

COMMISSIONING GUIDE

Wireless Flex Dimming G2



 **signify**
interact



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1. Introduction

Thank you for choosing Fluence Wireless Flex Dimming G2, a second-generation wireless control system for horticulture lighting.

Fluence Wireless Flex Dimming G2 utilizes Zigbee mesh technology, enabled by Interact, for use with the next generation lamps with up to three channel spectrum light control.

This document describes the following items:

- Installation and sign up for the use of the commissioning app.
- An explanation of the design guidelines for the creation of networks
- The commissioning process
- Operation of completed networks

The Fluence Wireless Flex Dimming G2 consists of one – orange colored - Fluence Wireless Flex Dimming G2 Transmitter Dongle and either compatible luminaires (e.g., RAPTR2 series luminaires) or luminaires equipped with – white colored – Fluence Wireless Flex Dimming G2 Receiver Dongles.

In this document, when mentioning 'luminaires' it refers to both wireless luminaires and luminaires equipped with a Wireless Flex Dimming G2 Receiver Dongle, unless explicitly mentioned otherwise.

The screenshots in this document are for reference and may slightly deviate from the actual screen of your application, as sometimes small modifications are made during update of the app.

1.1 Basic Operation of the Wireless Flex G2 System

This Commissioning Guide describes how to create a group of luminaires and connect them to the Fluence Wireless Flex Dimming G2 Transmitter Dongle. A group comprises (up to 199) luminaires (wireless or with Wireless Flex Dimming G2 Receiver Dongle) and one Fluence Wireless Flex Dimming G2 Transmitter Dongle.

In a facility, we can define multiple of these groups, each one of them with its own Wireless Flex Dimming G2 Transmitter Dongle. When assigned to a group ('commissioned'), they are controlled exclusively by their own Wireless Flex Dimming G2 Transmitter Dongle.



Compartments requiring different light levels or - when applicable - different light spectra can be controlled individually via these groups, via separate 0-10V signals.

The Fluence Wireless Flex Dimming G2 Transmitter Dongle will work with

- Recent Wireless luminaires, e.g., RAPTR 2 series. These luminaires include compatible, built-in, receivers.
- Specific luminaires with a 0-10V input and compatible with the Wireless Flex Dimming G2 Receiver Dongles, e.g., VYPR luminaires.



Attention

The Wireless Flex Dimming G2 Transmitter Dongles and -Receivers are not compatible with the first-generation Wireless Flex Dimming Adapters and -Receivers. They use different connectors and/or wiring. In case of doubt, please consult your Fluence representative.

2. The App

The app is used for clustering individual luminaires (including the Wireless Flex G2 Transmitter Dongle into 'groups.'

After defining groups and assigning them to a network, the app can be used for reference, maintenance and future use but does not have an active role in the operation of the light installation.

2.1 Installation of the App

The Interact Horticulture app is available in the App store or in the Google Play Store.

The app can be installed on any modern Android™- or iPhone® device/phone that meets the following requirements:

- Must have Android version 12 or higher, iOS 16.0 or higher,
- Must have Bluetooth® 5 or higher,
- Must have Internet access (also during use of the app for commissioning),
- Must have a valid email address.



Interact Horticulture
App Icon

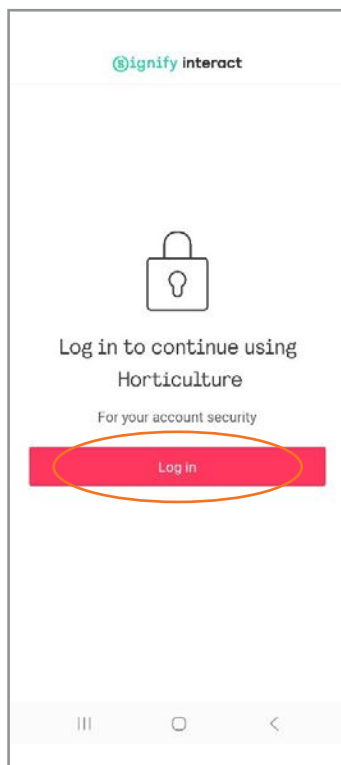
Use the appropriate URL or QR code for the direct link.



iOS App Store
<https://apps.apple.com/in/app/interact-horticulture/id6698866597>



Google Play Store
<https://play.google.com/store/apps/details?id=com.philips.li.horti&hl=en-US&pli=1>



Install the app and open it:

The app requires the use of an account. If you do not have an account, please create one.

(follow the instruction as described in Chapter 2.3 "Create the account")

- Select [Log in] to create an account, or
- Select [Log in] to proceed to the next screen.

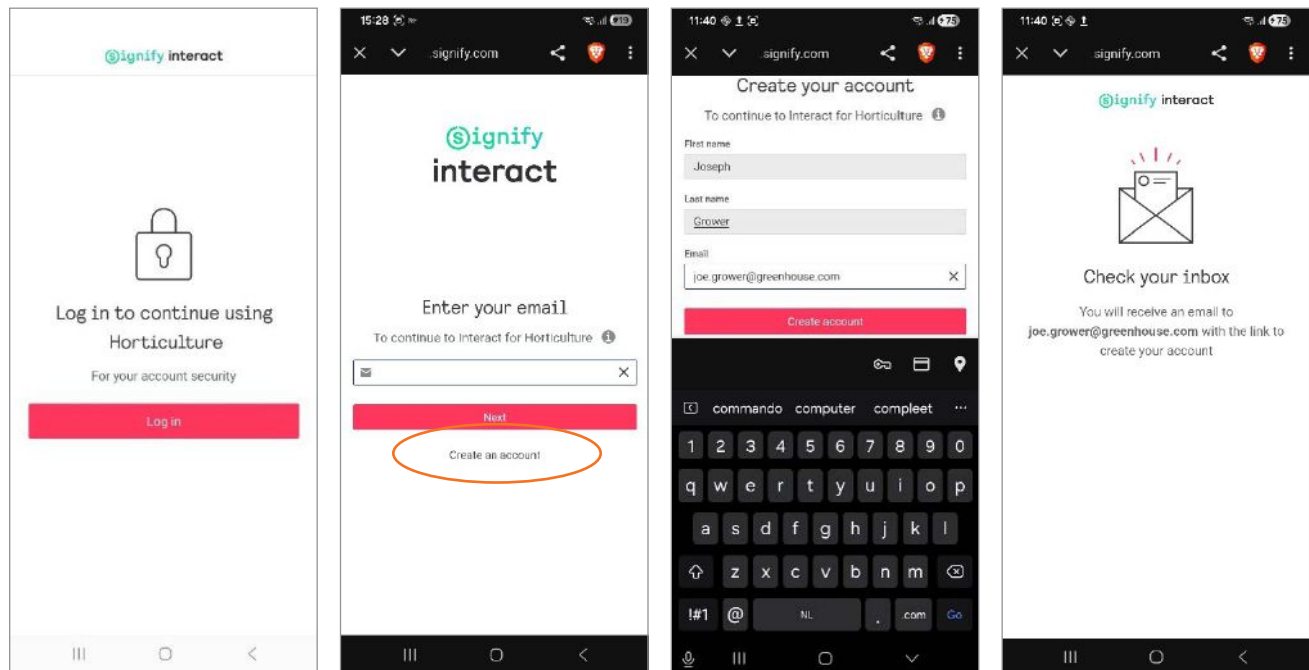
Note: The app will follow the language setting of your device/phone. The text shown in the screenshots may be different based on the selected language.

2.3 Create an Account

Select [Create an account].

In the next screen, fill in your name and mail address. The name later will be visible on the list of people that have access to a project.

You will receive a confirmation mail to activate the account and to create the password.



In case you do not receive the mail, please check your junk- or spam box. If it also cannot be found in the junk, or spam box, please resubmit the request.

In case all attempts fail, please consult your local Fluence representative.

3. Preparation

3.1 Design Rules

Please respect the following design rules:

1 Site

Max 100 Networks

1 Network

- One (1) Group
- One (1) Radio Channel

1 Group

- Max 199 luminaires*
- One (1) transmitter dongle
- Linked to one or multiple breakers

**Note: A luminaire may be a wireless type or use a WFD G2 Receiver.*

Definitions:

A **Site** is one location of the facility in which all networks are located. A site may contain up to one hundred different networks.

A **Network** is a part of the greenhouse which is independently controlled and – in this configuration – contains one group.

A **Group** is a collection of all luminaires and one Wireless Flex Dimming G2 0-10V Transmitter Dongles that belong together.

