

traplink**ed**

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innovating pest control

MANUAL FOR THE TRAPLINKED SYSTEM

(All Products)

Version 1.0

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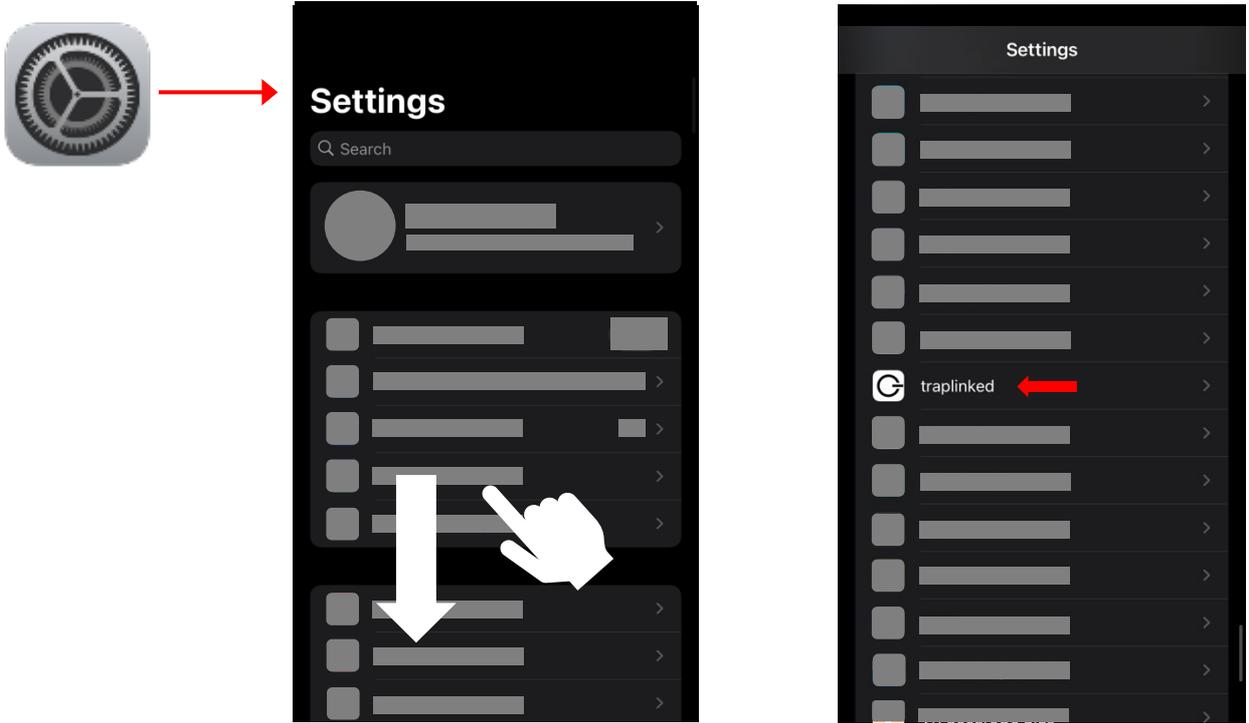
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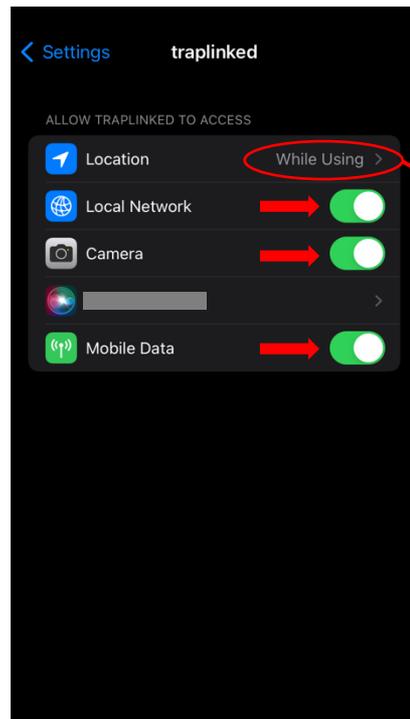


## 1.2 Settings – iPhone

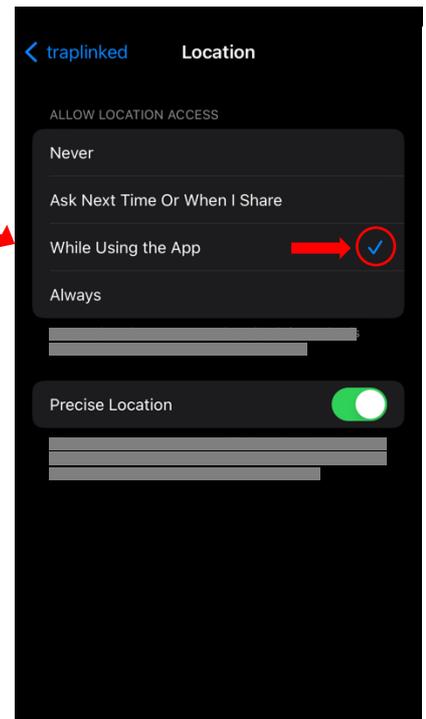
1. In the **iPhone settings**, scroll down to the traplinked app



2. Activate the options "**Local Network**", "**Camera**" and "**Mobile Data**"



3. Allow access to your **location**

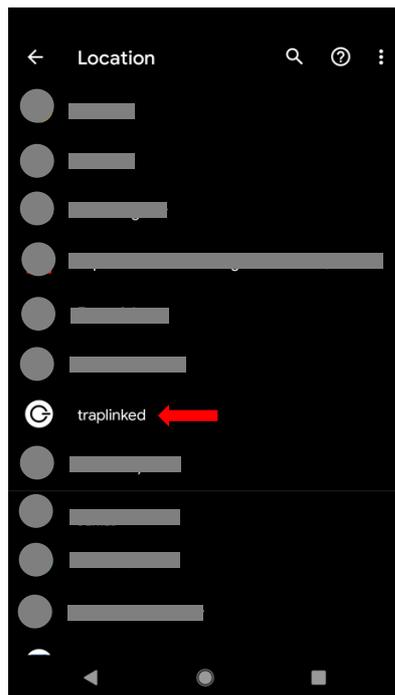
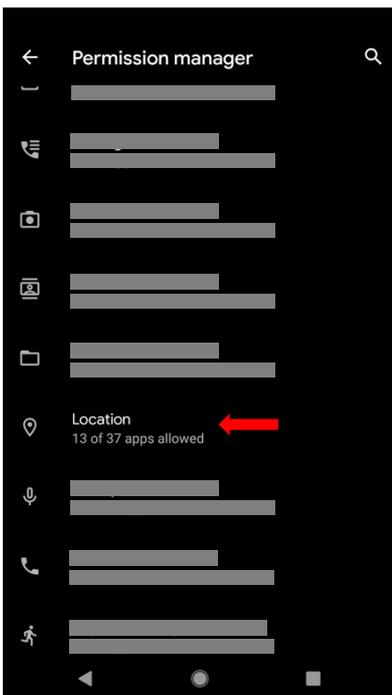


## 1.3 Settings – Android

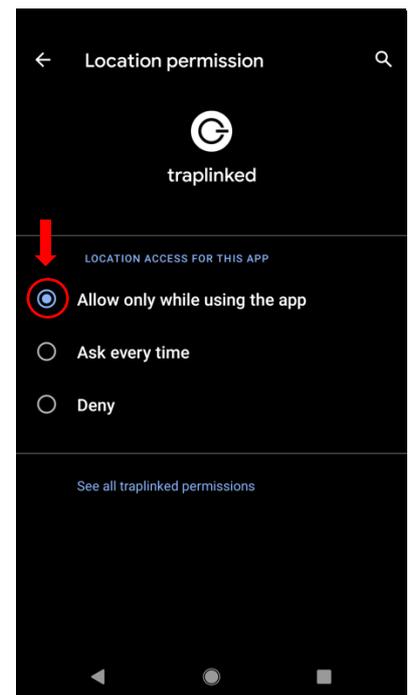
1. In the **Android settings**, go to the **"Privacy"** section and tap on **"Permission manager"**



2. Tap on **"Location"** and scroll down to the **traplinked app**



3. Allow access to your **location**



## 2 Location

### NOTE

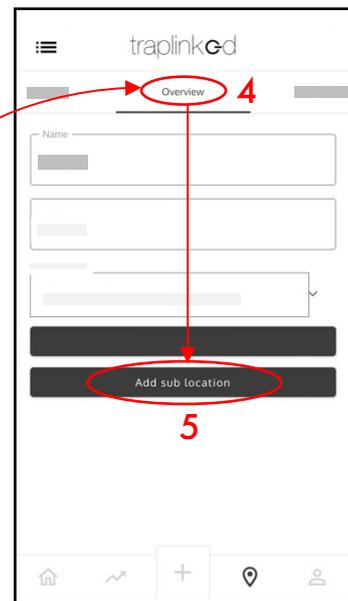
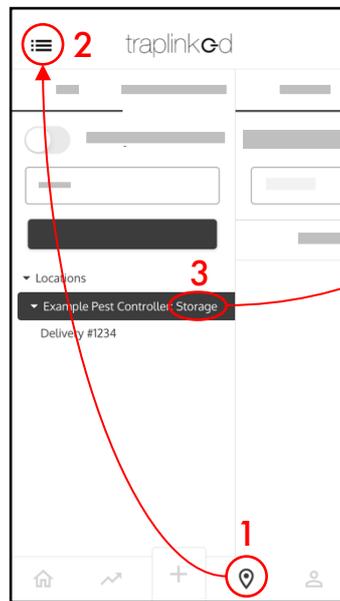
We recommend a thorough preparation of the setup in the office. This includes, in particular, the creation of a location (Chapter 2) as well as the preparation of the network (Chapter 3). If the equipment of the object is already clear before the setup, the devices can also already be prepared (chapter 5.1).

