

## Matter - At a Glance

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## 1. General information

This document gives an overview of Tridonic Matter devices and explains how to commission a Tridonic Matter-ready device with the Apple or Google ecosystems. Apple and Google are the two ecosystems that have already been tested with Tridonic Matter devices.

### Important note:

The way Tridonic implements the matter standard follows the specifications of the [connectivity standards alliance](#). There are different ecosystems available.

- When selecting an ecosystem, make sure with the owner of the ecosystem that all the functionalities are available and usable.
- Functionalities should be tested in advance.

### What is Matter?



Matter is an open-source standard for connecting smart devices.

When using Matter, smart devices, mobile apps and cloud services are able to communicate and work together. This way, interoperability between ecosystems and smart devices manufacturers is enabled. As an open-source, Matter can be freely used by any company.

### What is Thread?

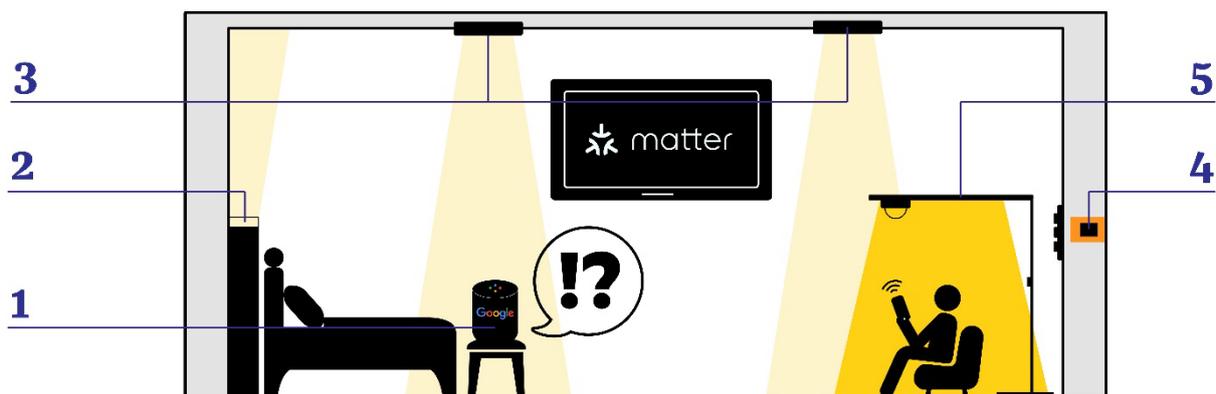
Thread is an IPv6-based, low-power mesh networking technology for Internet of things (IoT) products.

It eliminates the need for dedicating hubs/gateways. The resulting wireless mesh network consumes little power and enables direct access to the Internet and the cloud from any device.

The maximum number of connected devices is 250.

### What do you need to use Matter?

In general, it is really easy to build up a Matter system. In the following diagram, you will find the minimum required components to be able to do this:



- 1. Border router:** This device has the purpose of facilitating communication for Internet Protocol (IP) packets and technologies such as Wi-Fi or Ethernet into and out of a Thread network. Border routers that are used to create the infrastructure of a Thread network are also known as the ecosystem of a Matter system. Some available ecosystems provided by different brands are Apple TV 4K, Google Nest Hub (2<sup>nd</sup> Gen), SmartThings Hub, and so on.
- 2. Matter-ready linear luminaire:** This luminaire contains a Matter-ready constant voltage driver that connects through the Thread network and communicates with the border router. This way, it can be controlled through the smartphone app and via voice commands.
- 3. Matter-ready ceiling luminaire:** This luminaire contains a dimmable DALI-2 driver connected to a Wireless Matter module so this luminaire can also communicate via Thread.
- 4. Wireless passive module:** It is also possible to connect push buttons to Matter using this device.
- 5. Standalone Matter luminaire:** As shown in the infographics, this can also be useful for standalone luminaire applications. Containing the same devices as the ones described in point 2 to 4 above

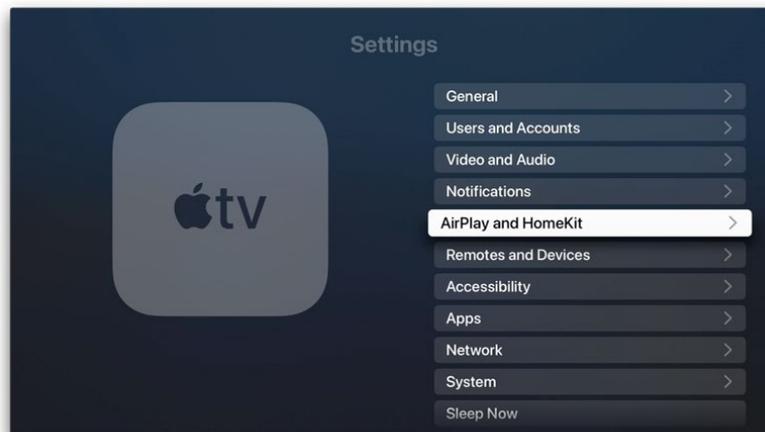
## 2. Commissioning using Apple ecosystem

Components needed for Matter with Apple:

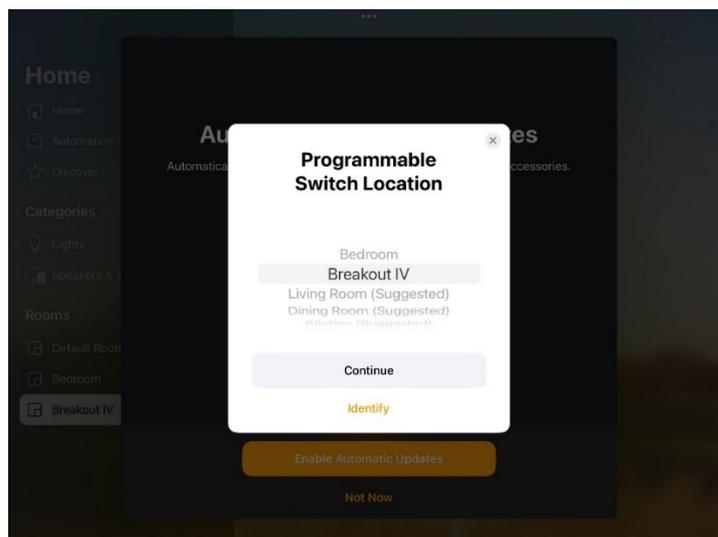
1. Router
2. Border router: Apple TV 4K
3. iPhone – iPad with iOS 16.x
4. Matter-ready devices