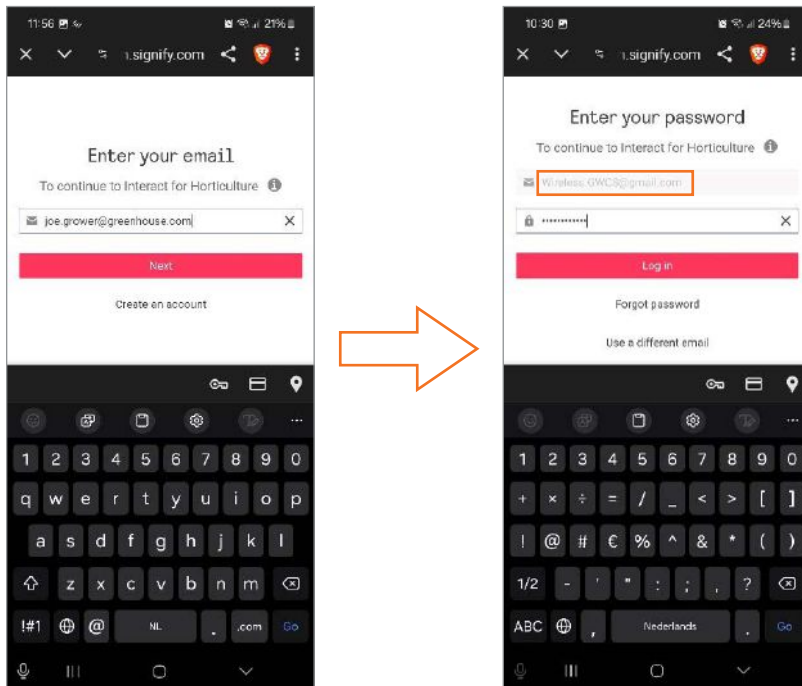


Attention

The number of 199 luminaires is an absolute maximum that can be assigned to a group. It is advised to keep a margin (~ 10 luminaires) to allow future facility modifications and upgrades.

3.2 Log in to the Horticulture App

Log in with your email address and fill in your password.



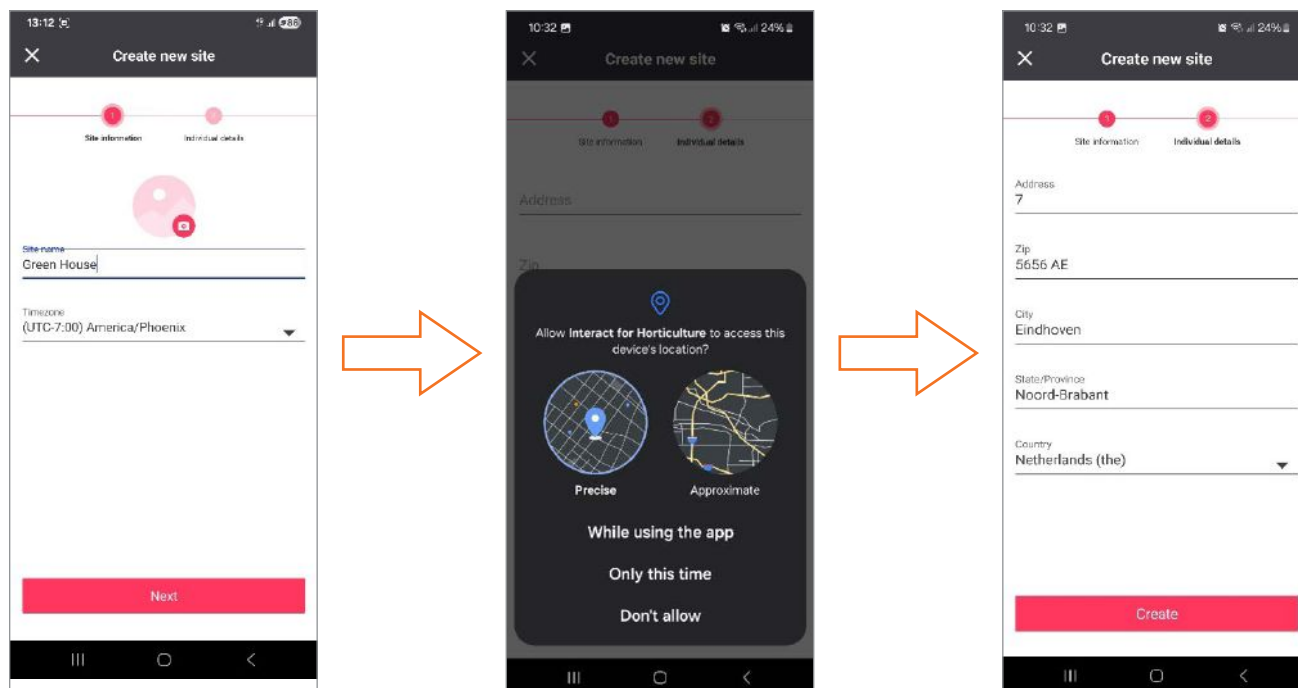
Attention

After several attempts using a wrong password, your account will be blocked for 12 hours for security reasons.

3.3 Creating a Site

After log-in, a screen with sites will appear. These are the projects to which the user already has access (either own created or via invitation).

Create a new site by selecting the red button [Create site]. Fill in the requested information.



Attention

When location access has been granted for this app, the address will be filled in automatically. Check if this info is correct and change it when necessary.

Select the button [Create]. After the site has been created, you will enter the main menu.

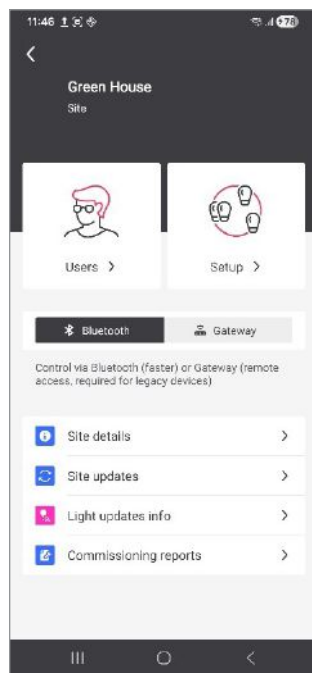


Attention

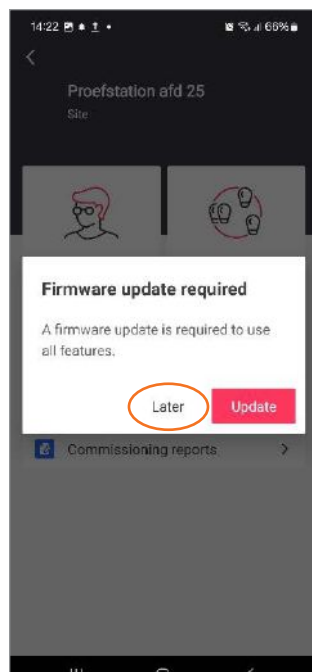
Once created, a site cannot be deleted. However, it is possible to modify its parameters (name, location).

3.4 Main Menu

The main menu gives access to the following items:



- [Users]
 - All persons that have – or will have - access to the project.
- [Setup]
 - Assigning of luminaires to the networks in the greenhouse.
- [Site Details]
 - Location and time zone information.
- [Site updates]
 - Status of updates of networks (not relevant for this application)
- [Light updates info]
 - Information status of luminaires (not relevant for this application)
- [Commissioning reports]
 - Creates reports of assigned networks of the greenhouse.



Attention

When opening an existing site, in some cases the following message may appear:

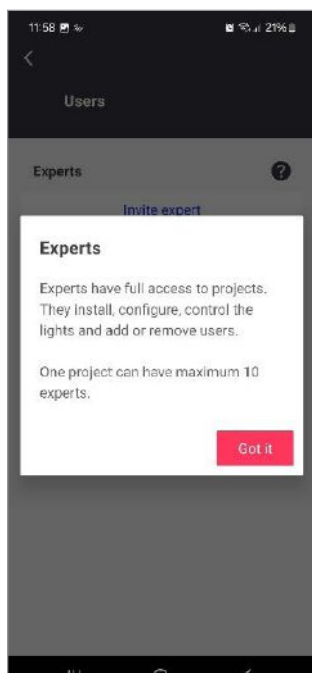
“Firmware updates available.”

Do **NOT** select [Update]. Select [Later] instead.

During a firmware update, commissioning is not possible.

Note: Do NOT use the button [Gateway], as the WFD G2 system exclusively uses Bluetooth for commissioning.

3.5 Users



This item gives an overview of the people (users) that have access to a defined site. Also, here you can add and remove users from the project.

A maximum of **ten (10) users** can be assigned to a project. Everyone with an account can be invited, and all these users have full access to change and update the site. These users are indicated as 'experts.'

It is suggested all invited experts must be thoroughly trained in the use of this app to prevent unintended actions.