### 2.1 Create location

Switch to the traplinked app

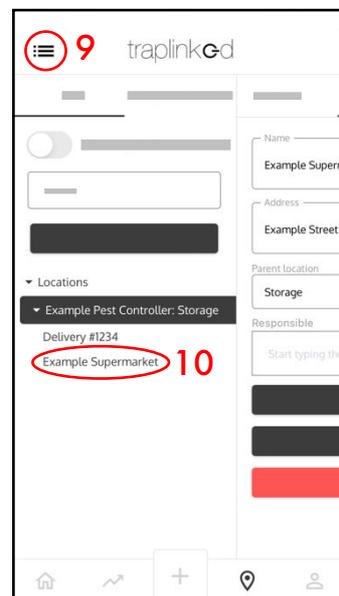
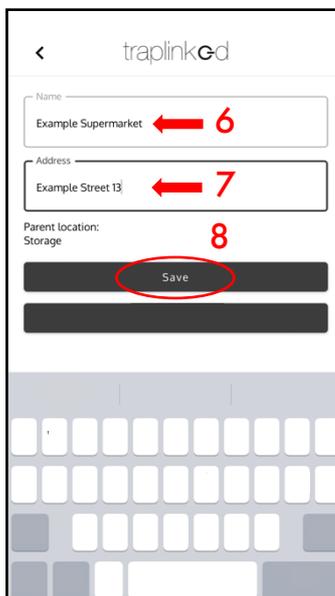
1. Tap on **location icon** 
2. Show the **location tree**
3. Tap on **"Storage"**

4. Go to the **"Overview"** tab
5. Tap on **"Add sub location"**



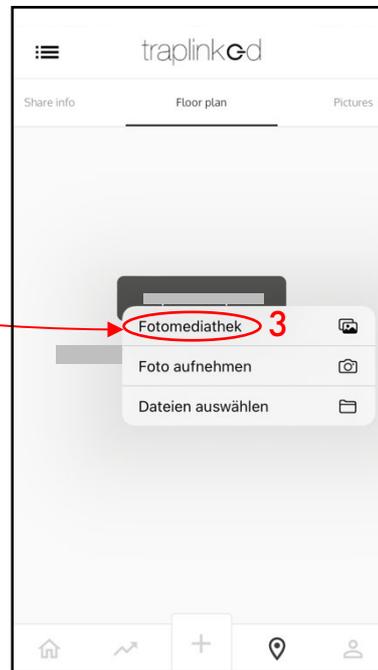
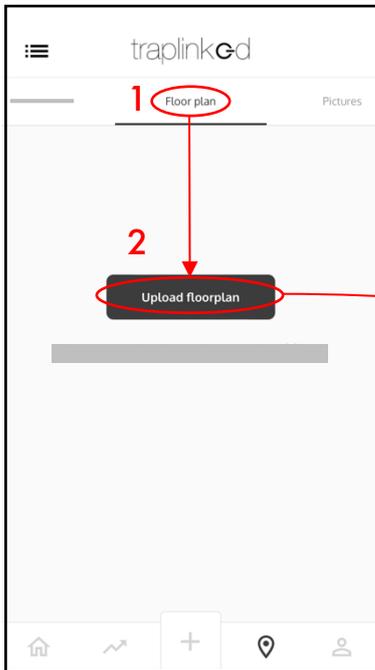
6. Enter a **name**, e.g. Supermarket
7. Enter the **address** of the location
8. Tap **"Save"**

9. Show the **location tree** again
10. Your new location has been created

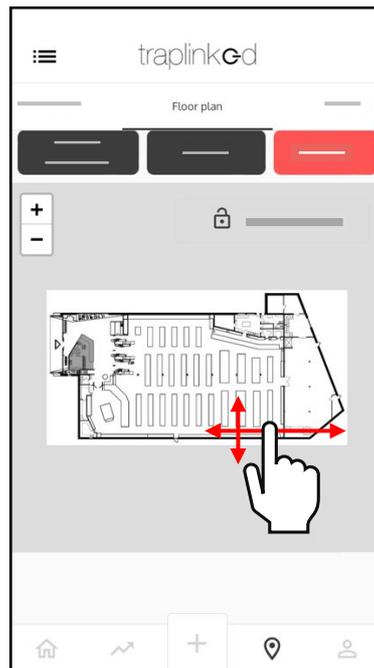


## 2.2 Upload floor plan

1. Go to the "Floor plan" tab in the selected location
2. Tap on "Upload floor plan"
3. Upload a picture of the floor plan  
Alternatively, you can also take a **photo**, e.g. of the fire protection plan

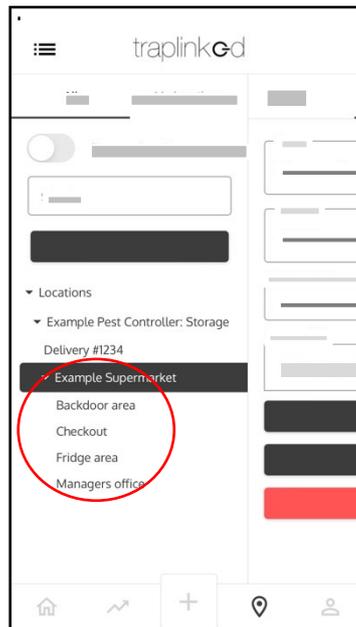
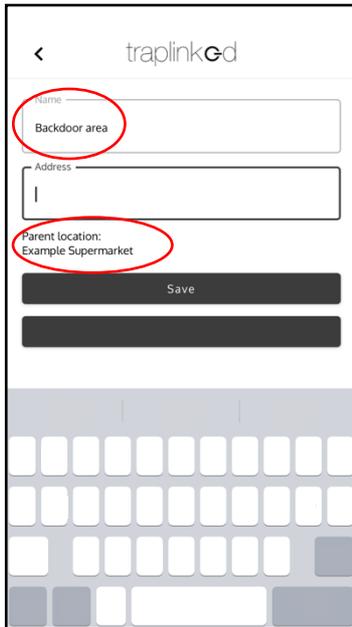


Your floor plan is **saved** and can be **moved by dragging** and **zoomed with two fingers**



## 2.3 Create sub-locations

Create **sub-locations** for the individual areas within your building. To do this, switch back to the "Overview" tab and then proceed as described in step 2.1

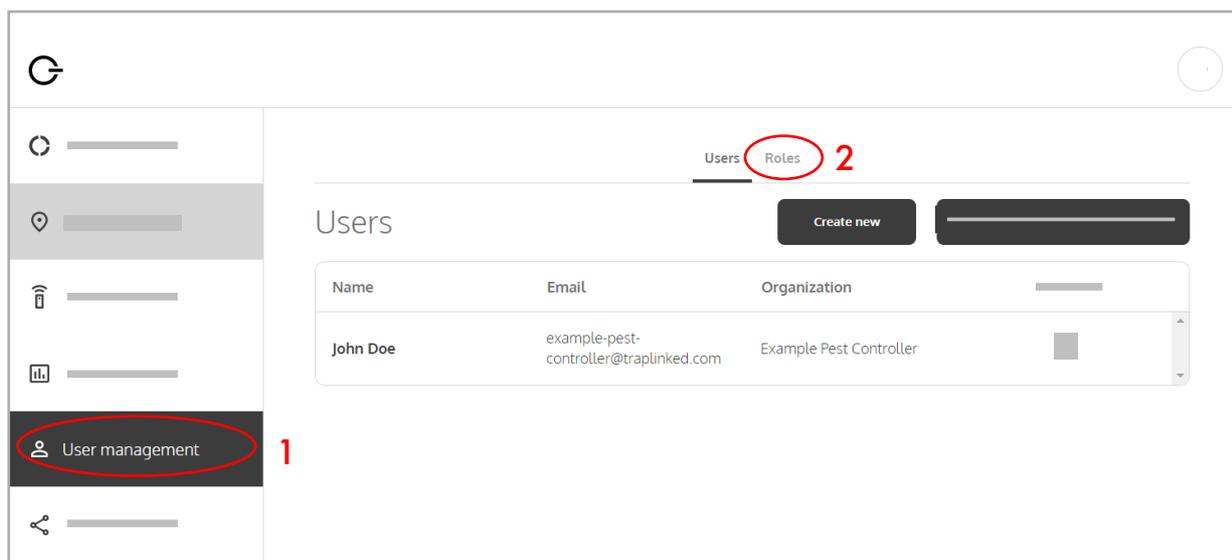


### ⚠ CAUTION

Switch back to the **parent location** each time **before** creating a **sub-location**.