### Step by step

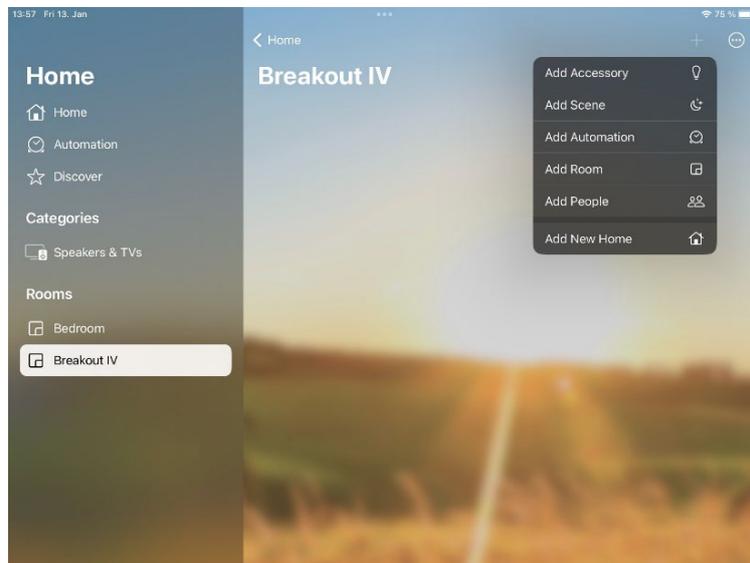
1. Make sure your router is connected and the network is strong and stable
2. Make sure your mobile is connected to the right network
3. Configure your account on your Apple TV 4K
4. Add a new room by clicking on “AirPlay and HomeKit” and follow instructions from Apple TV:



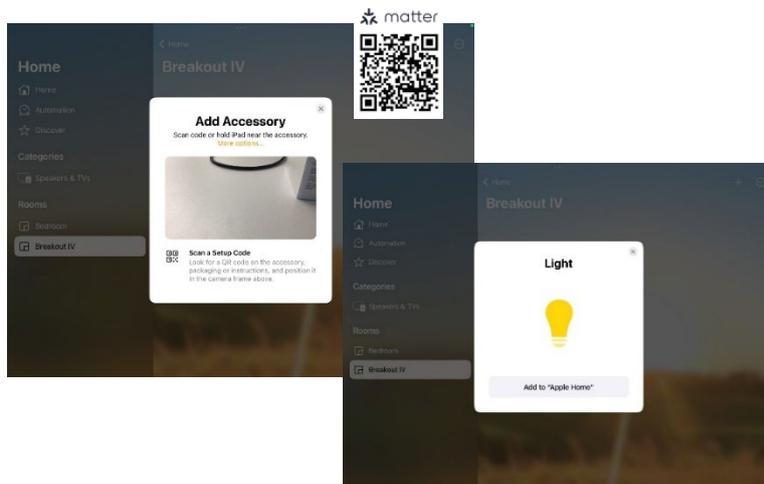
5. Go to iOS Home app and add the new room:



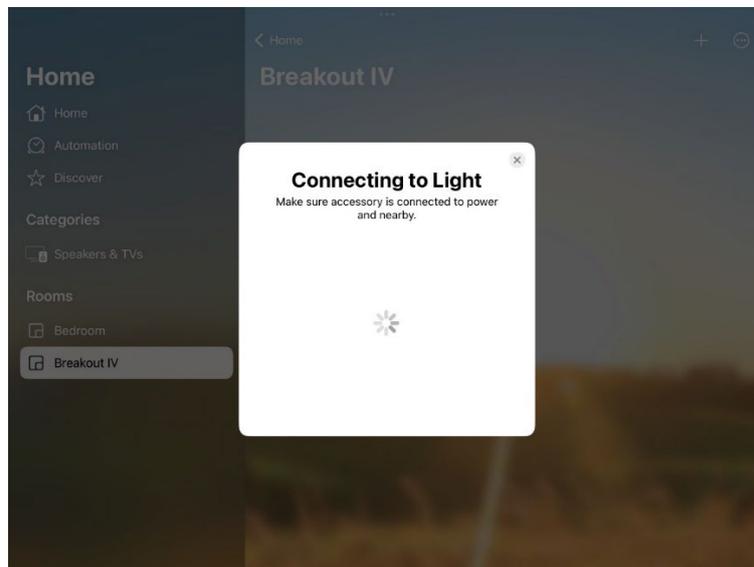
6. Turn on luminaire(s) and click on “Add Accessory”:



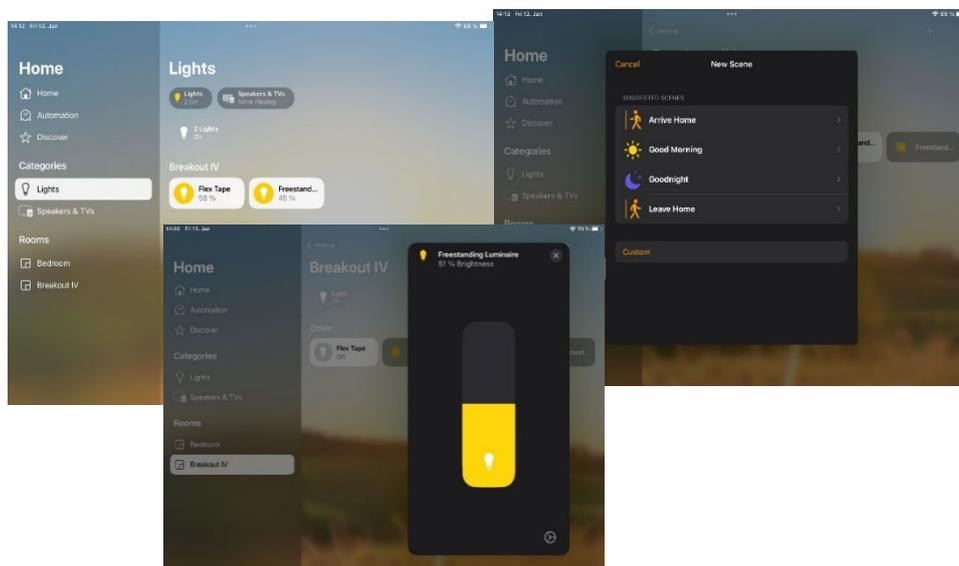
7. Scan the QR code and add luminaire:



8. Wait until the light is connected:

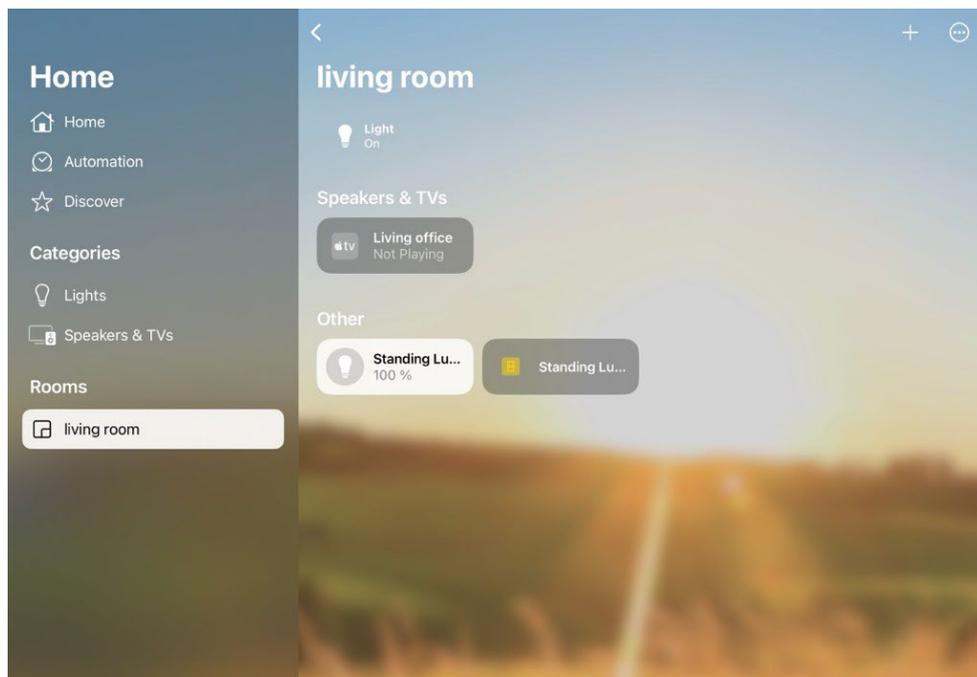


9. Now you can control luminaires, create groups, scenes, send voice commands, etc.:

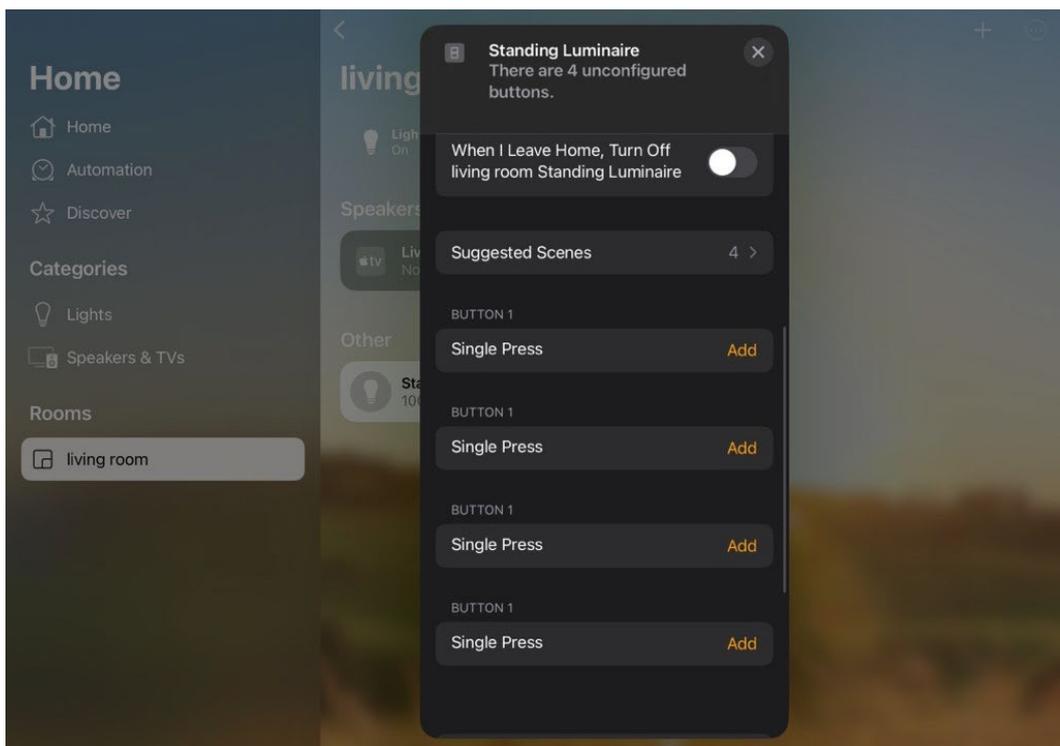


## Pushbutton functionality

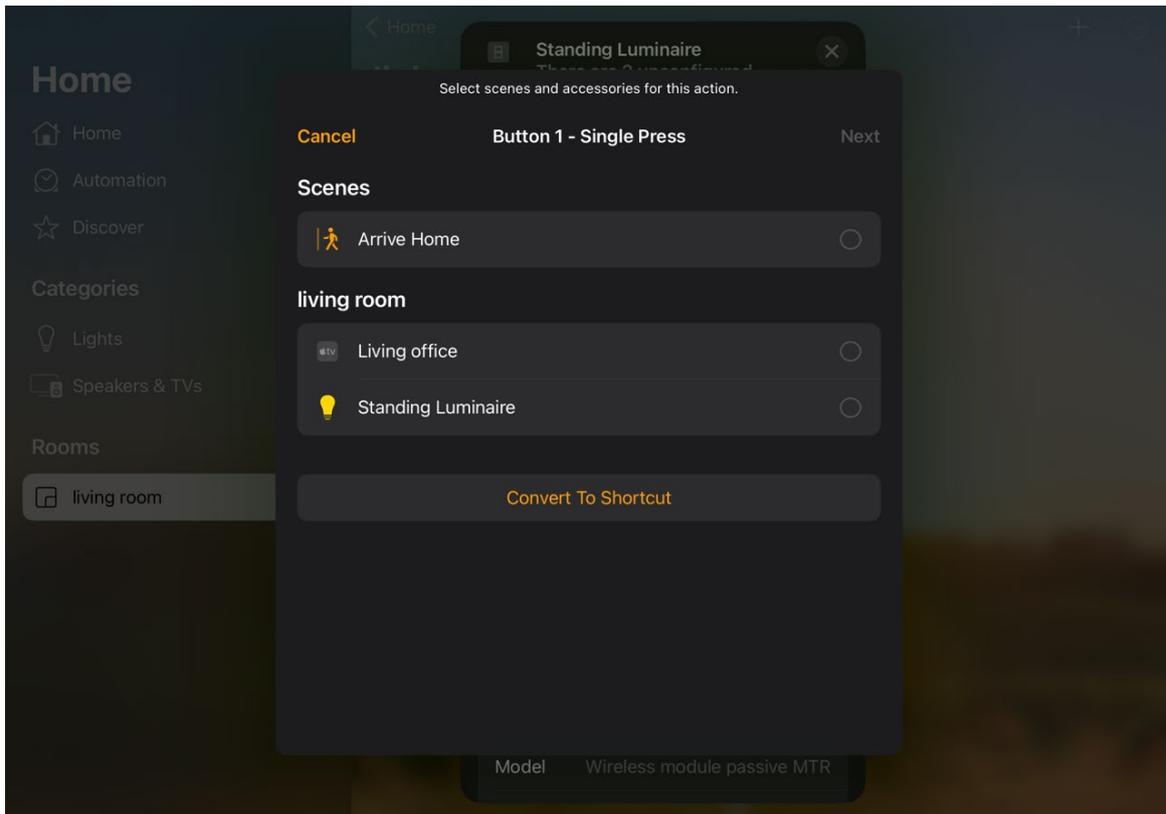
→ During the commissioning of the module, you will also see a message about the pushbutton functionality with the symbol   