3.6 Inviting an Expert



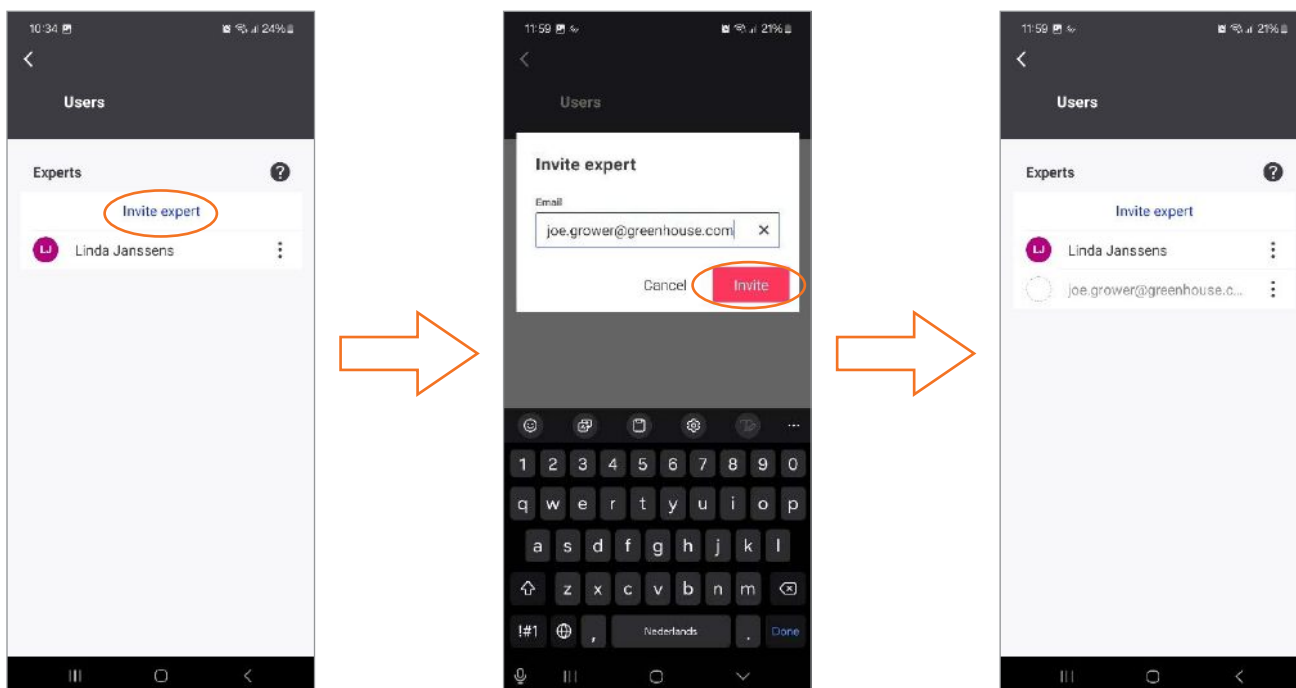
Attention

All invited experts must be thoroughly trained in the use of this app to prevent unintended actions.

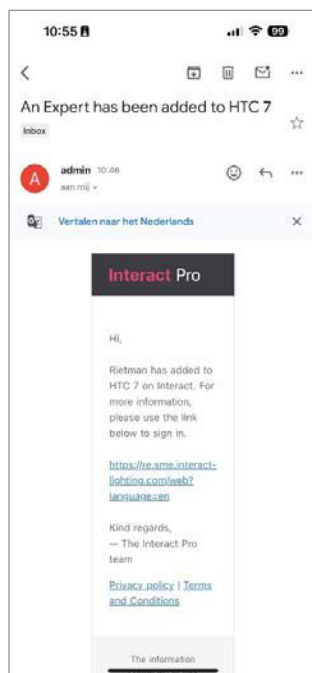
The expert needs to have an active account to be invited.

Select the blue text [Invite expert]. Fill in the email address of his/her Horticulture app-account, then select the red button [Send Invitation].

The invitation will be sent to this expert, and this person will have full access to the site.



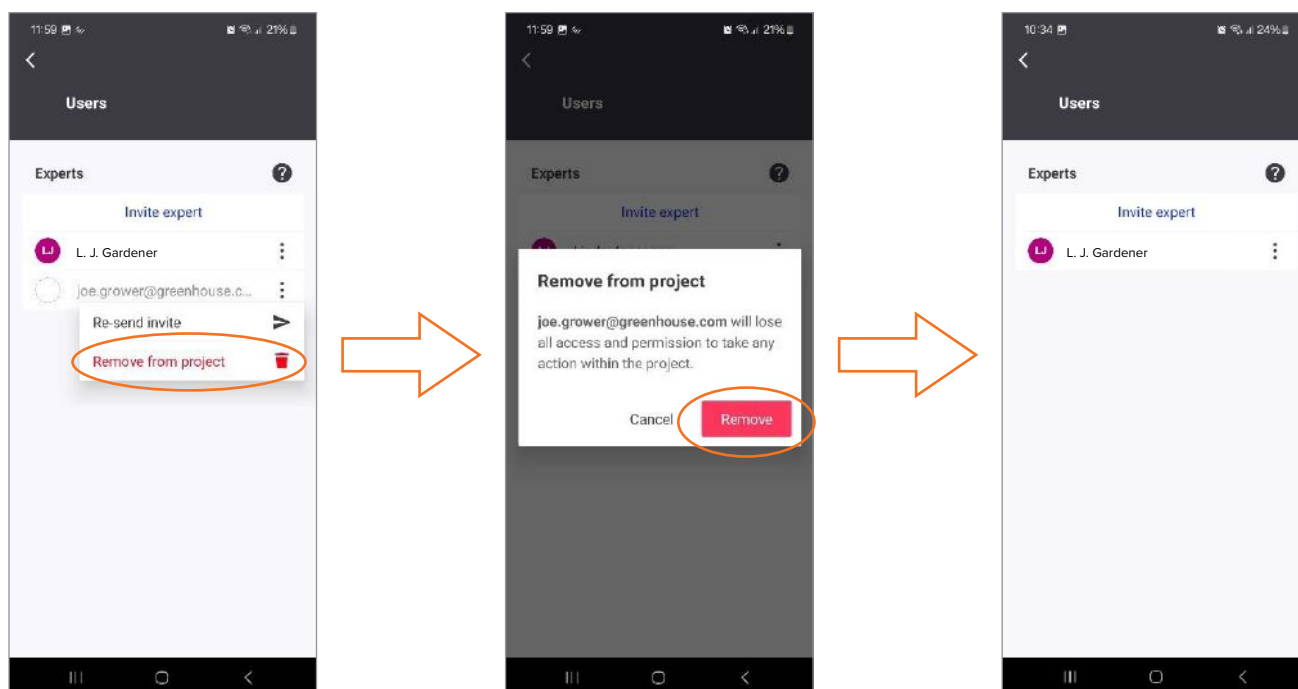
3.6 Inviting an Expert (Cont.)



When the invitation is sent, all existing experts will receive an email indicating that the invitee has been added to the project:

An expert also can be removed from a project.

To do so, Select the three dots on the right side of the persons name. Then Select the red text [Remove from project] and confirm this in the next screen by selecting the red button [Remove].



In case ten (10) experts are on the list, you must remove one before you can add a new one.



Attention

A site must have at least one expert. This (one) expert cannot be deleted from the site.

4. Commissioning

4.1 Setup

The Setup tab is used for commissioning.

Creation of networks and groups can be done off-site.

Adding luminaires – wireless or with a Wireless Flex Dimming G2 Receiver Dongle - and one Wireless Flex Dimming G2 Transmitter Dongle to a group should be done at location as this requires Bluetooth. In other words, the luminaires and Wireless Flex Dimming G2 Transmitter Dongle must be within range of the Bluetooth signal of the phone.

During commissioning, it is necessary that the luminaires can be powered manually (via breakers or switches).

4.2 Naming

The name of the networks and groups should be meaningful and refer to their location in the greenhouse. This is essential for servicing and replacement of defective luminaires.

The name of the network and the related group can be identical.

4.3 The Wireless Flex Dimming G2 Transmitter Dongle

During commissioning, the Wireless Flex Dimming G2 Transmitter Dongle needs to be powered:

1. A Wireless Flex Dimming G2 Transmitter Dongle that is not (already) assigned to a group can be found by the app, thus can be assigned to a new group.
2. A Wireless Flex Dimming G2 Transmitter Dongle that is assigned to a group will not be detected by the app.

The app only allows one (1) Wireless Flex Dimming G2 Transmitter Dongle to be assigned to a group.



Attention

Since un-assigned Wireless Flex Dimming G2 Transmitter Dongles are visible to the app, it is strongly advised to **ONLY** power the Wireless Flex Dimming G2 Transmitter Dongles that is intended to be assigned to the related group of lamps.

Powering the Wireless Flex Dimming G2 Transmitter Dongle can be done by mounting it to its connector at the moment of commissioning. Wait 10 seconds before this Wireless Flex G2 Transmitter Dongle becomes visible for the app.

After this Wireless Flex Dimming G2 Transmitter Dongle has been assigned to a group, it can remain connected.