## 2.4 Create and assign technicians

1. Switch to the PC and go to "User management"
2. Click on the "Roles" tab



3. Click on the "Create new" button
4. Assign a name, e.g. "Service Technician"
5. Set the checks as shown below
6. Click on "Save"

**3** Create new

New role

**4** Name  
Service Technician

Component	Create	Read	Update	Delete
Locations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Devices	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
User management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reports	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**6** Save

7. Switch to the "Users" tab
8. Click the "Create new" button
9. Click on "Create"

**7** Users

**8** Create new

Name	Email	Organization
John Doe	example-pest-controller@traplinked.com	Example Pest Controller

Which organization do you want to create a user in?  
Example Pest Controller

**9** Create

Cancel

10. Enter the **name of your technician** and his **E-mail address**
11. Select the **"Service Technician"** role
12. Click on **"Save"**

The screenshot shows a 'New user' form with the following fields and annotations:

- 10:** A red circle highlights the 'Name' field (containing 'Peter Mueller') and the 'Email' field (containing 'p.mueller@example-pest-controller.com').
- 11:** A red circle highlights the 'Role' dropdown menu, which is set to 'Service Technician'.
- 12:** A red circle highlights the 'Save' button.

A blue notification banner at the bottom right of the form reads: 'User has been successfully created'.

**NOTE**

The app **automatically** generates a **secure password**. Make a note of it and share it with your technician.

13. Switch to **"Locations"** and click on your **parent location**
14. Click on **"Add responsible"** and select your created **technician**
15. Click on **"Add"**

The screenshot shows the 'Locations' page with the following annotations:

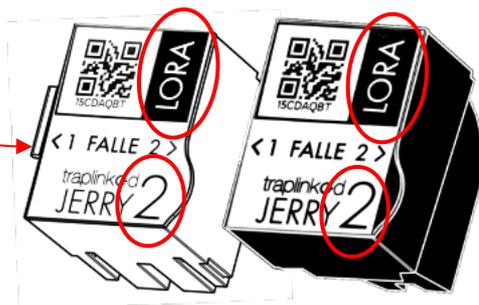
- 13:** A red circle highlights the 'Locations' menu item in the left sidebar.
- 14:** A red circle highlights the '+ Add responsible' button in the 'Example Supermarket' section.
- 15:** A red circle highlights the '+ Add' button in the 'Responsible' dropdown menu.

The 'Responsible' dropdown menu is open, showing a list of users: 'John Doe' and 'Peter Mueller'. A mouse cursor is pointing at 'Peter Mueller'.

If you want to set up JERRY 2 LoRa devices with the associated network, scroll to the [next page](#)

**NOTE**

You can identify JERRY 2 LoRa devices by the stickers on the tunnel/box and module.

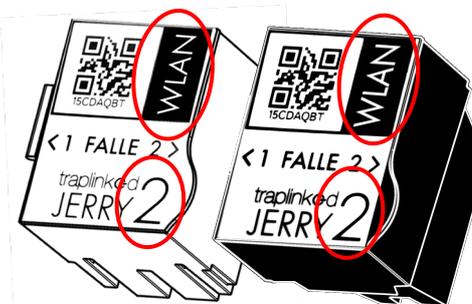


If you want to set up TOM or JERRY 2 WiFi devices with the associated network, turn to [page 18](#).



**NOTE**

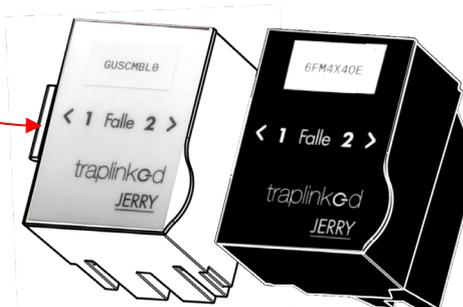
You can identify JERRY 2 WiFi devices by the sticker on the module housing.



If you want to set up JERRY 1 WiFi devices with the associated network, turn to [page 18](#).

**NOTE**

You can identify JERRY 1 WiFi devices by the sticker on the module housing.



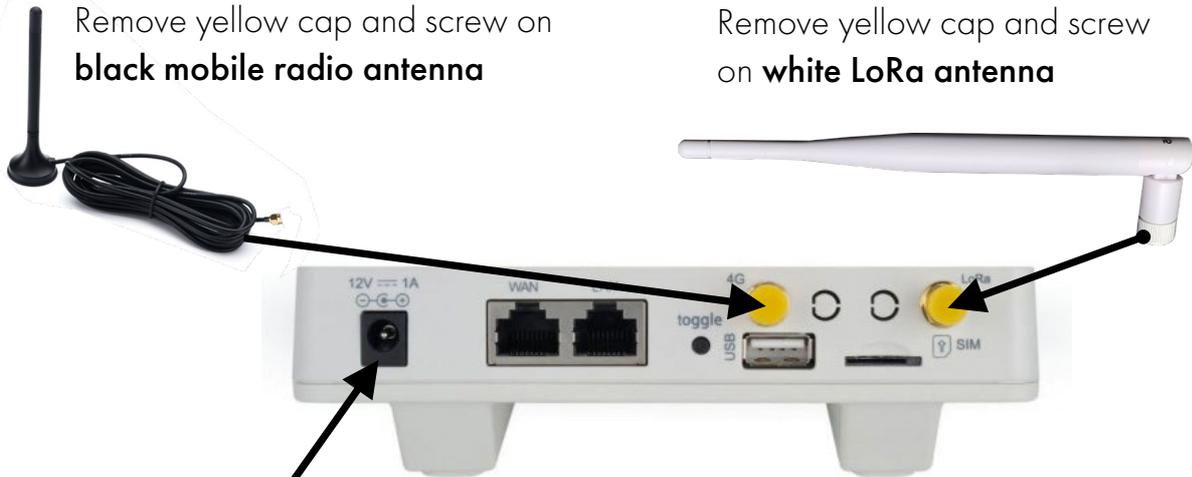
# 3 LoRa network

## 3.1 Set up the indoor gateway (model LG308-4G)



1 Remove yellow cap and screw on **black mobile radio antenna**

Remove yellow cap and screw on **white LoRa antenna**



Power connection

### NOTE

Your gateway comes with a **pre-configured SIM card**. Please do **not remove it**.

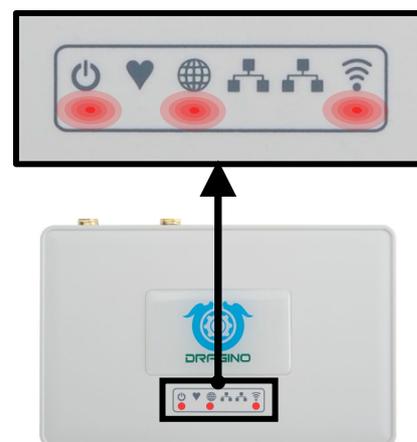
2 Connect the **power supply unit**, plug it into a **permanent power socket** and attach the sticker



3 After plugging in, the gateway **boots up** and establishes a LoRa network

This can take up to 5 minutes

If these three **LEDs** are **permanently red** as shown here, the gateway is **online**:



### ⚠ CAUTION

If the LED under the symbol is **NOT** permanently red, the gateway has no cell reception. Please reposition the gateway.

## 3.2 Set up the indoor gateway (model LPS8N-E4G)



- 1 Remove yellow cap and screw on **black mobile radio antenna**

Remove yellow cap and screw on **white LoRa antenna**



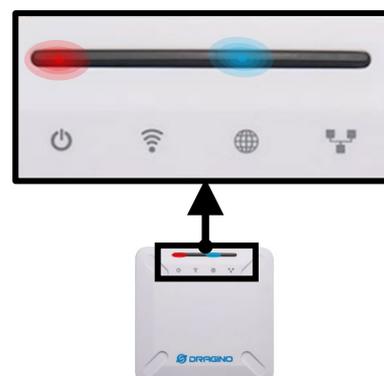
- 2 Connect the **power supply unit**, plug it into a **permanent power socket** and attach the sticker



- 3 After plugging in, the gateway **boots up** and establishes a LoRa network

 **This can take up to 5 minutes**

If these two **LEDs** light up **permanently red and blue** as shown here, the gateway is **online**:



### **CAUTION**

If the LED above the symbol  is **permanently red**, the gateway has no cell reception. Please reposition the gateway.

### 3.3 Set up the outdoor gateway (DLOS8-4G model)

1

Screw on antenna cable



2

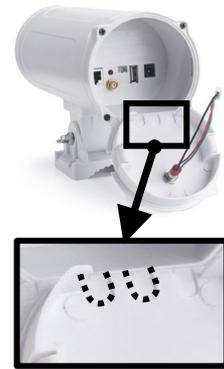
Remove the cover on the underside



**⚠ CAUTION**

To make the gateway **waterproof**, hang it up **with the lid facing downwards** as shown in step 2!