This will be automatically added to the same room as shown in the following figure:



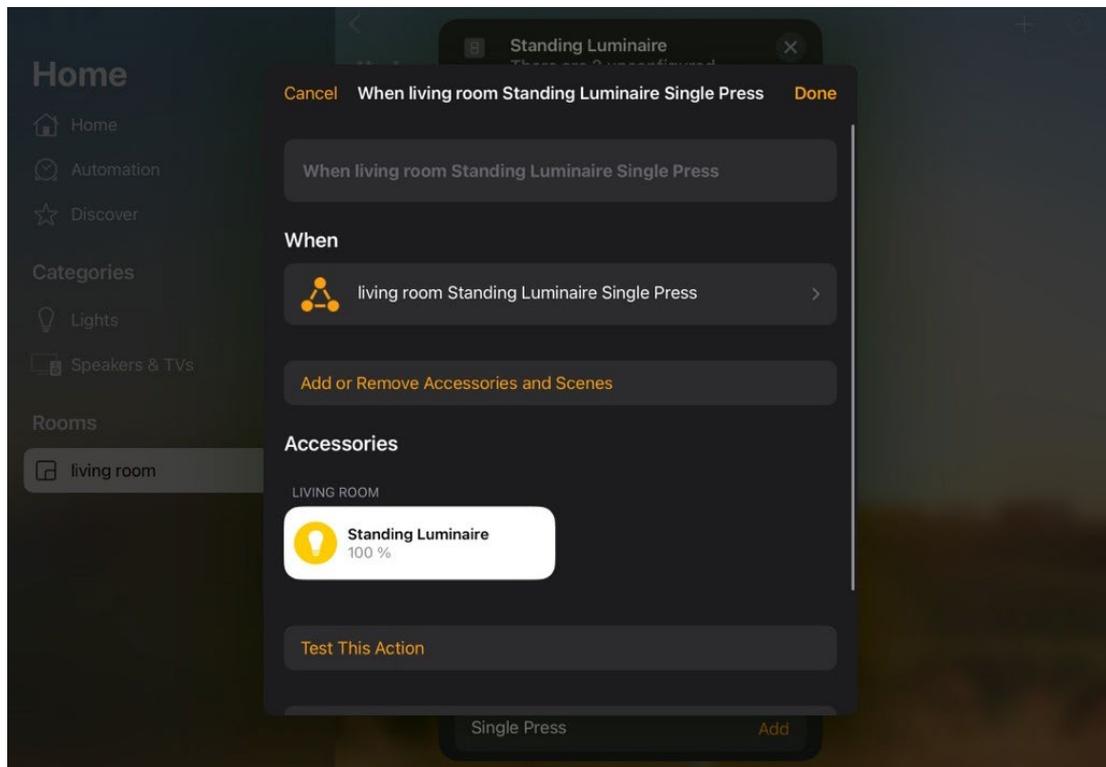
1. Click on the box with the symbol   
→ A new window “Standing Luminaire” will open.  
Here you have the different configurations that are available for pushbuttons “BUTTON 1”:



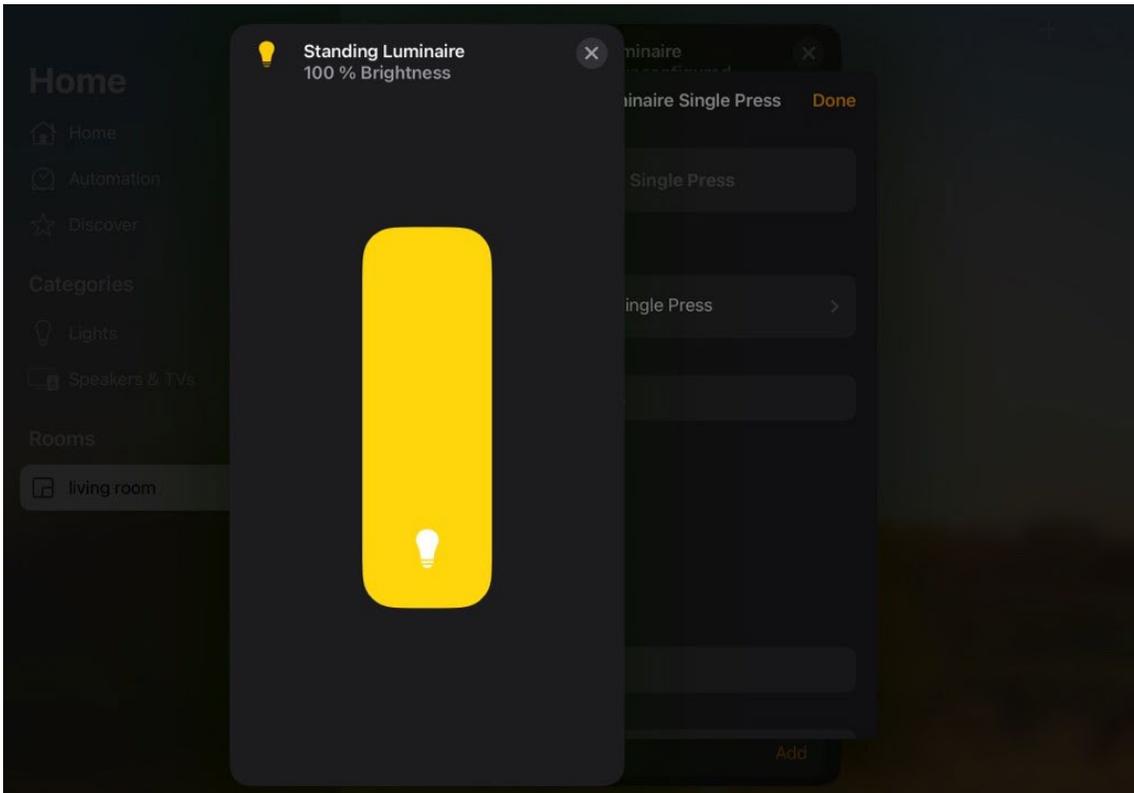
2. To set an action in the desired pushbutton, click on "Add".  
→ A new window will show up.
3. To add a dimming level, on/off action, select the box that shows the bulb symbol .
4. Click on "Next".



→ Another window will appear:

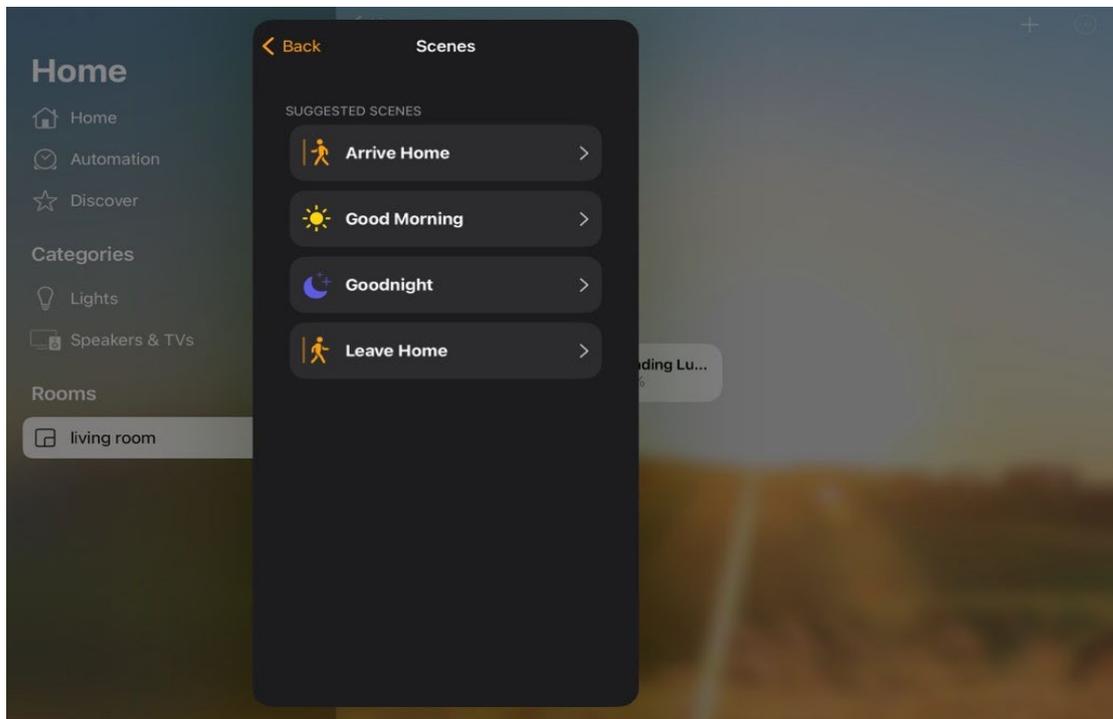


5. Click on the white box with the bulb symbol.  
→ The dimming bar will appear.
6. Slide your finger up/down to select the desired dimming level.
7. Click on the "X".
8. Click on "Done".