4.4 Creating a Network

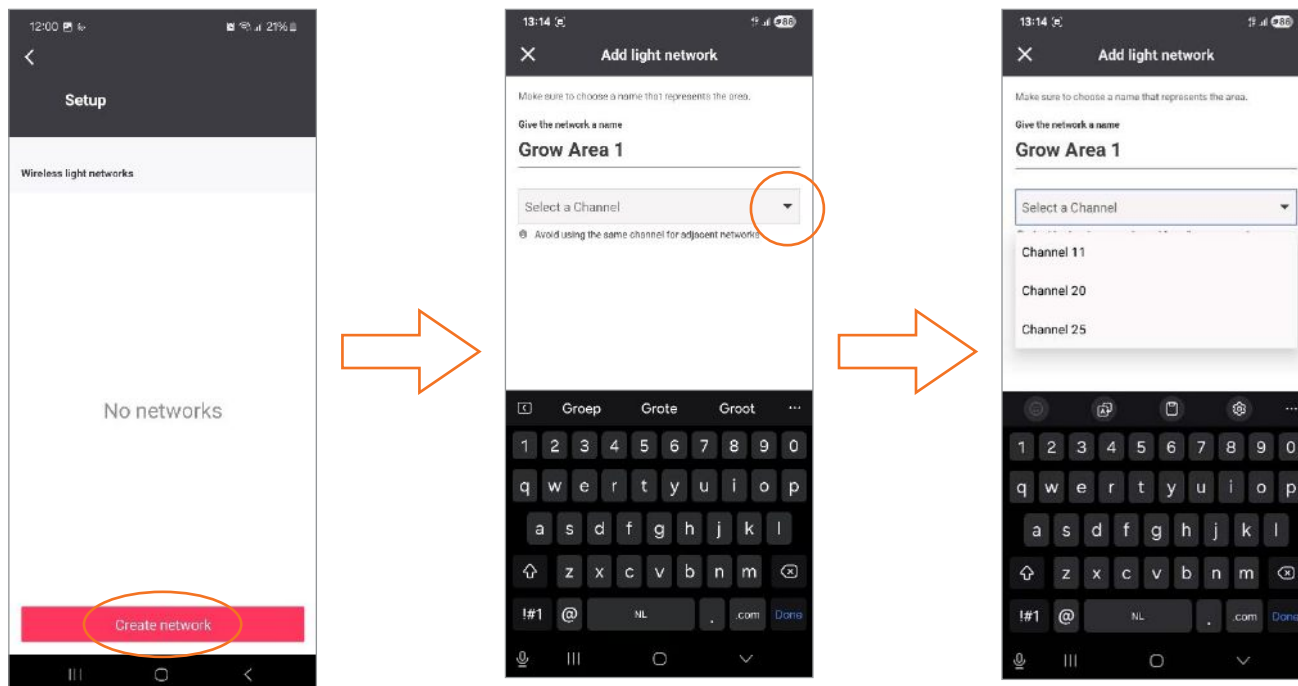


Attention

Only one group can be assigned to one network. A network may contain up to 199 luminaires and up to one Wireless Flex G2 Transmitter Dongles.

To create a network, select the button [Create network].

The following screen appears:



Select [Create network]

Give the network a descriptive name.

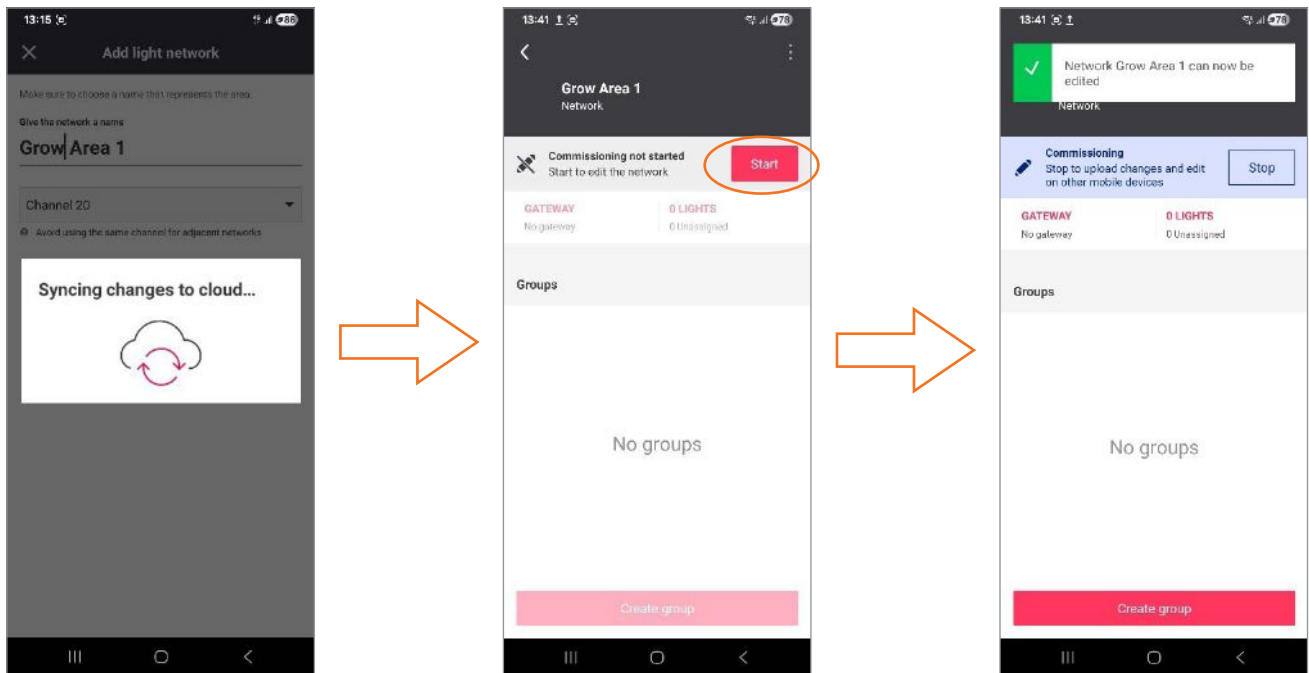
Select a communication channel for this network from the pull-down menu. You can choose from 3 Zigbee channels: Channel 11, Channel 20, and Channel 25.

Select one of these channels and make sure the adjacent network uses a different channel. The latter is necessary to minimize interference between adjacent networks.

After selecting [Done] on the keypad, the app will synchronize to the cloud and go to the next screen.

4.4 Creating a Network (Cont.)

After selecting [Done] on the keypad, the app will synchronize to the cloud and go to the next screen.



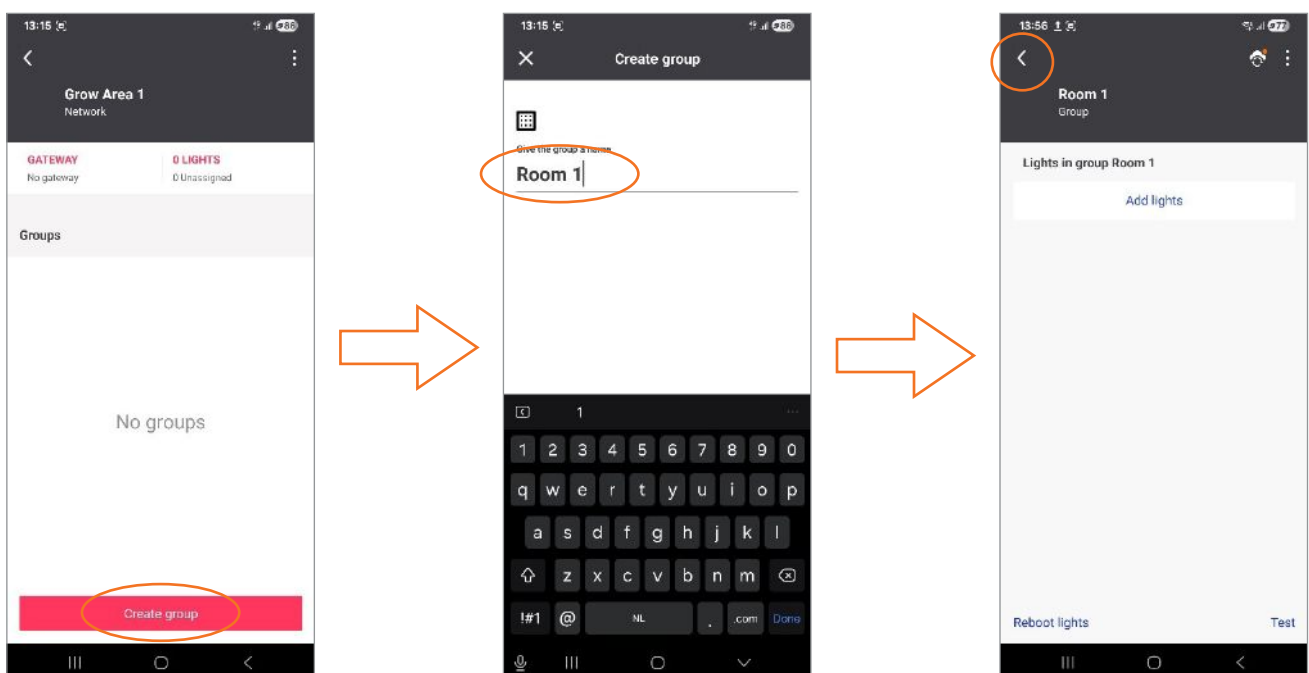
4.5 Creating a Group



Attention

A group may contain up to 199 luminaires and one (1) Wireless Flex Dimming G2 Transmitter Dongles.

Create a group in a network. Select the button [Create group] to open the following screen:



4.5 Creating a Group (Cont.)

Give the group a transparent name.

Then select [enter] and the group will appear in the list.

If you want to rename a group, then swipe the name to the left and select the three dots. Then use [Rename group] to change its name.



Attention

Each network should contain only ONE (1) group.

4.6 Adding Luminaires and Wireless Flex Dimming G2 Transmitter Dongle to a Group

This part needs to be done inside the compartment of a site.