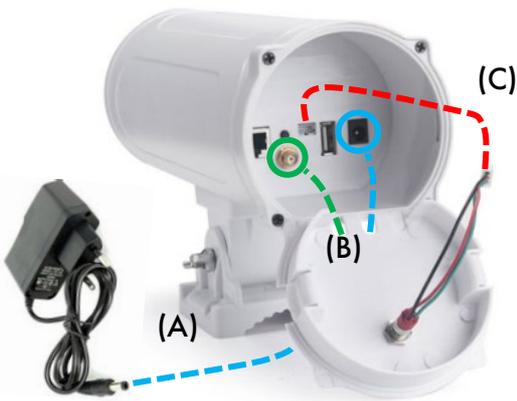
3



4

Feed **power supply (A)** and the golden end of the **antenna cable (B)** through the cut-outs and **connect to jacks inside**

**Connect** cable for **LED (C)** to **jack** inside and **close cover** again



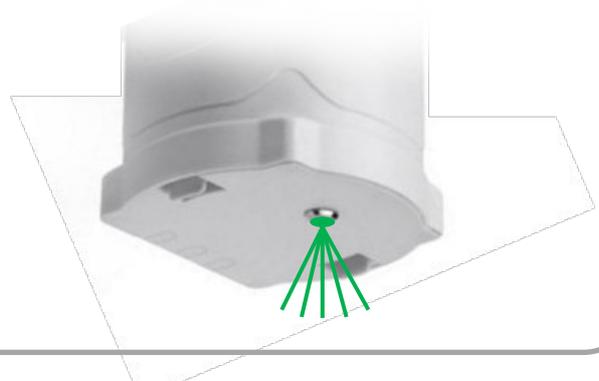
5

Plug the **power supply unit** into a **permanent power socket** and attach the sticker 

After plugging into the socket, the gateway **boots up** and establishes a LoRa network

 **This can take up to 5 minutes**

If the **LED** on the **bottom side** is **permanently green**, the gateway is **online**



**⚠ CAUTION**

If the LED on the bottom side is **permanently red**, the gateway has no cell reception. **Please reposition the gateway.**

## 3.4 Position gateway

### NOTE

The **correct positioning** of the gateways in your building has a great influence on the **quality** of the **LoRa network**. Therefore, adhere to the following guidelines.

The following **ranges** from gateway to JERRY are possible:

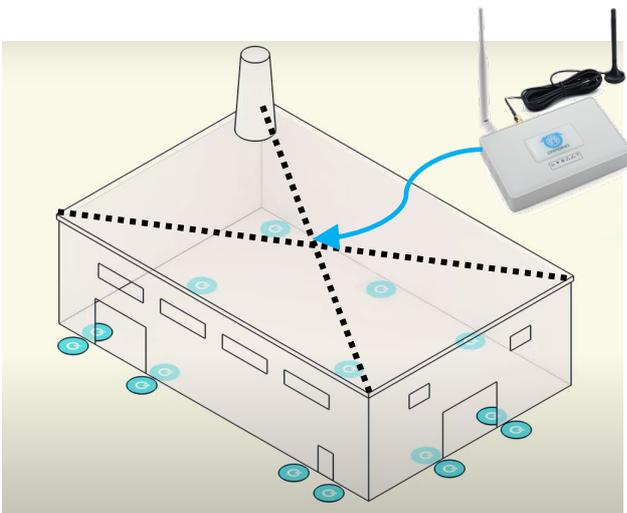
<b>Open field</b> (parking lots, farms)	up to <b>1,000 m</b>
<b>Light buildings</b> (residential, office buildings)	up to <b>600 m</b>
<b>Medium buildings</b> (supermarkets, department stores)	up to <b>300 m</b>
<b>Heavy buildings</b> (machine parks, production halls)	up to <b>100 m</b>



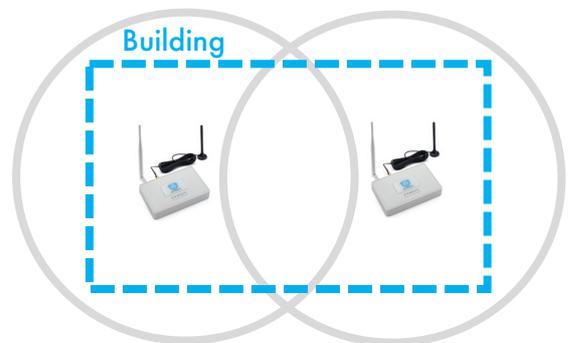
You can run up to **220** devices through **1 gateway**.

Select the **number of gateways** depending on the **size of the building** and the **ranges** given above

Always position gateways **as centrally as possible** and **as high as possible** (e.g. below a ceiling):

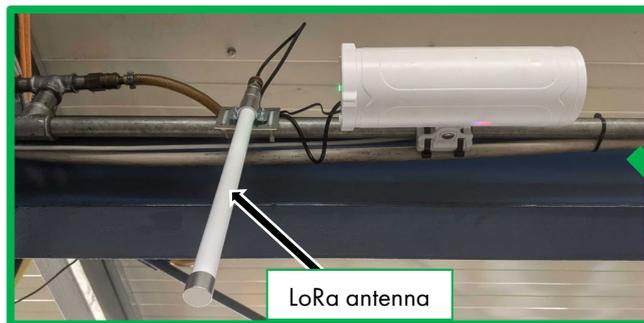
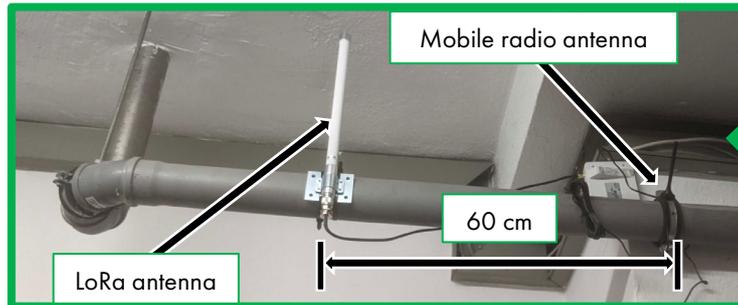


If you use **several gateways**, ensure that the ranges are **overlapped**:



Always position the **LoRa antenna** of your gateway...

- As **high** as possible in the room
- **Vertical pointing** (up or down)
- As **free-floating** as possible, i.e.
  - not directly against a wall
  - not directly in front of or behind metal objects
- With at least 60 cm **distance** to **other antennas** (e.g. mobile radio antenna or other WiFi routers)



## 3.5 Position the traps

In principle, you can **position** your traps freely **within the specified ranges**.

### ⚠ CAUTION

In the edge area, an additional **protective plate** can possibly lead to the connection strength **not being sufficient**. In this case, do without the protective plate, **reposition the trap** or hang another gateway.



### ⚠ CAUTION

Once the gateway is booted, you will see a **network called "dragino"** in the **WiFi settings** of your smartphone - this is just the internal **WiFi hotspot** of the gateway and has **NOTHING to do with the LoRa connection strength!**

**"Measuring"** the LoRa connection strength via **smartphone** is **NOT possible!**

### NOTE

In the case of radio-technically **demanding buildings**, e.g. with numerous thick walls/ceilings (refrigerated warehouses, highly insulated buildings), an individual approach is advisable.

Before setting up, measure the object using a field strength meter as shown in the adjacent video.



If you need further help or are unsure, please **contact traplinked support** for a joint project planning.

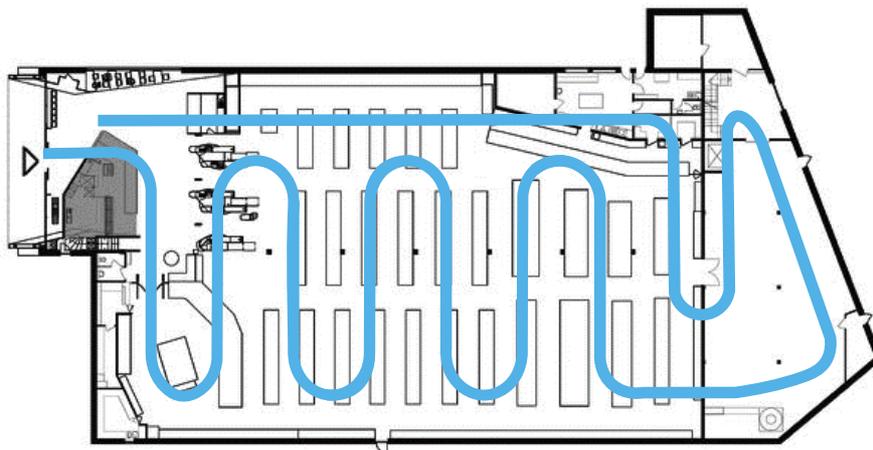
## 4 WiFi network

### 4.1 WiFi from the customer (Plug & Play)

#### ⚠ CAUTION

Both JERRY and TOM work **exclusively** with **2.4 GHz WiFi networks**. Ask your **customer** to assure you that his WiFi network really transmits at 2.4 GHz.