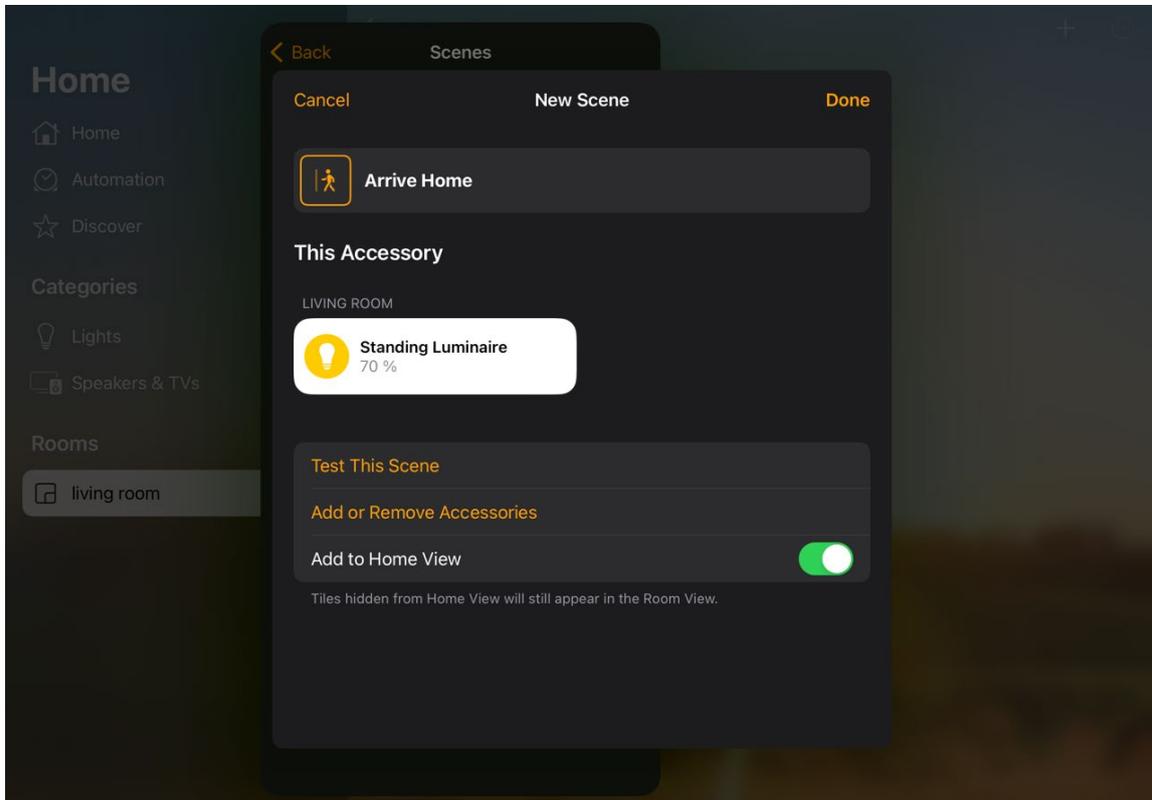


You can also set scenes.

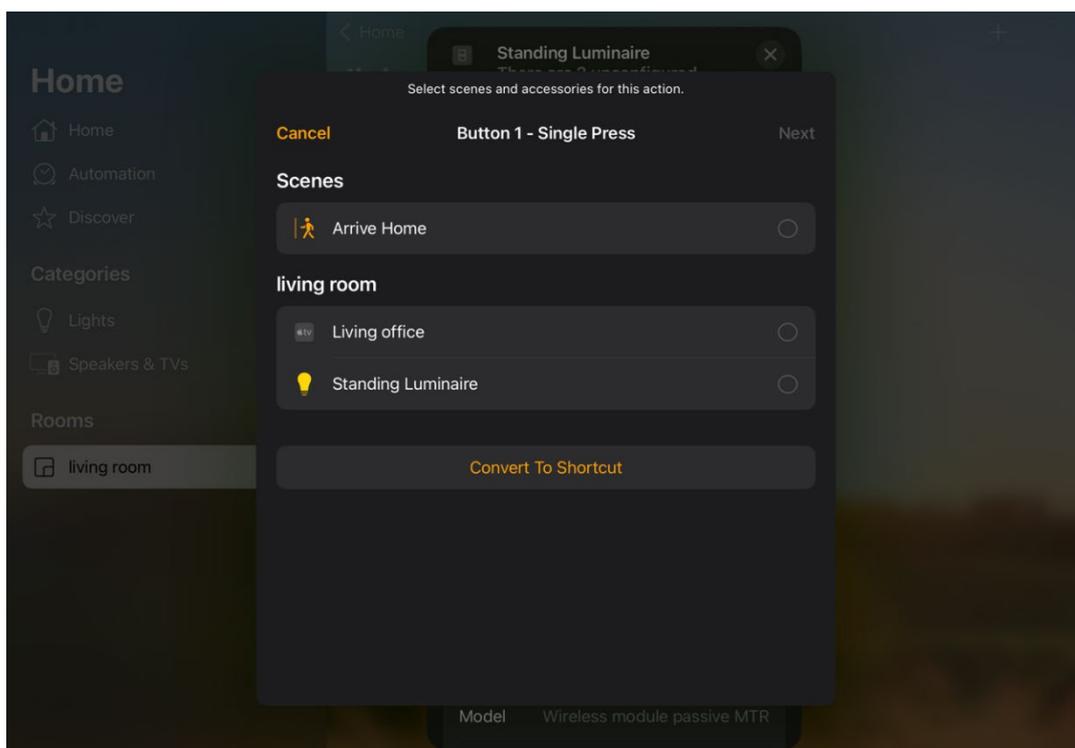
9. To do so, go back to step 2 and select "Suggested Scenes":



→ One more window will appear.  
Here you will be able to personalize the selected scene.  
10. Click on “Done”:

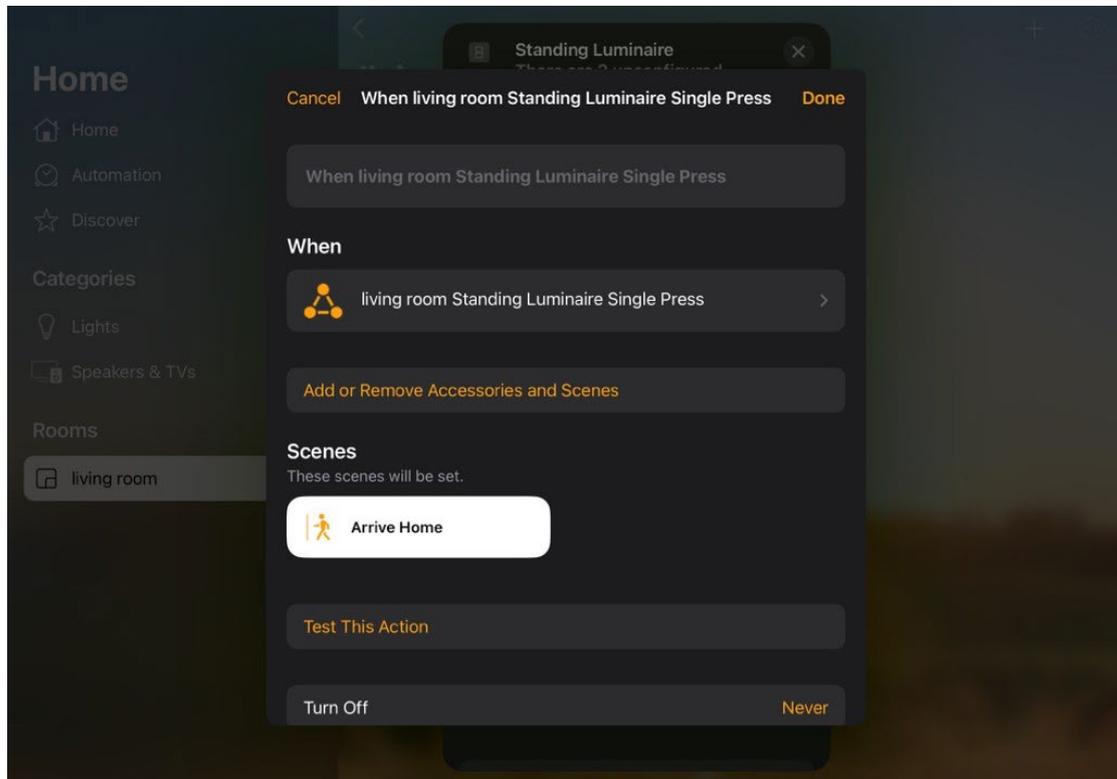


11. Repeat step 3 and onwards but selecting the desired scene “Arrive Home” this time:

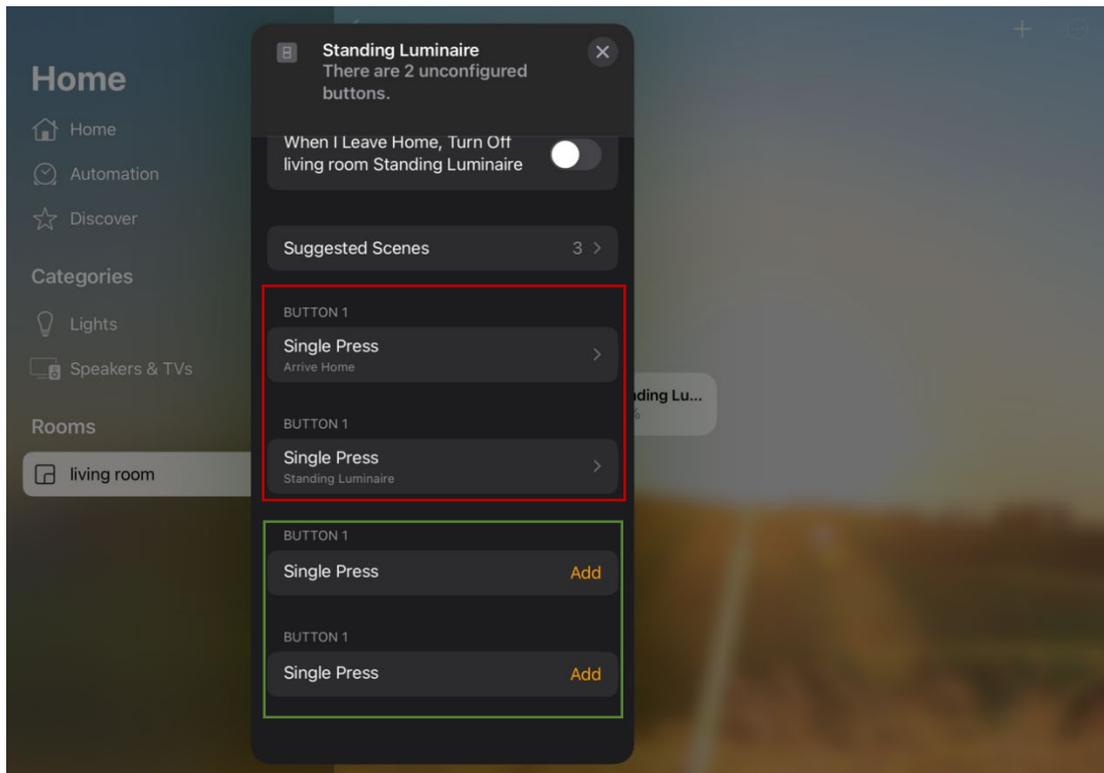


→ You will see that the “Action” showing this time corresponds to the selected “Scene”.

12. Click on “Done”:



→ In the starting menu you will be able to see that the already configured “BUTTONS” show the selected type of action on the box: “Arrive Home” and “Standing Luminaire”. The available “BUTTONS” will still show the “Add” option:



## 3. Commissioning with Google ecosystem

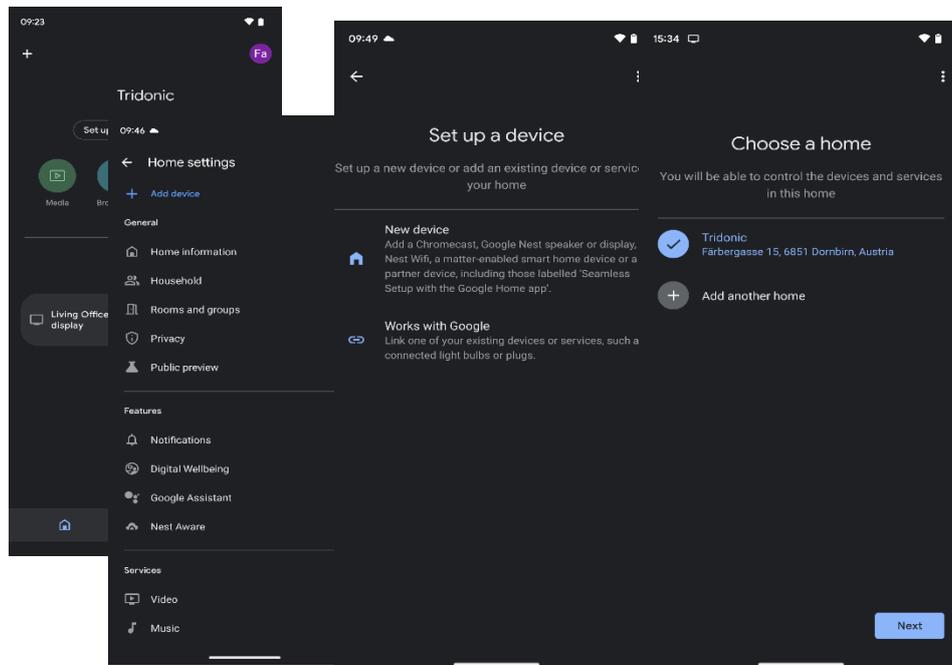
Components needed for Matter with Android:

1. Router
2. Border router: Google Nest 2<sup>nd</sup> Gen
3. Smartphone – Android Oreo (8.1, API level 27) or newer
4. Matter-ready devices