Ensure Bluetooth is enabled on your phone. The luminaires and Wireless Flex Dimming G2 Transmitter Dongle to be assigned need to be within range of the Bluetooth signal (~25m/80 ft). Carefully follow the next steps in sequence:

1. Make sure that all luminaires are switched off (via the breakers) before starting the commissioning process.
2. Wait for 5 minutes to make sure that the transceivers inside the luminaires are not working any more.
3. Connect and power the Wireless Flex Dimming G2 Transmitter Dongle of the group you want to assign.
4. Use the app. Go to the Group.
5. In the specified group, select the button [+ Add lights]. The app will start scanning for the Wireless Flex Dimming G2 Transmitter Dongle.
6. Select [Add] to add the Wireless Flex Dimming G2 Transmitter Dongle. A green indicator will appear to confirm the Wireless Flex Dimming G2 Transmitter Dongle has been successfully added.
7. ONLY switch on the luminaires that need to be assigned to a specified group/network.
8. Use the app. In the specified group, select the button [+ Add lights]. The app will start scanning for luminaires that are not yet assigned. This may take several minutes.
Double check if the actual number of luminaires matches the number found by the app.
9. When all luminaires are found press [Done].
10. When not all luminaires have been found, Select the text [Cannot find all luminaires], then select the red button [Understood]. Scanning will restart.
Tip: it might help to change your location in the compartment to improve the reception of the Bluetooth signal.
11. To check if the luminaire you want to assign is the correct one, select the luminaire symbol on the left side next to the indicated luminaire indicator. The luminaire will flash (on and off) several times.

4.6 Adding Luminaires and Wireless Flex Dimming G2 Transmitter Dongle to a Group (Cont.)

12. Select the red text [Add] on the right side of the luminaire indicator to add it to the group.
A green mark will appear to confirm the luminaire has been successfully added.
 - a. To add the whole list of luminaires, Select the text [Select] in the upper right corner of this list. A tick box will appear. By selecting this tick box, all luminaires can be added simultaneously.
Then select [Done] to finish.
13. Go back to the previous menu by selecting the [<] symbol. The app now will start synchronizing the group with the cloud.
14. Switch off the power of this group, as its commissioning has finished. Go to the next group and repeat steps 3 to 9 until all groups have been assigned.



Attention

A powered Wireless Flex Dimming G2 device indicates its status by a flashing LED on top of the casing:

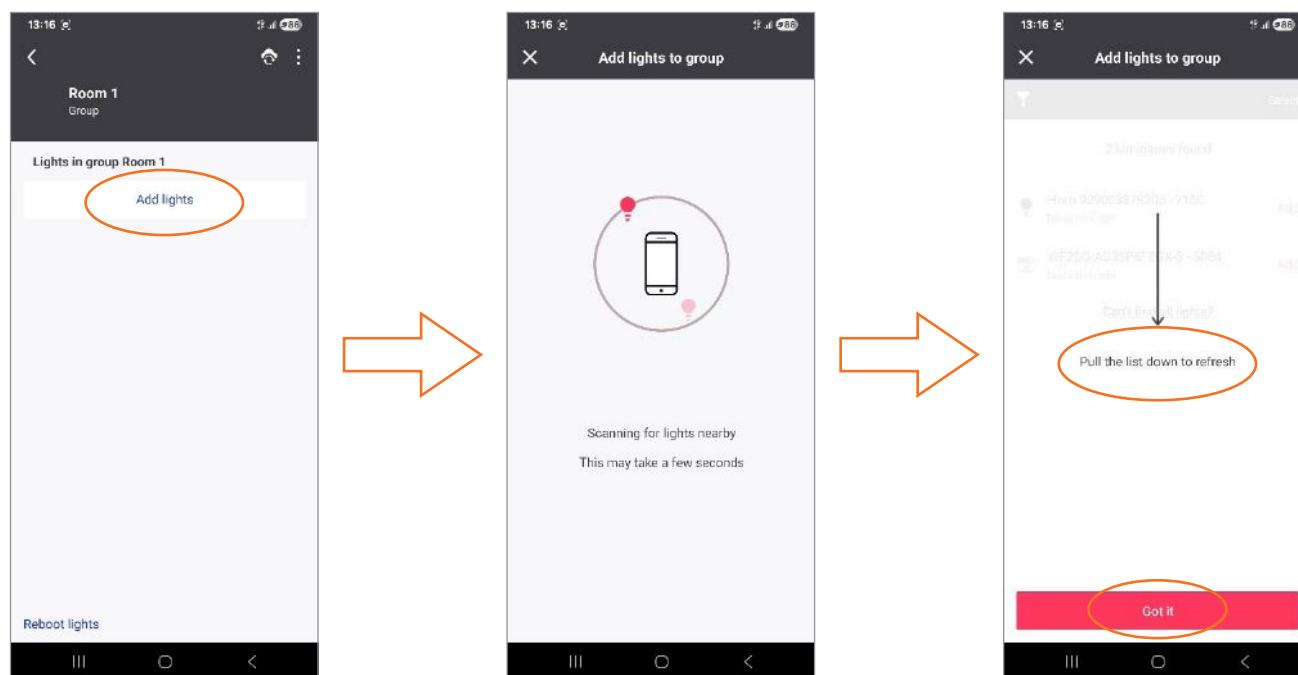
- When a Wireless Flex Dimming G2 device is not yet assigned to a group, it will blink at a high rate (~5 times per second).
- When a Wireless Flex Dimming G2 device is assigned ('commissioned'), it will blink at a slow rate (~1 time per second.)



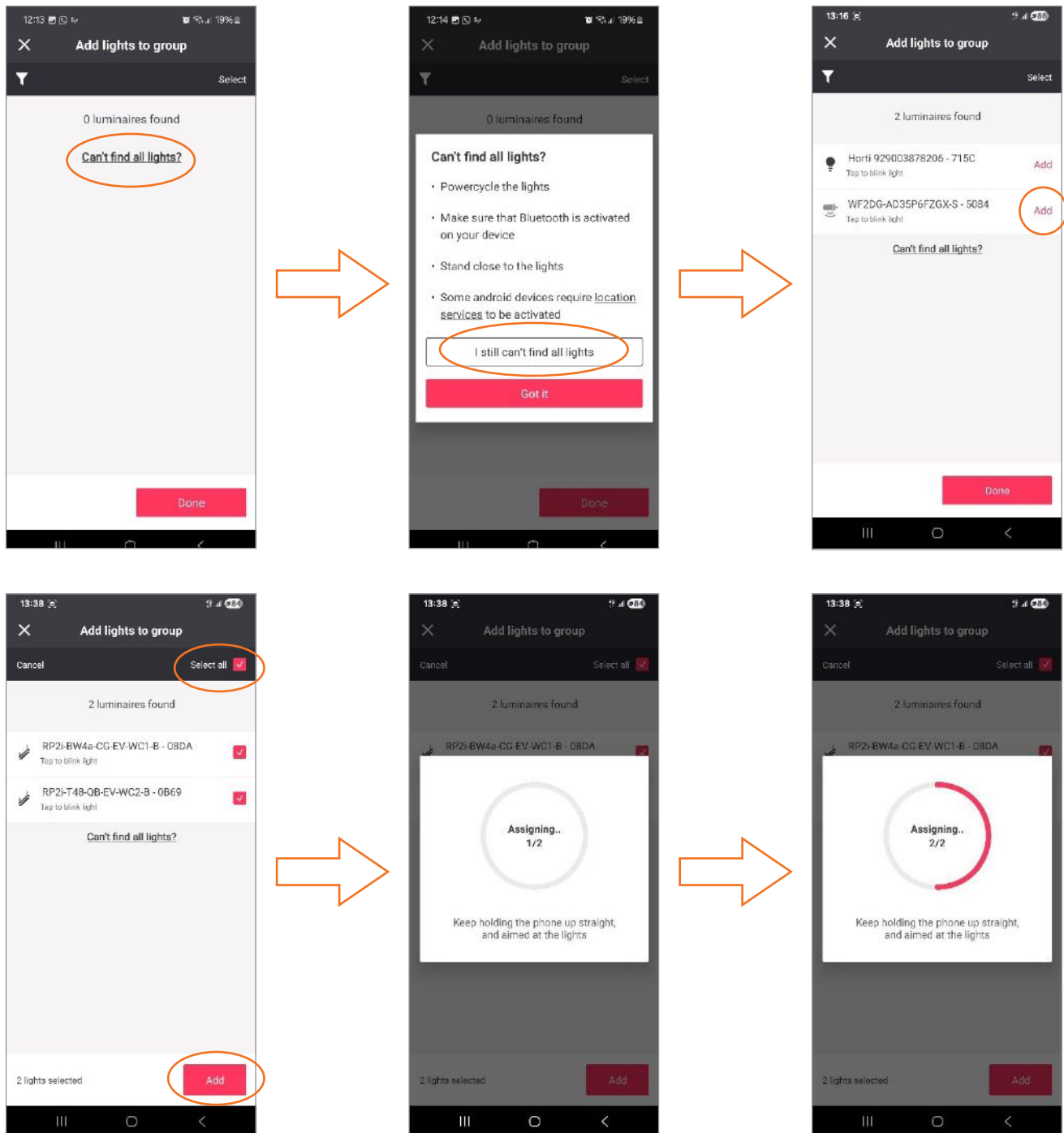
Attention

If a luminaire cannot be found during assignment of a group, make sure the power of that group is switched off for at least 5 minutes before switching on the successive group for assignment. This is necessary to avoid this missing luminaire to be assigned to the wrong group.

If after several attempts the luminaire still cannot be found, please contact Fluence.