1. Your traps are already **pre-configured** to the customer's WiFi data (name and password). **You do not have to do anything to the traps**
2. **Log in** to your **customer's WiFi** on your **smartphone**
3. **Walk the entire building** and check if there is **sufficient WiFi** connection everywhere



#### ⚠ CAUTION

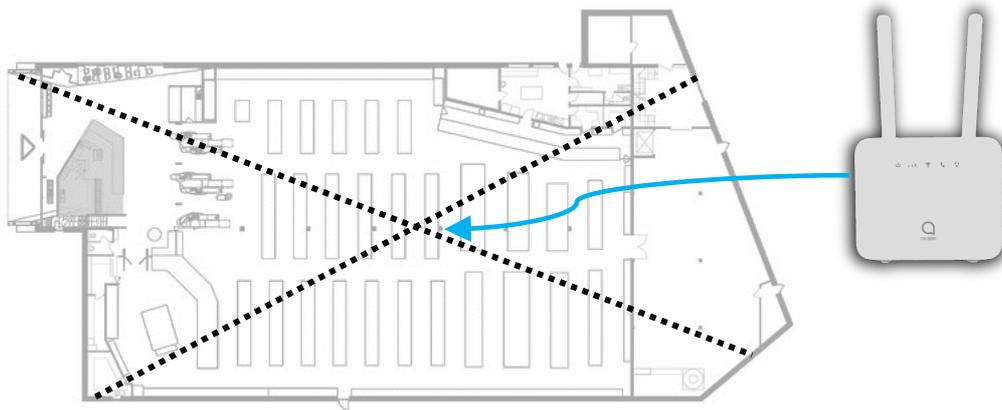
The **WiFi connection** within a building can **deteriorate situationally**, e.g. due to closing doors or filling shelves. Therefore, make sure that **the connection does not fall below 2 bars anywhere** during your walk-through.



## 4.2 traplinked router and repeater (Plug & Play)



1. Your traps are already **pre-configured** to the WiFi data (name and password) of the supplied routers and repeaters. **You do not have to do anything to the traps**
2. Find a **central location** in the property with a **permanent power outlet** that is **as high as possible**. **Areas that are difficult to access are ideal** to ensure that no one unplugs the router



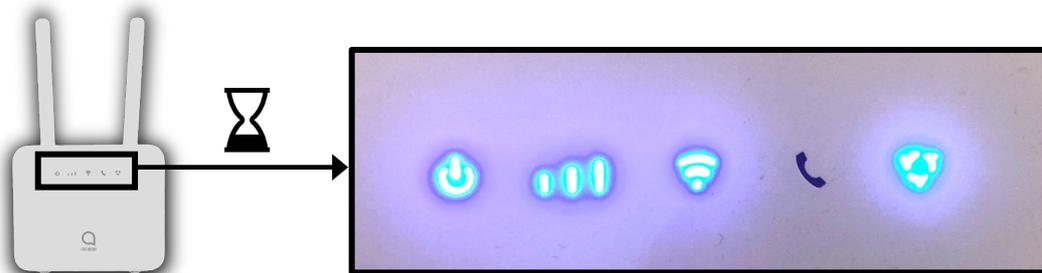
3. Screw on both antennas, plug in the router and attach the sticker



After plugging into the socket, the router **boots up**

 **This can take up to 5 minutes**

If these four **LEDs** light up **solid blue** as shown here, the router is **online**:



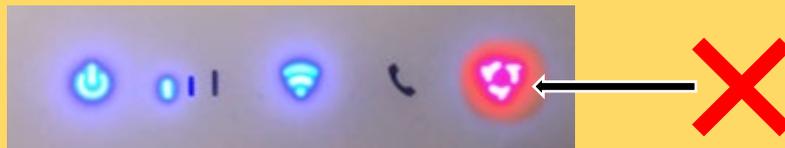
### ⚠ CAUTION

For a long-term stable network, the router should show **at least two bars** of cellular reception.



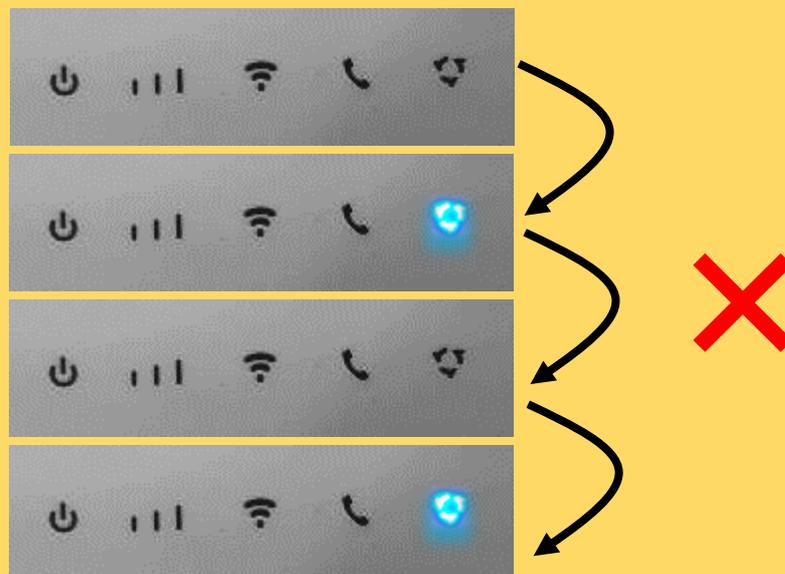
### ⚠ CAUTION

If the **rightmost LED is red**, the router has **no cell reception**. Please reposition the router.



### ⚠ CAUTION

If the **LED on the far right flashes blue**, there is a **problem with the SIM card**. Please contact the traplinked support.





## 4.3 Manual configuration

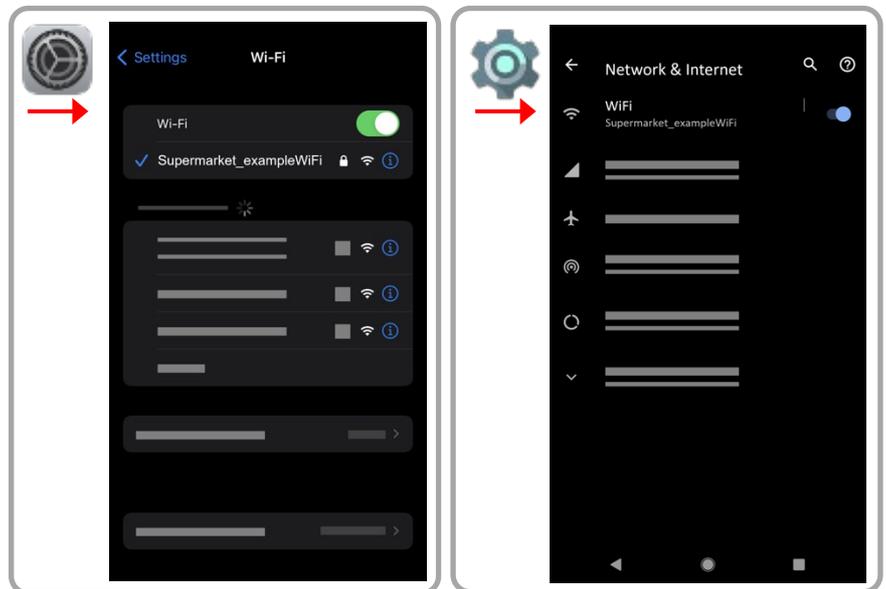
### NOTE

**Manual configuration** allows you to integrate your JERRY and TOM devices into **any WiFi network**. You must be on site to do this.

### ⚠ CAUTION

JERRY and TOM **only work with 2.4 GHz WiFi networks**. Ask your customer to assure you that his WiFi network really transmits at 2.4 GHz.

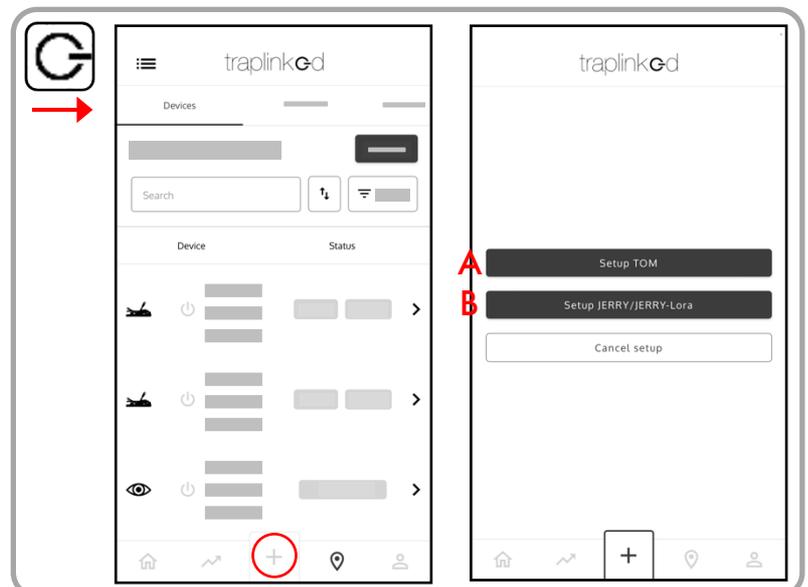
1. Connect via your **iPhone** or **Android settings** with the WiFi network



### ⚠ CAUTION

**Location access must be enabled** as described in chapter 1.2 or 1.3.

2. Switch to the **traplinkd app** and tap the "+" button
3. **Select** which **type** of device you want to configure

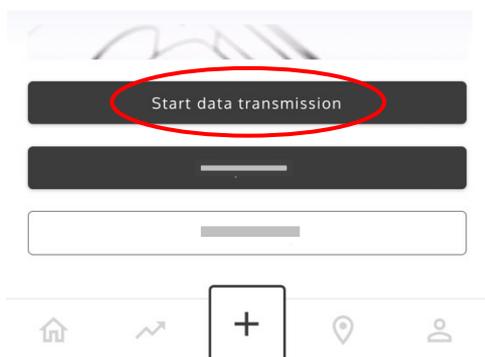


4. Follow the instructions in the app

## ⚠ CAUTION

Make sure that you **do not make any typing errors** when **entering the password**.