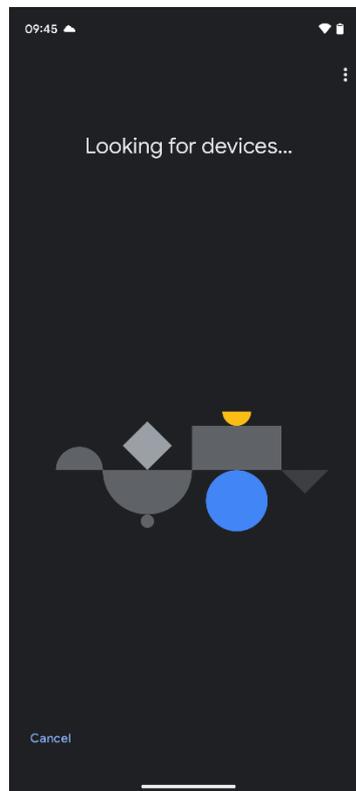
### Step by step

1. Make sure your router is connected and the network is strong and stable
2. Make sure your mobile is connected to the right network
3. Configure your Google Home app and set up your Google Nest hub by adding a new device
4. Follow Google Home instructions and create a new room
5. Connect your Matter-ready device:

Go to the Google Home app and select “+” > “Set up a device” > “New device” > “Choose a home”

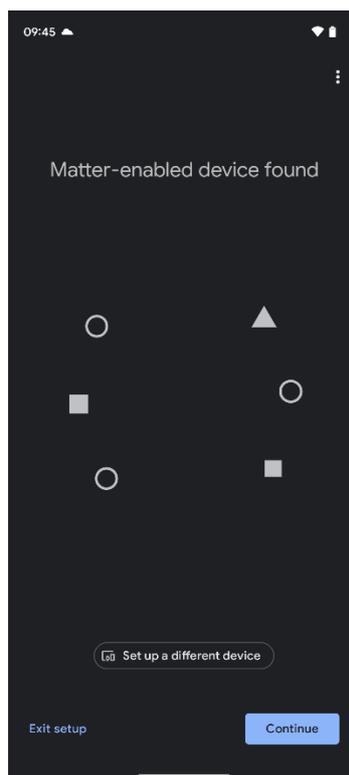


→The app will start looking for new devices:



→ The message "Matter-enabled device found" will show up.

6. Click on "Continue":

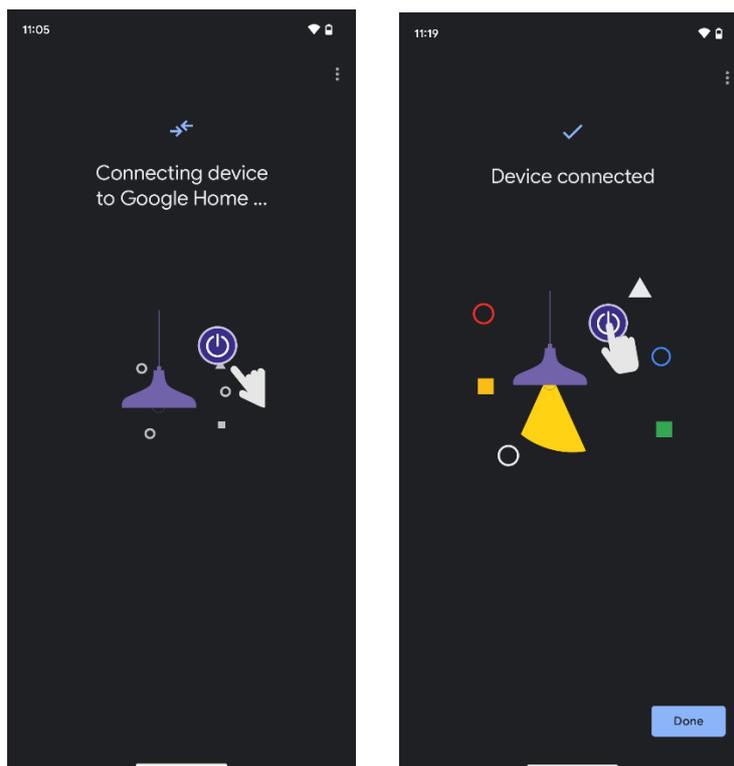


→ A window "Scan Matter QR code" will show up.

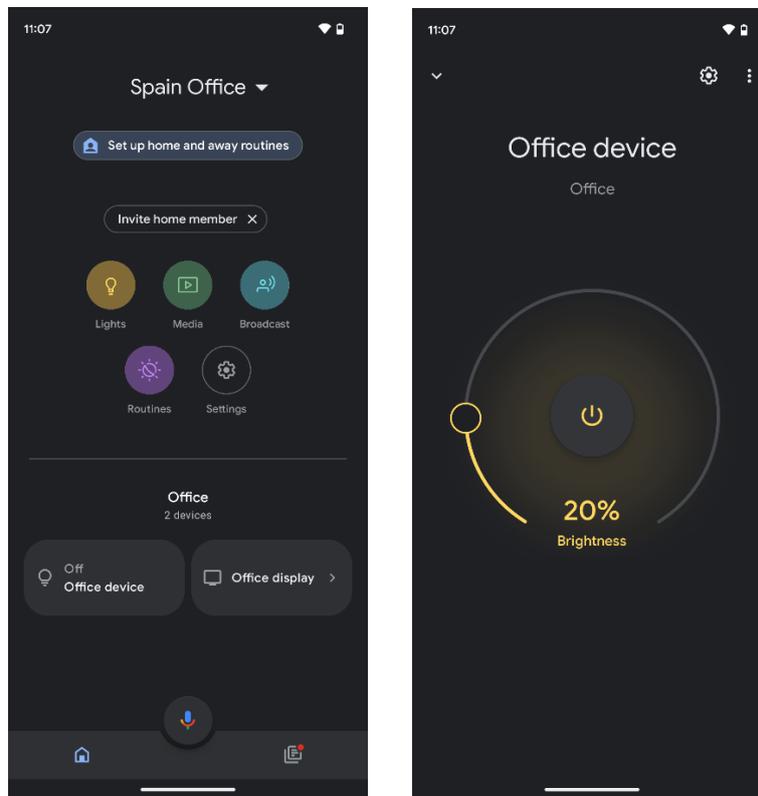
7. Scan Matter QR code:



→ Once the code has been scanned, it will show up as connected:



8. Now you can control your Matter-ready luminaire(s), send voice commands, etc.:



**Important note:**

The way Tridonic implements the matter standard follows the specifications of the [connectivity standards alliance](#). There are different ecosystems available.

- When selecting an ecosystem, make sure with the owner of the ecosystem that all the functionalities are available and usable.
- Functionalities should be tested in advance.

**Important note:**

At the moment the pushbutton functionality is not supported by Google ecosystem.