4.6 Adding Luminaires and Wireless Flex Dimming G2 Transmitter Dongle to a Group (Cont.)

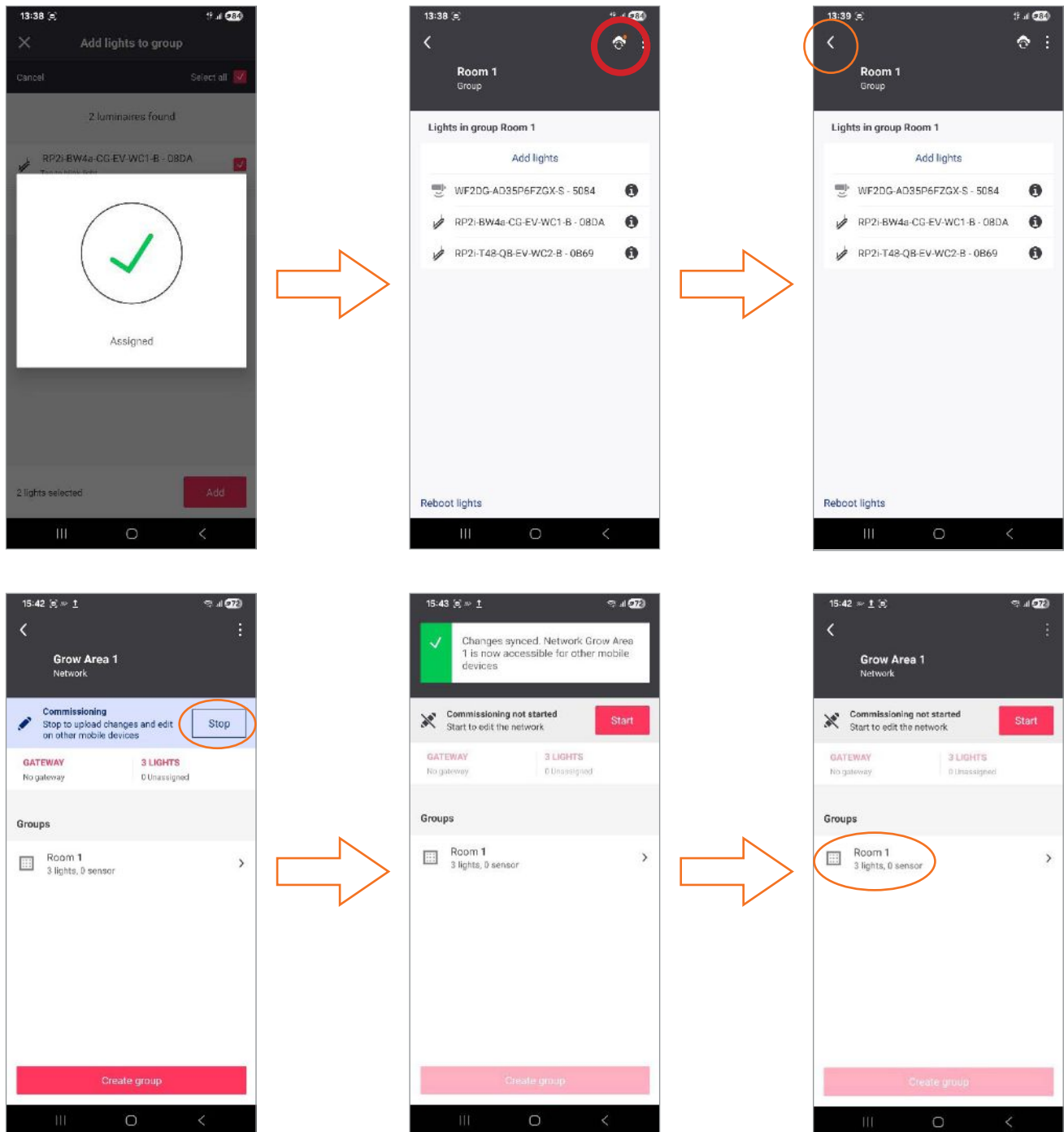


Attention

The 'Select All' function does not work when the Wireless Flex Dimming G2 Transmitter Dongle is in the list of luminaire indicators.

First add the Wireless Flex Dimming G2 Transmitter Dongle separately, then add the group of luminaires separately using the 'Select All' checkbox.

4.6 Adding Luminaires and Wireless Flex Dimming G2 Transmitter Dongle to a Group (Cont.)



Attention

After commissioning **DO NOT FORGET** to select [Stop] to end the commissioning mode.

This will both synchronize the network and make it accessible for other users. When the group is out of the commissioning mode, this group can be (re)viewed, but changes cannot be made to this group.

4.7 Blink- and Test Function

The app has two functions that are helpful for checking correct commissioning of groups:

- **A blink function**
This is used to locate individual luminaires by blinking the light, so the correct luminaires are commissioned to or removed from the groups.
- **A test function**
With this function, you can switch on- and off a complete commissioned group. It is especially useful to check if you missed some lamps during commissioning, as they will not respond to the command.

The Blink Function

The blink function can be activated for non-commissioned and commissioned luminaires.

1. Enable Commissioning Mode.
2. Go to group.
3. Add lights.
4. Tap on a found luminaire (symbol or name). The indicated luminaire in the greenhouse will blink several times. You can decide to add or skip this one.
5. Once commissioned, you can tap on the luminaire (symbol or name) to check if the correct luminaire is part of the group.

The Test Function

The test function works only for commissioned luminaires.

1. Enable Commissioning Mode.
2. Go to group.
3. Add lights.
4. (blink to confirm the correct luminaire)
5. Add the luminaire.
6. Select [Test]. A new screen appears. All luminaires of the group are lit per default.
7. Select [On] in the red circle. The luminaires belonging to the group are switched off.
8. If a luminaire is not responding to this test function, it is likely not commissioned to the group

4.8 Remove Luminaires or Wireless Flex G2 Transmitter Dongle

To remove a luminaire or a Wireless Flex Dimming G2 Transmitter Dongle via the app, the devices must be powered, since its Bluetooth signal must be active.



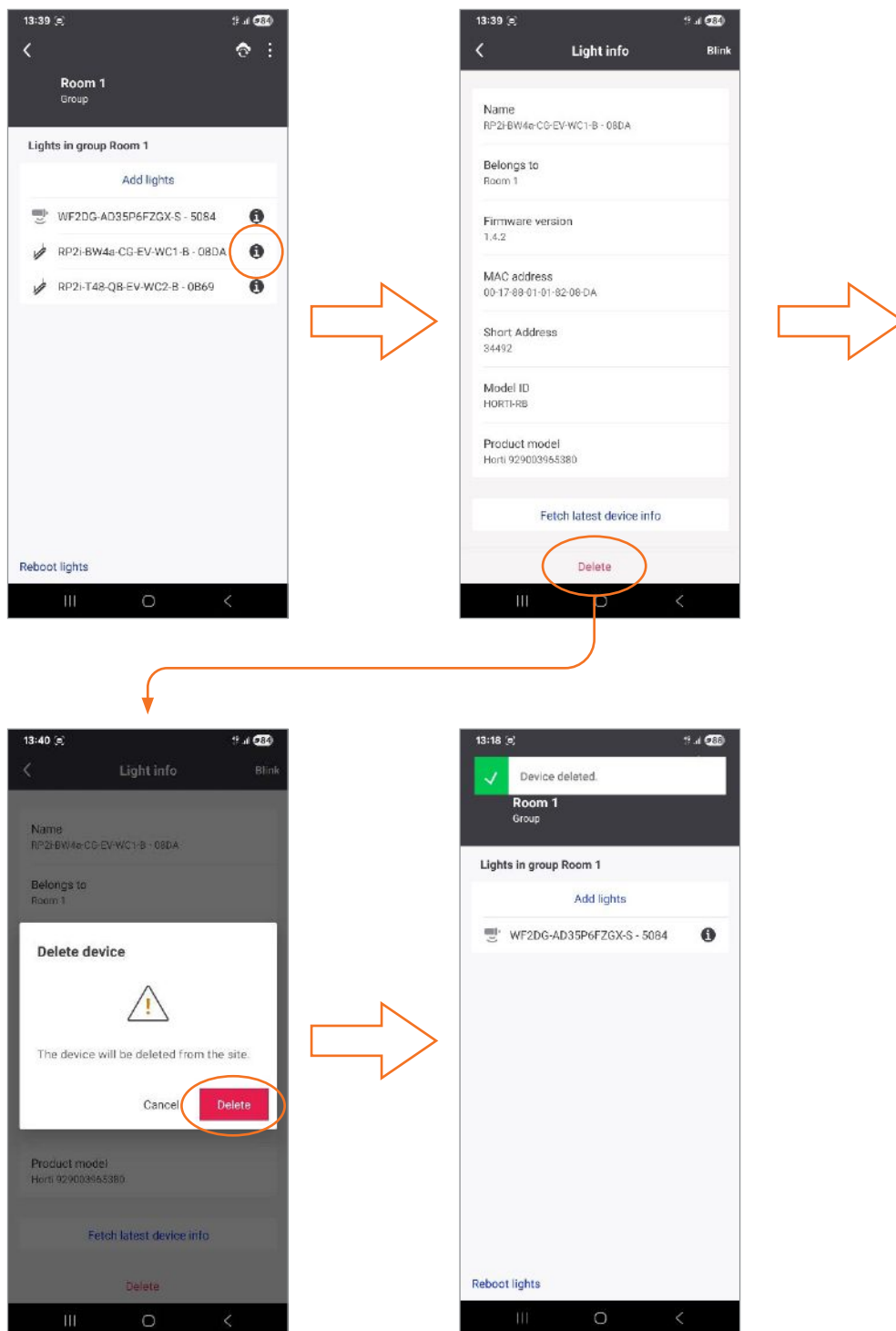
Attention

Do not work in parallel while assigning and removing luminaires or Wireless Flex Dimming G2 Transmitter Dongles. It is best to have only one person commissioning!

