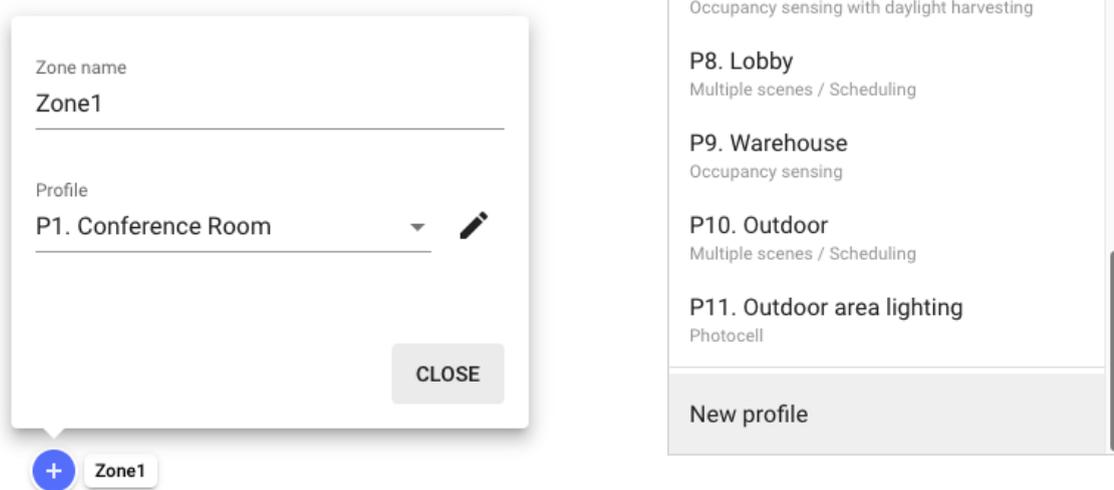
5. Click **Create**.
6. Repeat steps 2–5 to create more areas and upload a floor or site plan image to each area.



## 2.6 Creating zones and setting up control profiles

**i** An area consists of zones that contain devices (luminaires, sensors, and switches) that have been commissioned using the Silvair mobile app. A zone can be a whole room or a part of it, or a separate space. All devices in the zone operate according to the control profile set up for the zone.

1. Open an area.
2. Click on the floor or site plan to add a zone. To move the zone, drag it to where you want it.
3. Enter a name for the zone. Each change is saved automatically.



4. Select a control profile from the list of default profiles, or create a new profile.

**i** A control profile is a scenario with settings used to control a zone. A scenario defines how the light behaves in the zone. If you set a different scenario for a profile, different settings may be available.

5. Click  to edit the parameters of the profile.
6. Repeat steps 2–5 to create more zones in this area and assign a control profile to each zone.

**i** At any time, you can change the zone position, name, or profile, add or delete zones, or change the floor or site plan image.

**i** For more information about control profiles and scenarios, see the [SN-200 Silvair Commissioning user manual](#) and [SN-211 Silvair Lighting Control](#).

7. Go to the remaining areas and repeat steps 2–6 to create zones and assign a control profile to each zone.

# 3. Implementation

## 3.1 Preparing

1. Make sure that all devices are correctly installed and powered on in your building or site, and that they support qualified Bluetooth mesh technology.
2. Install the [Silvair mobile app](#) on your Android mobile device.
3. Make sure that your mobile device is connected to the internet when you are on site.
4. Make sure that Bluetooth on your mobile device is turned on.
5. If any of the zones use a control profile with a *daylight harvesting* scenario, bring a light meter.
6. If you want to control a zone manually, install a Bluetooth EnOcean switch in the zone.

**i** Keep the QR code of the EnOcean switch in a safe place. You will need the code if you want to assign the switch to a different device.