5. Tap on "Start data transmission"

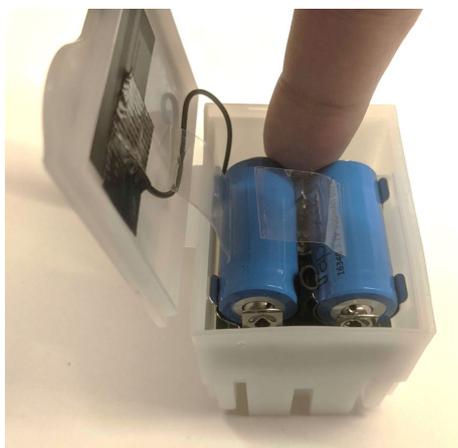


6. When the process is complete, you will receive the message "X of X is successfully set up"

7. Tap "Confirm" and then "Done"



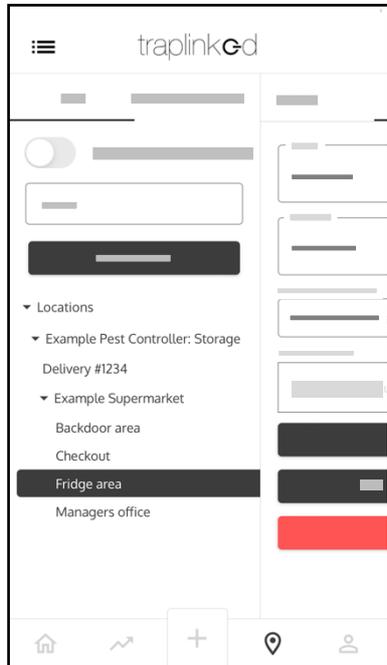
8. Switch off your device after successful completion



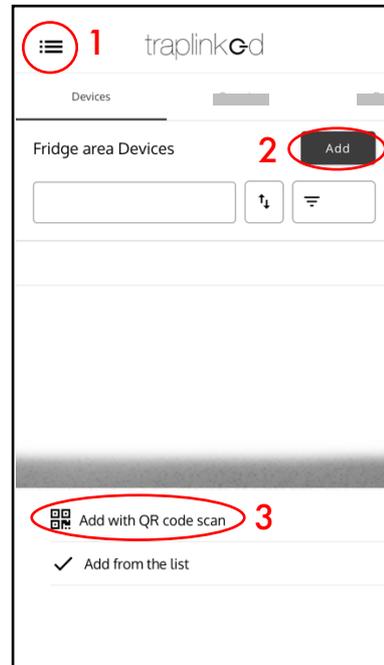
# 5 Devices

## 5.1 Move and rename

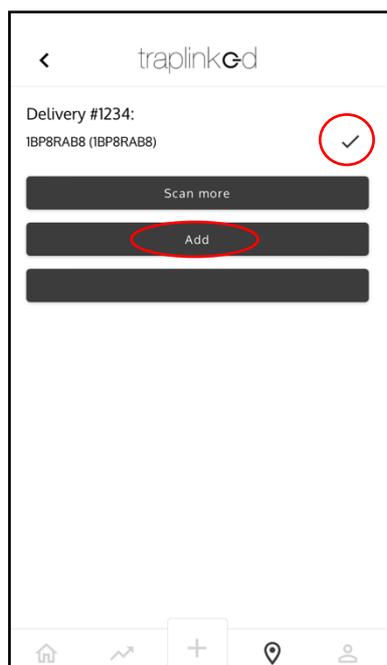
1. Go to the **respective sub-location**



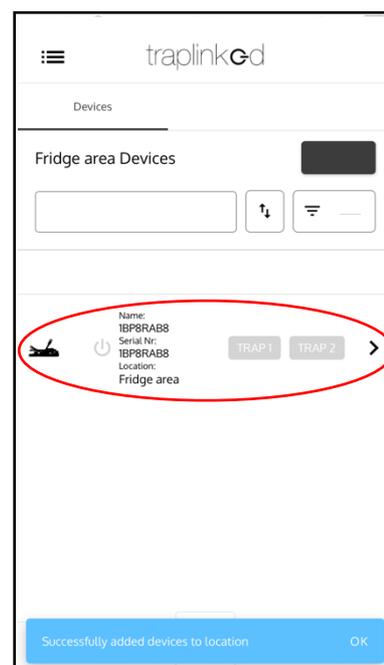
2. Switch to the **"Devices"** tab, tap **"Add"** and then **"Add with QR code scan"**



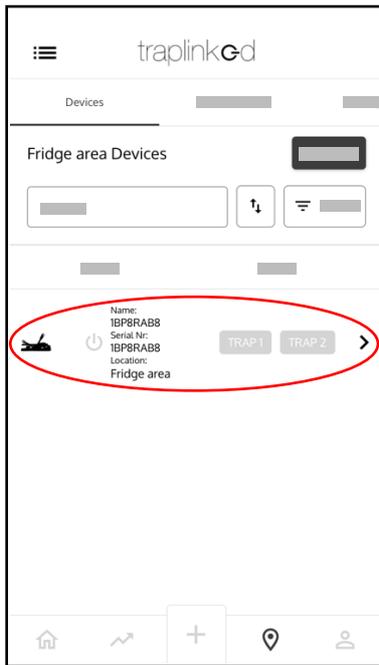
3. **Scan the QR code** of the device. **Press the device number to set a check mark.** Tap on **"Add"**



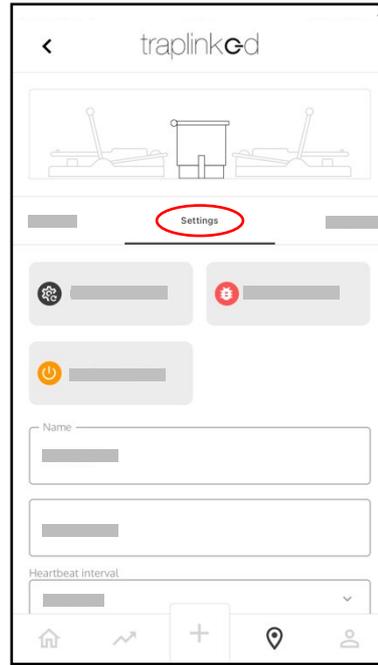
4. Your **device** appears in the **sub-location**



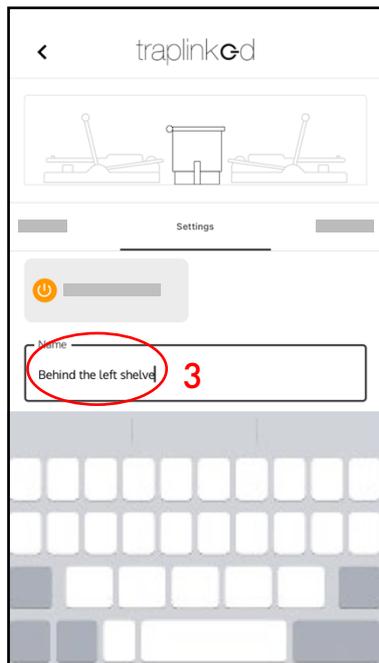
5. Tap the device



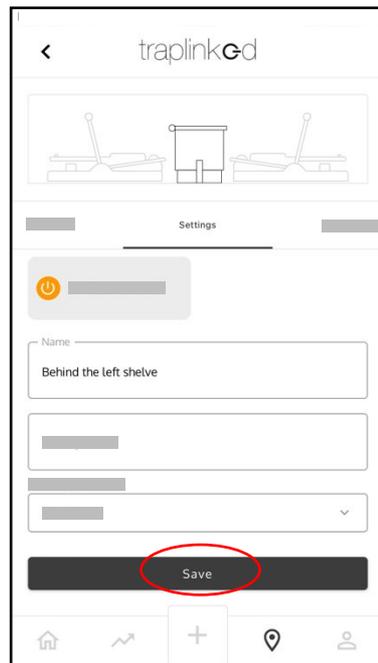
6. Switch to the "Settings" tab and tap on the "Name" field