A luminaire or Wireless Flex Dimming G2 Transmitter Dongle that has been removed is available for assignment immediately; therefore, it can be assigned to a wrong group.

- Select the network, then select the group from which the luminaire or Wireless Flex Dimming G2 Transmitter Dongle must be removed.
- Search for the correct luminaire indicator or Wireless Flex Dimming G2 Transmitter Dongle to be removed (for luminaire, there is a blink function).
- Push the information dot on the right side of the selected luminaire indicator or Wireless Flex Dimming G2 Transmitter Dongle.
- Select [Delete]. The luminaire or Wireless Flex Dimming G2 Transmitter Dongle is now removed and ready to be assigned to a different group, network, or site.

4.8 Remove Luminaires or Wireless Flex G2 Transmitter Dongle (Cont.)



4.9 Forced Reset

You can force a hard reset of a commissioned Wireless Flex Dimming G2 Transmitter Dongle by keeping a magnet in the close proximity of the adapter body at the indicated position in the picture for about 10 seconds.



If the reset is successful, the indicator status LED will change the blinking frequency from slow to fast rate.

It is advisable only to use this reset method in case the app cannot be used.

- When the Wireless Flex Dimming G2 device is removed using the magnet it will remain visible in the group in the Interact Horticulture app.
- If the Wireless Flex Dimming G2 device is assigned again after magnetic reset in a different group in the same network, the reset device cannot be found, therefore cannot be commissioned.
- The reset Wireless Flex Dimming G2 device remains visible in the original group.
- If the Wireless Flex Dimming G2 device is assigned again after magnetic reset in a group of a different network, the reset Wireless Flex Dimming G2 device is visible and open to commissioning in a group of this different network. And – after commissioning – it will disappear from the original assigned group.

This option can be useful in case the Wireless Flex Dimming G2 device can't be found in the app, otherwise the regular way of decommissioning via the app is preferred.

4.10 Site Details

In this part of the app, you can change the details of the greenhouse site. Select the arrow [>] to enter the tab Site Information. Here you can change:

- The logo of the site. Select the logo and replace it with a picture.
- The site name. Select the arrow to change the name.
- The time zone. Select the arrow to change time zone.

Via the tab [Individual details] it is possible to check and change location information.

4.11 Site Updates

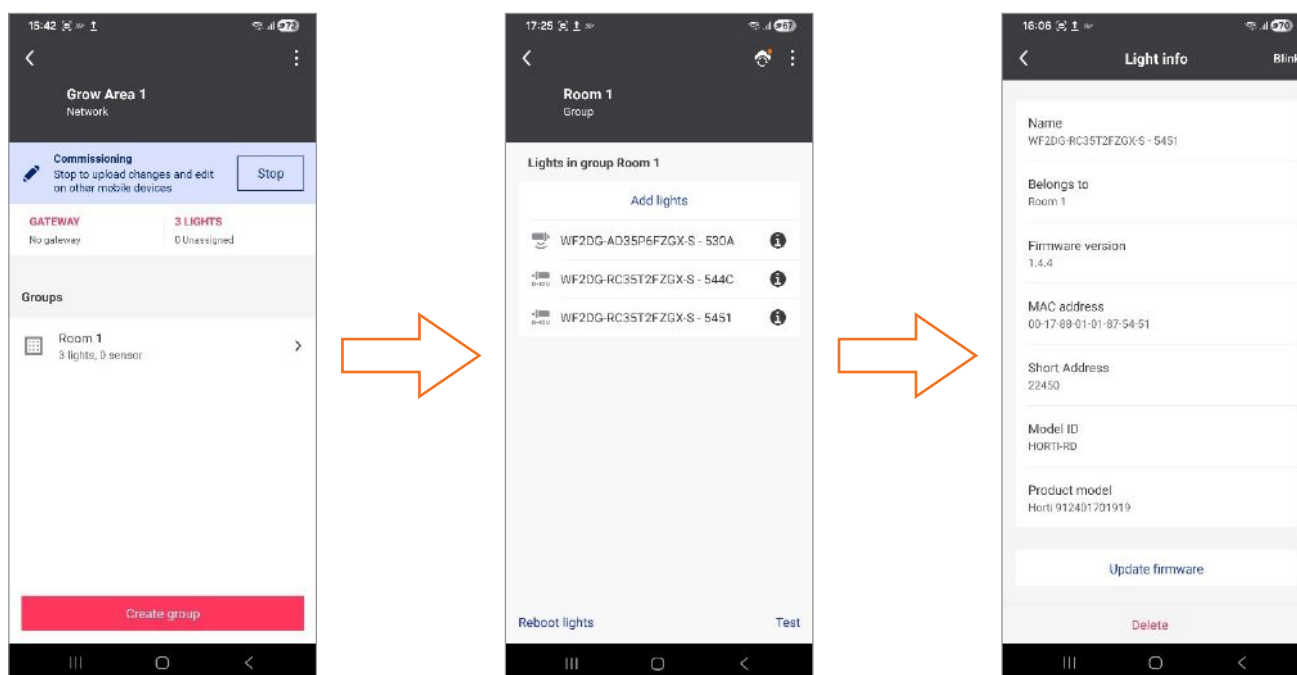
This function is not available for this application.

4.12 Light Updates Info

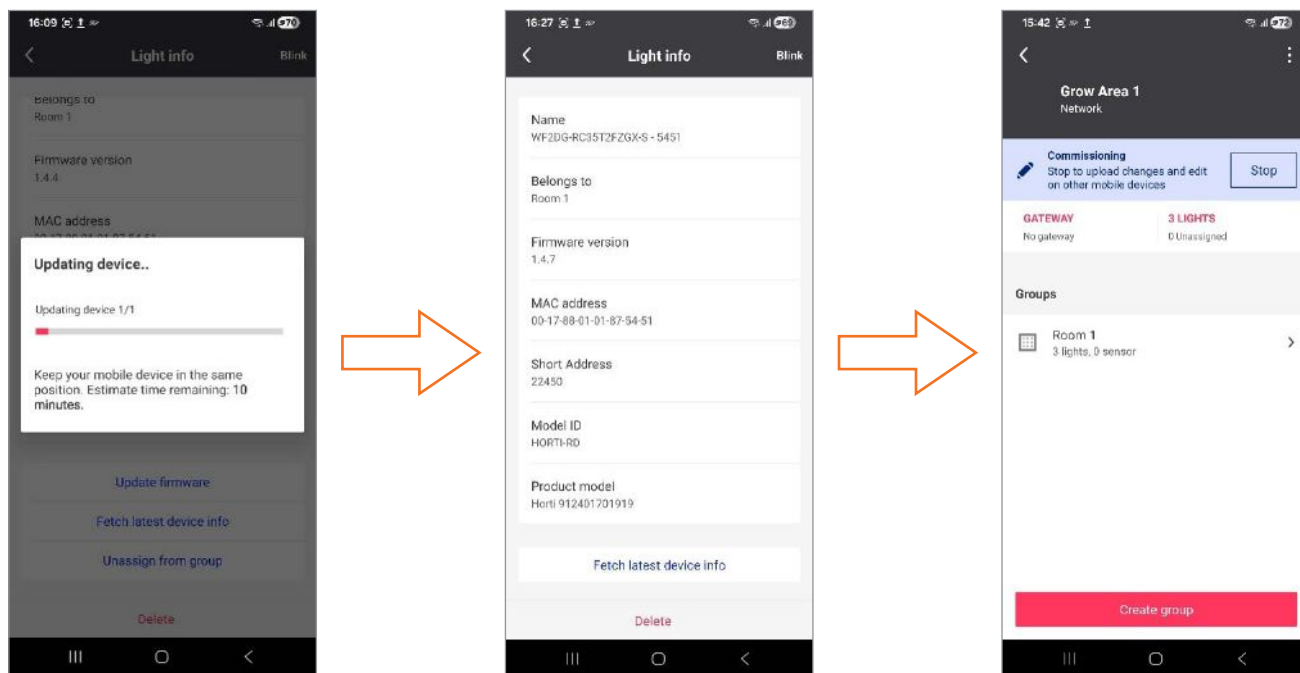
In case updates are necessary, this can be done 'over the air' via the mobile device with Bluetooth connection.

Updating lights is a slow process, and only up to six devices can be updated at one time. Therefore, if there is no urgency (system is working without issues) it is best to prevent updates.

1. Updating can only be done in Commissioning Mode.
2. Enable Commissioning Mode.
3. Go to group.
4. Open group and select the light.
5. (blink to confirm the correct luminaire)
6. Select the black info dot right next to the luminaire.
7. Select 'update firmware'.
8. After update, go back to the network screen and select 'Stop'.