## 3.2 Commissioning the project

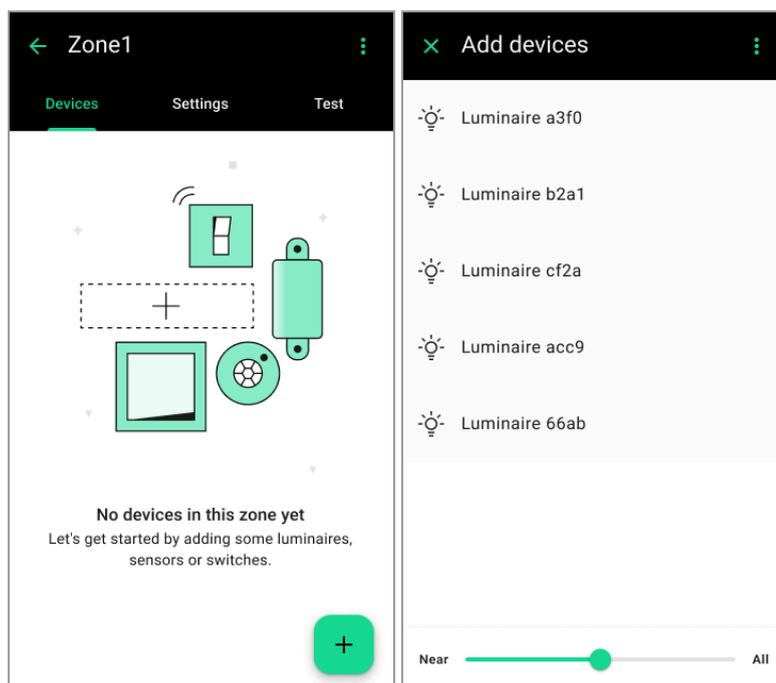
### 3.2.1 Adding devices to the zones

1. Go on site where the devices are installed.
2. Log in to the Silvair mobile app and go to the project and area.
3. Go to the zone where you want to add devices.
4. Move as close as possible to the devices and tap +.

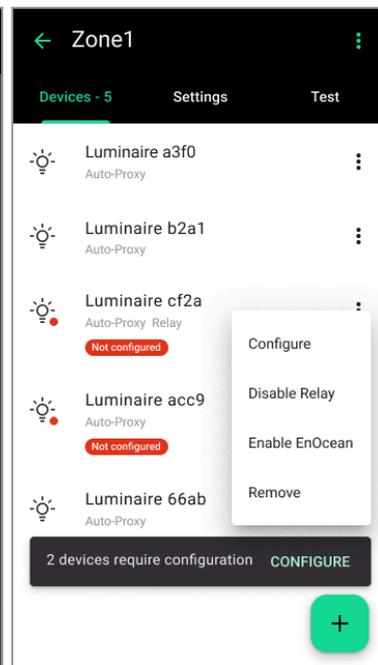
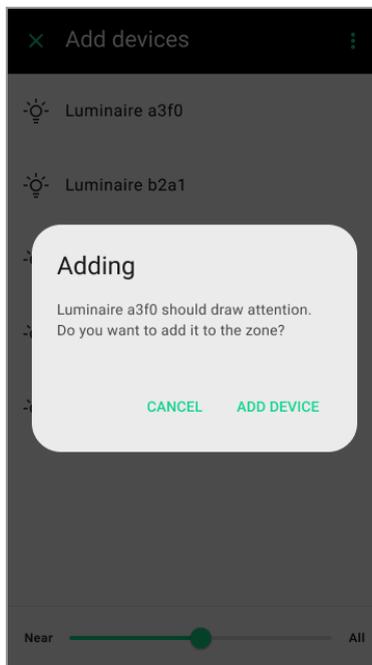
**i** A list of devices will appear.

**i** If you want to see only the nearest devices, move the slider to the left.

**i** If the device you want to add does not appear, it may have been added to a different zone or project, or it could be damaged.