7. Enter a device name

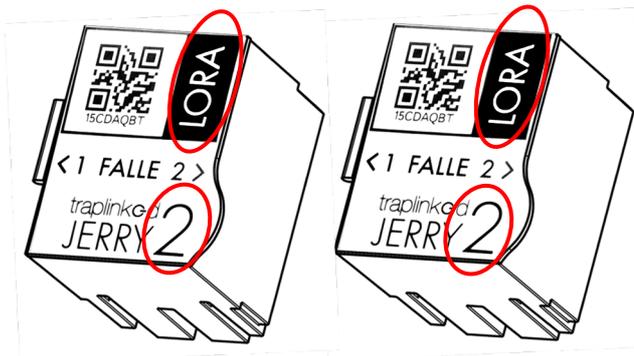


8. Tap "Save"



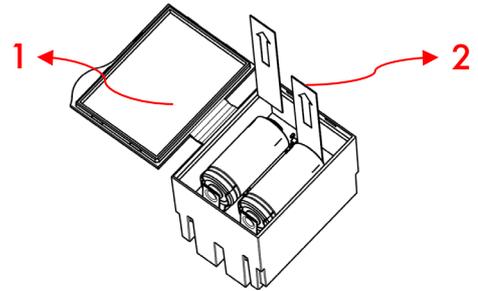
## 5.2 Switch on

### 5.2.1 Switch on and set up – JERRY 2 LoRa



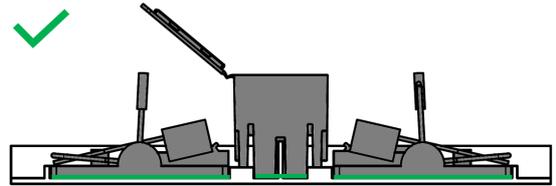
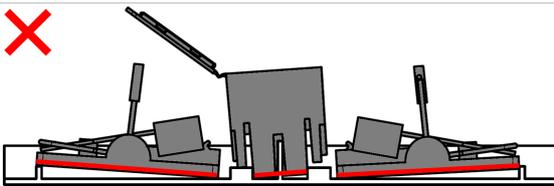
#### ⚠ CAUTION

Always switch on devices **exactly** where you want them to be later.

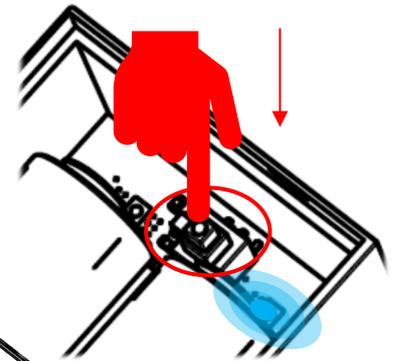
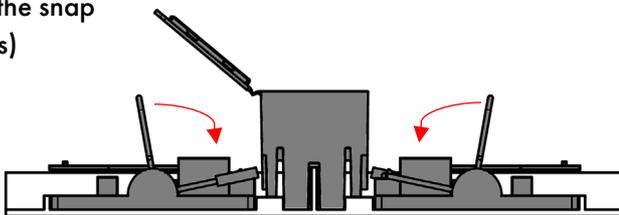


1. Open the cover of the module
2. Remove both battery disconnect strips

3. Make sure that the JERRY module and the snap trap(s) are seated straight



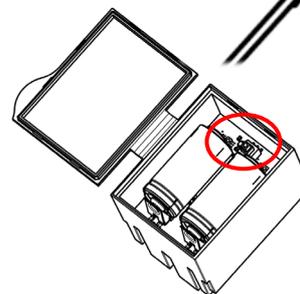
4. Arm the snap trap(s)



5. Press the on/off button. The device flashes blue

#### ⚠ CAUTION

If your device flashes **any color other than blue**, turn it **off**. Check if the module and snap traps are seated correctly. Switch the device on again.

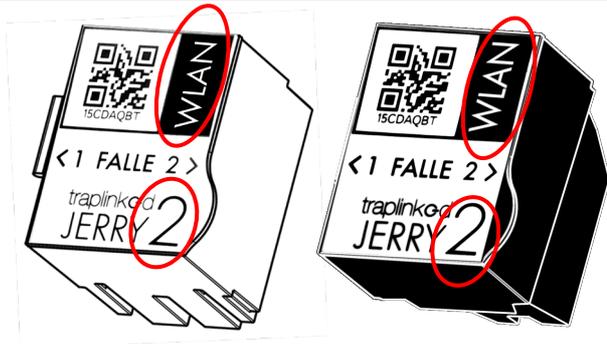


After switching on, the device establishes an encrypted connection to the LoRa network. This process usually takes no longer than **1 minute**. After that, your device appears as online in the tralinked app.



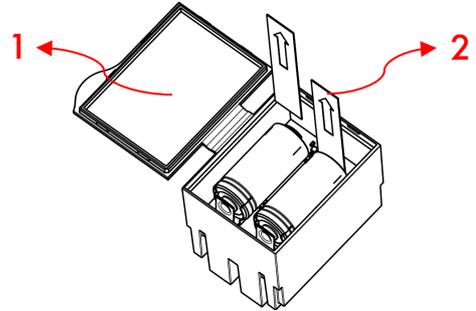
6. Close the lid of the module, close the tunnel/box and carefully place the device at the control point

## 5.2.2 Switch on and set up – JERRY 2 WiFi



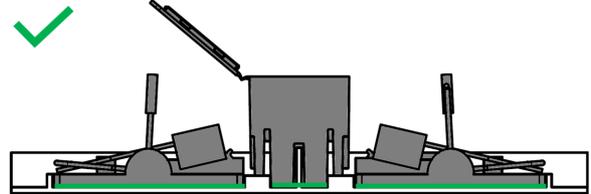
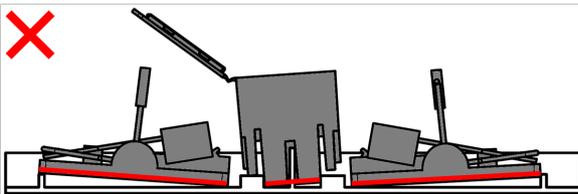
### ⚠ CAUTION

Always switch on devices **exactly** where you want them to be later.

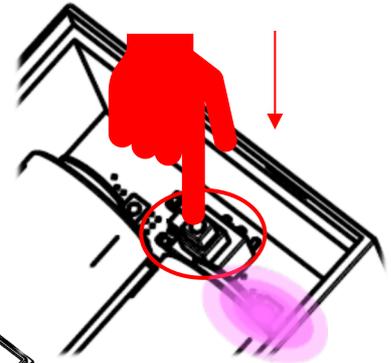
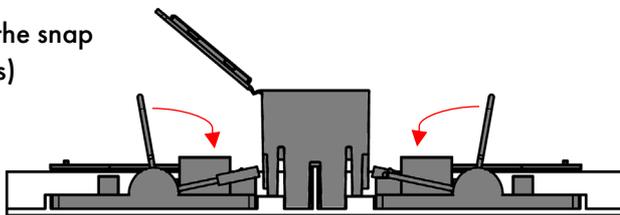


1. Open the cover of the module
2. Remove both battery disconnect strips

3. Make sure that the JERRY module and the snap trap(s) are seated straight



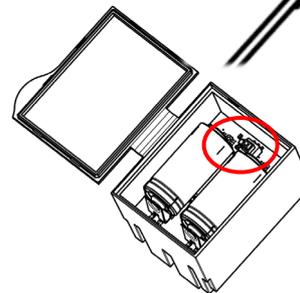
4. Arm the snap trap(s)



5. Press the on/off button. The device flashes magenta

### ⚠ CAUTION

If your device flashes **any color other than magenta**, turn it off. Check if the module and impact traps are seated correctly. Switch the device on again.



After switching on, the device establishes an encrypted connection to the WiFi network. This process usually takes no longer than **20 seconds**. After that, your device appears as online in the traplinked app.



6. Close the lid of the module, close the tunnel/box and carefully place the device at the control point

## 5.2.3 Switch on and set up – TOM

### ⚠ CAUTION

Always switch on devices **exactly where you want them to be later.**

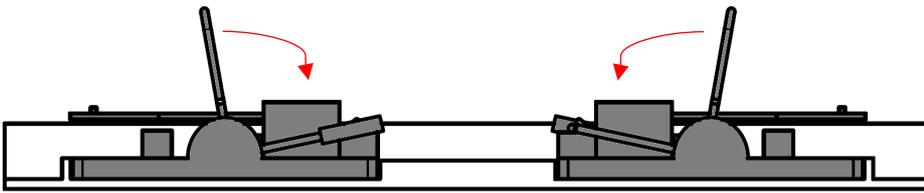
Use your smartphone to make sure that **there are at least 2 bars of WiFi signal** at the installation location of your TOM.



1. Remove the protective cap from the camera



2. Arm the snap trap(s)



### NOTE

Only necessary for TOMs in snap trap mode.