4.12 Light Updates Info (cont.)



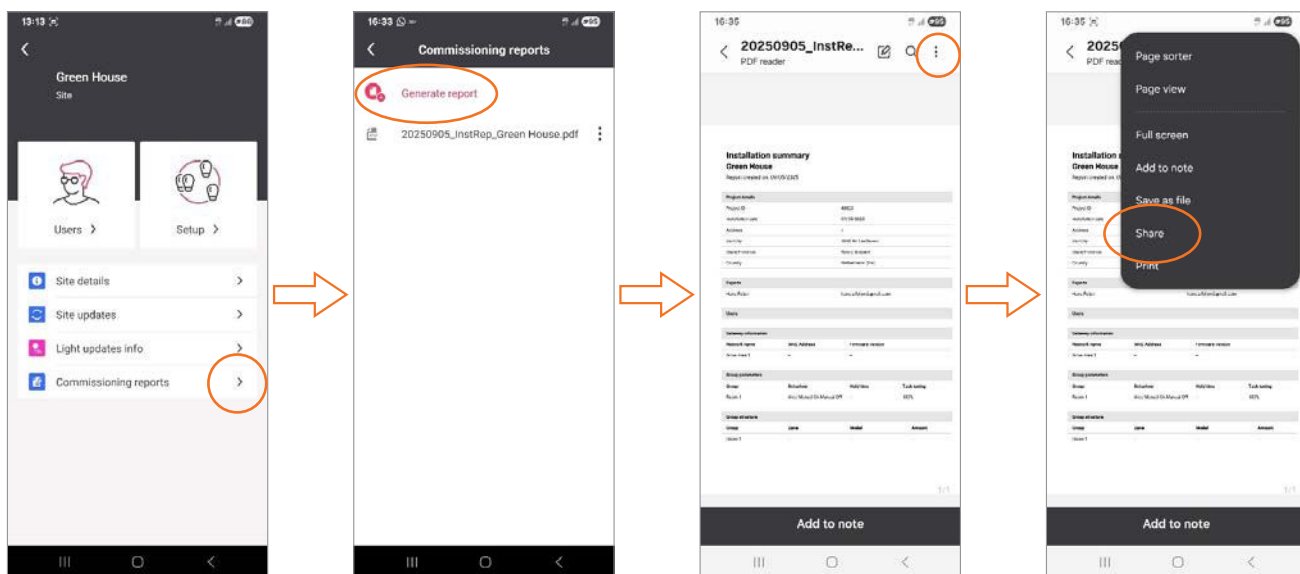
4.13 Commissioning Reports

A report can be created for the complete project.

Select [Commissioning reports] and select the text [Generate report].

The report is created automatically with a date code; the latest version is on top.

Via the three dots on the right, next to the report name, you can download it as a pdf-file.

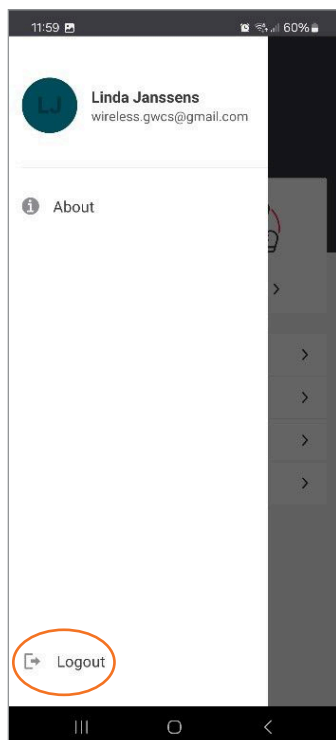


By selecting the report name, you open the report and view its content. In the report, by selecting the three dots in the upper right corner, you open the menu to download, print or share the document.

Reports can be generated at any time, however, they cannot be removed from the list.

4.14 Log Out

Logging out can be done either from the overview screen with site names or from the main menu:



- Swipe the screen from the left to the right.
- Select [Logout]

The app is closed.

5. Servicing

The service engineer must have the app installed on their phone and the individual must have been assigned/invited to the project.

It is of vital importance that the project is well documented, and the service engineer is properly trained in using the app. (The app has no user permission limitations; all features are accessible).

5.1 Replacing a Luminaire or Wireless Flex Dimming G2 Receiver Dongle

After replacing a defective luminaire or Wireless Flex Dimming G2 Receiver Dongle, a new one must be assigned to the group.



Attention

Replace luminaires or Wireless Flex Dimming G2 Receivers one group at a time.

Multiple luminaires only can be replaced and assigned at the same time if they belong to the same group.

In case of a defective luminaire in combination with a good Wireless Flex Dimming G2 Receiver Dongle:

1. Remove the Wireless Flex Dimming G2 Receiver Dongle from the luminaire.
2. Replace the defective luminaire.
3. Re-install the Wireless Flex Dimming G2 Receiver Dongle from the luminaire.

In case of a defective Wireless Flex Dimming G2 Receiver Dongle in combination with a good luminaire:

1. Remove the defective Wireless Flex Dimming G2 Receiver Dongle
2. Install a new Wireless Flex Dimming G2 Receiver Dongle on the luminaire.
Power the luminaire. The new Wireless Flex Dimming G2 Receiver Dongle will start blinking fast.
3. Check the 4-digit code that is placed under the QR code on the label of the defective Wireless Flex Dimming G2 Receiver Dongle.
4. Open the app on your phone and go to the project.
5. Go to the group of which this Wireless Flex Dimming G2 Receiver Dongle is assigned to.
6. Find the Wireless Flex Dimming G2 Receiver Dongle from the list that uses the same 4-digit code as found in step 3.
7. Delete this Wireless Flex Dimming G2 Receiver Dongle from the group, using the [Delete] button.
8. Select [←] to return to the group. Then select [Add lights].
9. The new Wireless Flex Dimming G2 Receiver Dongle will appear. Add this Wireless Flex Dimming G2 Receiver Dongle to the group.
10. Check if the Wireless Flex Dimming G2 Receiver Dongle is added, the LED on the Wireless Flex Dimming G2 Receiver Dongle will indicate blinking slow.

5.1 Replacing a Defective Luminaire or Wireless Flex Dimming G2 Receiver Dongle (cont.)

In case of a defective luminaire with built-in receiver (e.g., RAPTR 2):

1. Replace the defective luminaire(s).
2. Open the app on your phone and go to the project.
3. In the app, go to the group to which the new luminaire(s) needs to be assigned.
4. Select [Add lights]. The app now starts scanning for new luminaires, discovered luminaires can be identified by making them blink.
5. Add the new luminaire(s) to the group.
6. Check if the new luminaire is working correctly.

The defective luminaire – if identified – can be removed from the app using the information button next to it. Choose to remove it.

5.2 Replacing a Defective Wireless Flex Dimming G2 Transmitter Dongle

In case of a defective Wireless Flex Dimming G2 Transmitter Dongle:

1. Remove the defective Wireless Flex Dimming G2 0-10V.
2. Install a new Wireless Flex Dimming G2 Transmitter Dongle. The new Wireless Flex Dimming G2 Transmitter Dongle will start blinking fast.
3. Check the 4-digit code that is placed under the QR code on the label of the defective Wireless Flex Dimming G2 Transmitter Dongle.
4. Open the app on your phone and go to the project.
5. Go to the group of which this Wireless Flex Dimming G2 Transmitter Dongle is assigned to.
6. Find the Wireless Flex Dimming G2 Transmitter Dongle from the list that uses the same 4-digit code as found in step 3.
7. Delete this Transmitter Dongle from the group, using the [Delete] button.
8. Select [<] to return to the group. Then select [Add lights].
9. The new Wireless Flex Dimming G2 Transmitter Dongle will appear. Add this Transmitter Dongle to the group.
10. Check if the Wireless Flex Dimming G2 Transmitter Dongle is added, the LED on the transmitter will indicate blinking slowly.

6. Frequently Asked Questions

- Q1.** What must I do if I want to move my luminaires to another compartment?
- A1.** After commissioning the luminaires are linked to a Wireless Flex Dimming G2 0-10V Adapter, they only respond to the signals from this device.
Keep them together as a set.
In case the number of luminaires in the old and new compartment is different, it is advised to remove all luminaires and redo the commissioning process.
- Q2.** How can I see that a wireless luminaire that has no blinking indication, is commissioned?
- A2.** After commissioning of both the luminaire and the Wireless Flex Dimming G2 0-10V Adapter, the luminaire will follow the setting of the Wireless Flex Dimming G2 0-10V Adapter. E.g., in case the Wireless Flex Dimming G2 Transmitter Dongle is set to a light level of approximately 20% (input voltage on corresponding channel is ~2V), the luminaire will dim to that level within 100 seconds after it is added to the group.
- Q3.** How fast will a commissioned luminaire respond to a changed 0-10V input of the transmitter?
- A3.** Changes of input voltage will be transmitted instantly to the luminaire. However, a small lag may be experienced before the light changes to avoid sudden or continuous variations.

6. References

Title	Remarks
Wireless Flex Dimming G2 0-10V Application Guide	Describes the operation and installation of the Wireless Flex Dimming G2 Transmitter Dongle and Receiver Dongle



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