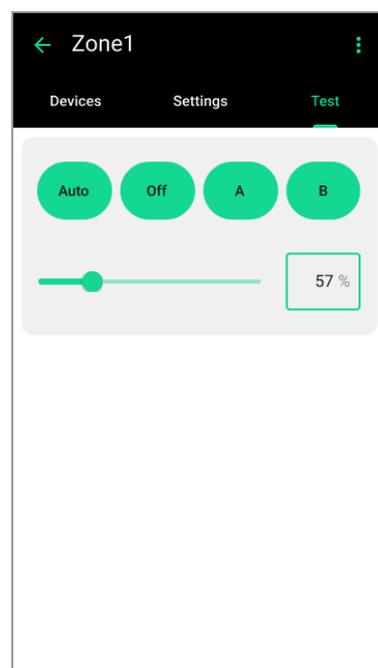
5. Tap a device to add it to the zone.  
The device will identify itself by flashing.  
If this is the correct device, tap **Add device**.
6. Add the remaining devices to the zone.
7. Go back to the **Devices** tab.
8. If a **Not configured** label appears below a device name, tap **⋮** > **Configure** to configure this device. To configure all devices that require configuration in this zone, tap **Configure** on the bottom bar.



9. Go to the **Test** tab and use the **Auto** and **Off** buttons to make sure that all devices in the zone respond as intended.

 For more information about testing the zones, see the [SN-200 Silvair Commissioning user manual](#).

10. Repeat steps 3–9 to add devices to the remaining zones in this area.
11. Go to the remaining areas and repeat steps 3–10 to add devices to zones.



### 3.2.2 Assigning EnOcean switches to the zones

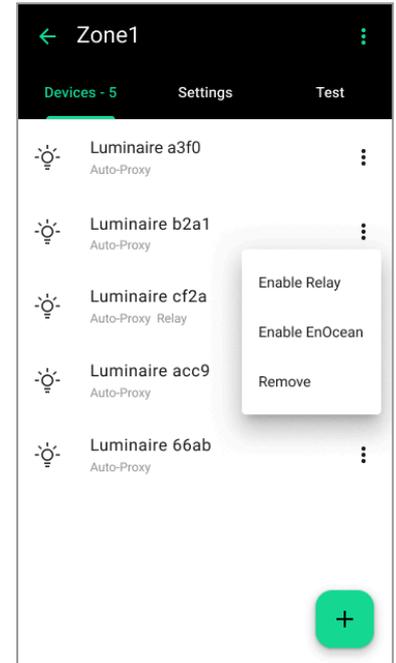
If you want to control the light in a zone with an EnOcean switch, perform these steps:

1. Make sure that a Bluetooth EnOcean switch is installed in the zone.
2. Select a device to act as an EnOcean adapter. This device must be close enough to the EnOcean switch.
3. Go to the zone, and for the device you have selected, tap  > **Enable EnOcean**.

 To find the device, tap  next to a device name to make sure that the correct device flashes.

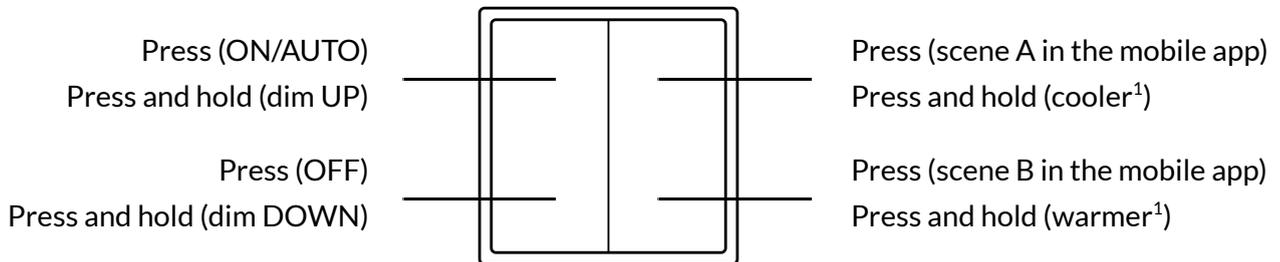
 Make sure that this device is not also set up to act as a *static proxy* or a *relay*.

4. If the app asks for permission to access the camera, tap **OK**.
5. Point the camera at the QR code on the back of the EnOcean switch or on its packaging. The app will read the code and configure the connection.
6. Use the buttons of the EnOcean switch to make sure that all devices in the zone respond as intended.



The left button is used for manual control (ON/AUTO / OFF) and dimming (dim UP/DOWN).

 The right button (if available) is used to recall scenes (scene A, scene B; if configured) and control color temperature (cooler/warmer).



7. Repeat steps 1–6 for all zones that you want to control with an EnOcean switch.

 For more information about the EnOcean switch, see [SN-203 EnOcean switch](#).

 For information about how to set up and trigger scenes with the EnOcean switch, see the [SN-200 Silvair Commissioning user manual](#).

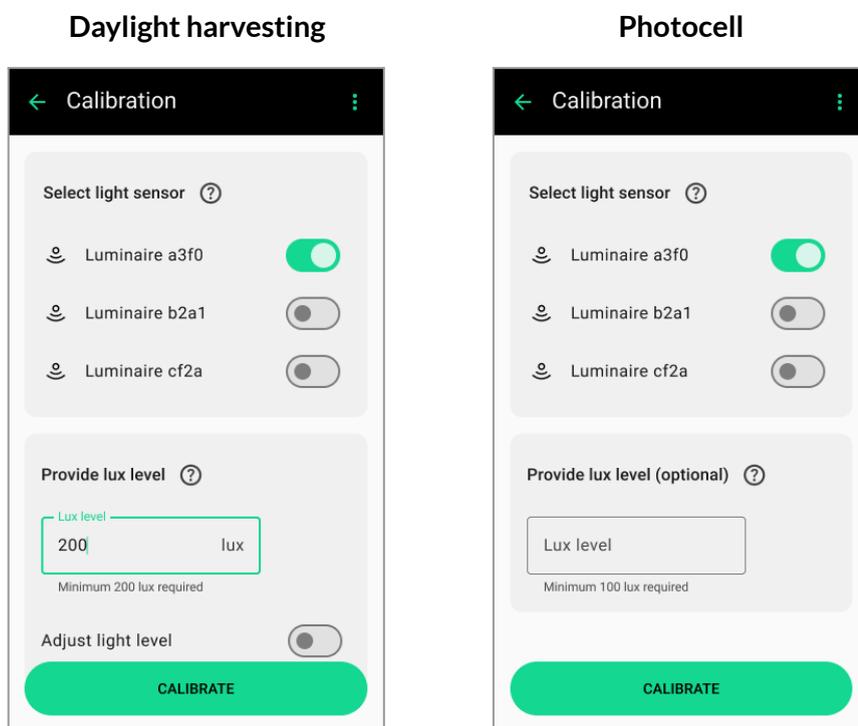
 For information about mesh network best practices, see [SN-202 Optimizing mesh network performance](#).

<sup>1</sup> Only for zones with compatible tunable white fixtures and Silvair firmware version 2.15 or later. Otherwise, the *press and hold* action of the right button will not work.

### 3.2.3 Calibrating the light sensors

If the zone uses a *daylight harvesting* or a *photocell* scenario, perform these steps:

1. Go to the zone and on the **Devices** or **Settings** tab, tap **Calibrate**.
2. Select the correct sensor for the zone. To find the sensor, tap  next to a sensor name to make sure that the correct sensor flashes.



3. For a *daylight harvesting* scenario:
  - a. Put a light meter vertically below the sensor onto the surface where you want to maintain the required light level.
  - b. Read the value shown on the light meter in lux and enter it into the **Lux level** field.

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 Make sure that the measured light level is at least the minimum specified below the **Lux level** field.

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 If the required minimum light level cannot be achieved, because for example you must calibrate at night, see [SN-209 Silvair Daylight Harvesting](#).

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4. Tap **Calibrate**.
5. For all zones with a *daylight harvesting* scenario, repeat steps 1–4. For all zones with a *photocell* scenario, repeat steps 1, 2, and 4.

## 4. Verification

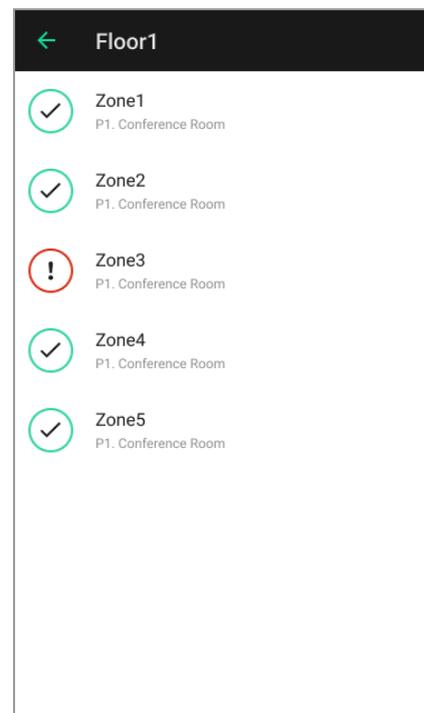
### 4.1 Making sure that there are no errors in the areas

1. In the **Silvair mobile app for Android**, go to an area and make sure that a checkmark appears for each zone.

 All devices in the zone have been commissioned.

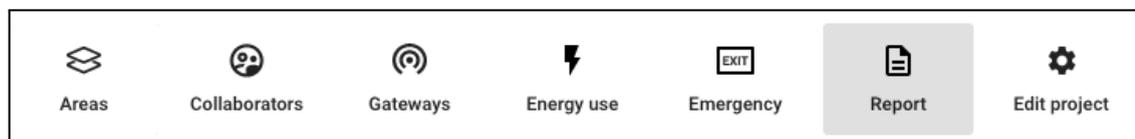
 There are some issues in the zone.

2. If there are zones with an exclamation mark, go to each such zone.
  - a. If a **Configure** button appears, tap it to configure all devices that require configuration in this zone.
  - b. If a **Calibrate** button appears, tap it and continue as described in [Calibrating the light sensors](#).
3. Repeat steps 1–2 for the remaining areas.



### 4.2 Analyzing the commissioning report

1. In the [Silvair web app](#), open the project and click **Report > Download**.



2. Analyze the report to make sure that everything is set up correctly.

 The commissioning of your lighting system is now complete. The devices in all zones will behave as configured in the Silvair web app.

 The commissioning report includes details about the project, areas, zones, devices, control profiles, zone linking, scheduling, energy monitoring, gateways, mesh quality, and collaborators. For more information about the report, see the [SN-200 Silvair Commissioning user manual](#).

## 5. Android vs. iOS/iPadOS mobile app comparison

	Android	iOS/iPadOS
Log in to an account	✓	✓
Create and remove an account	✗	✓
Request password change	✗	✓
View the list of projects, areas, and zones	✓	✓
Create, edit, and remove projects, areas, and zones	✗	✓
Manage projects in version earlier than 202007	✗	✓
Add and manage project collaborators	✗	✓
View the floor or site plan	✗	✓
View the list of devices added and those available to be added	✓	✓
View diagnostics and monitoring data for a device	✗	✓
Change the device name	✗	✓
Add a single device to a zone at a time	✓	✓
Add multiple devices to a zone at a time	✗	✓
Add a device with firmware version earlier than 2.17 or with non-Silvair firmware	✗	✓
Remove a device from a zone and restore it to a zone	✓	✓
Configure devices	✓	✓
Configure all devices in an area at a time	✗	✓
Edit profiles and scenes	✗	✓
Manually set up a device to act as a relay	✓	✓
Assign an EnOcean switch to control a zone	✓	✓
Dim all devices in a zone at a time and recall scenes using the 'Test' tab	✓	✓
Dim a single device and control color temperature using the 'Test' tab	✗	✓
View the sensor status	✗	✓
Set up daylight harvesting and calibrate light sensors	✓	✓
Manually start an emergency lighting test	✗	✓
View and collect the emergency lighting test results	✗	✓
Manually sync the time in the mesh network	✗	✓
Perform a mesh quality test	✗	✓
Perform over-the-air update (OTAU)	✗	✓

## 6. Document revisions

Revision	Date	Editor	Changes
1.0	11 April 2024	GM	First release.

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