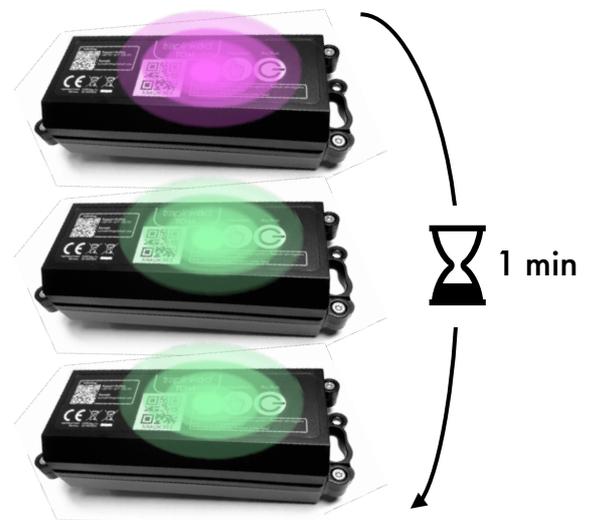
3. Press and hold the on/off button for approx. 4s. Release the button as soon as the device flashes white



After switching on, the device connects to the WiFi network and sends a first image. This process usually takes no longer than **1 minute**. Your TOM device then appears as online in the traplinked app.

### NOTE

1. Magenta flashing after switching on indicates that **the WiFi network has been found by the device.**
2. Green flashing means that the device has **successfully connected to this WiFi network.**
3. Renewed green flashing means that the device has **successfully sent a first image.**



Online



Online

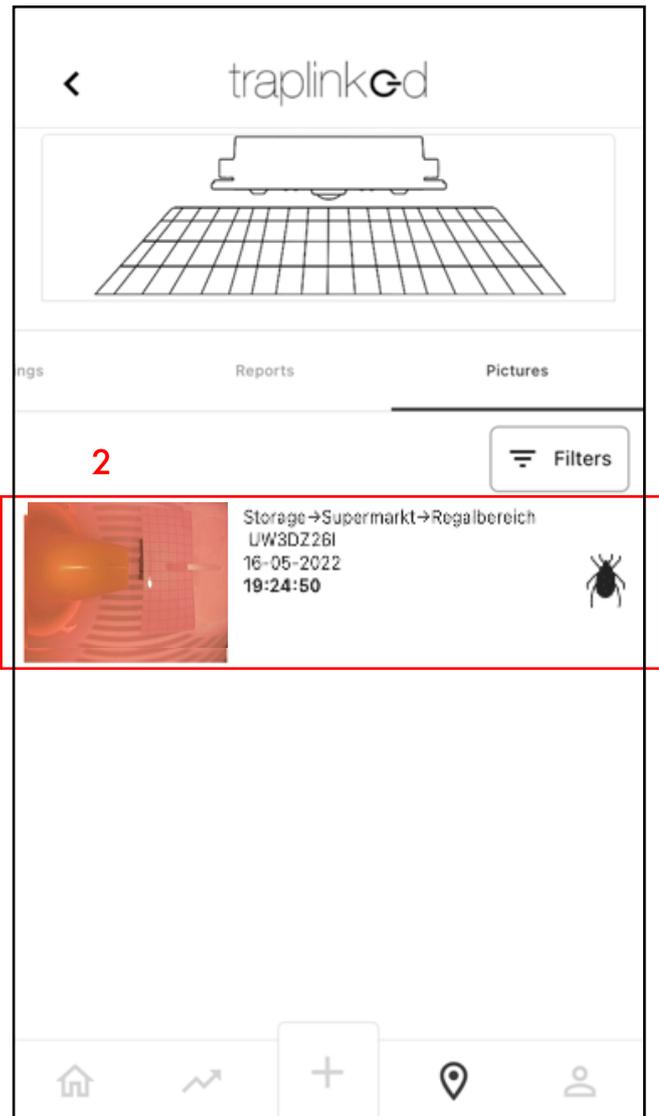
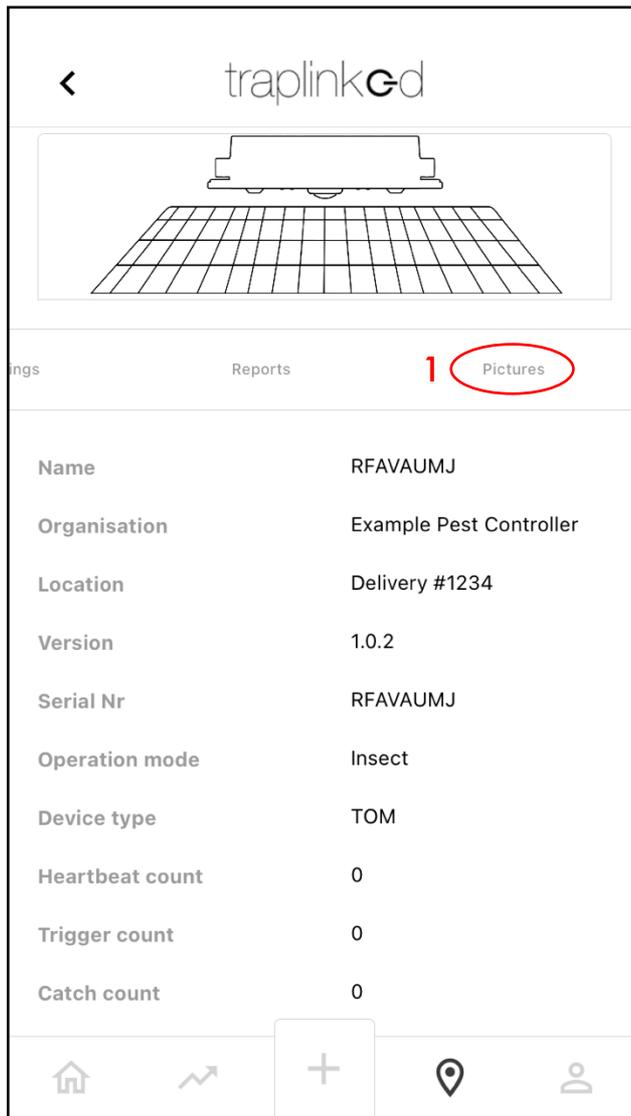


Online

## ⚠ CAUTION

Your device is not flashing green, but colored or red? Please check whether the WiFi connection is strong enough. If you are using a traplinked router, **make sure that it also has cell reception.**

4. Switch to the "Pictures" tab in the device view of the respective TOM device and **check the first image**





### Movement mode

#### NOTE

Make sure that there are **no areas with "public traffic" in the picture**, such as aisles in a supermarket.



### Insect mode

#### NOTE

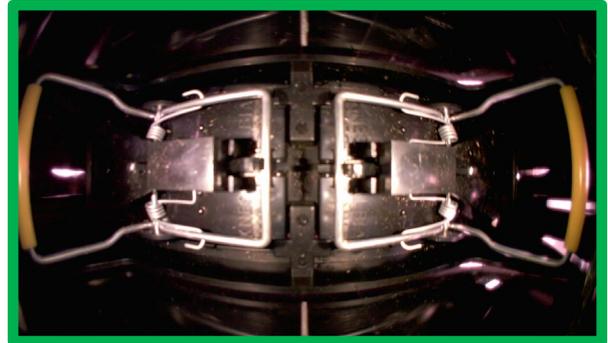
Make sure that **the backing film of the adhesive surface has been removed and that it is completely in the image**.



### Snap trap mode

#### NOTE

Make sure that **all snap traps in the picture are armed**.

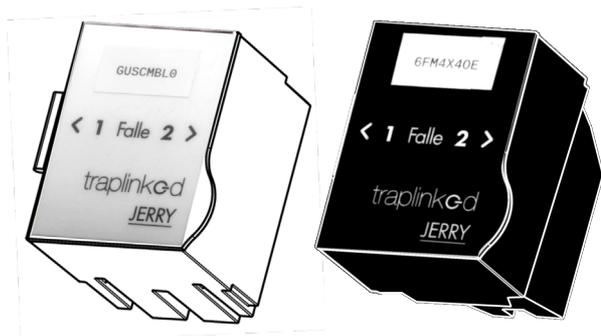


## NOTE

In the first **20 minutes after switching on**, TOM checks whether the WiFi connection on site is also permanently stable. **During this time, the movement detectors are not yet switched on.**

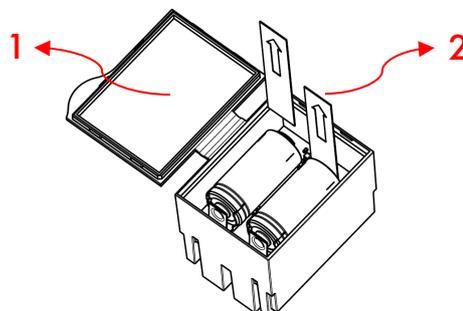
After these 20 minutes, the movement detectors are automatically activated.

## 5.2.4 Switch on and set up – JERRY 1 WiFi



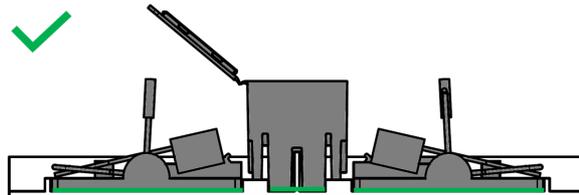
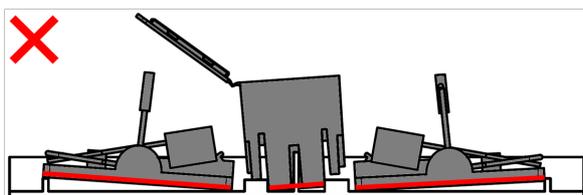
### ⚠ CAUTION

Always switch on devices **exactly** where you want them to be later.

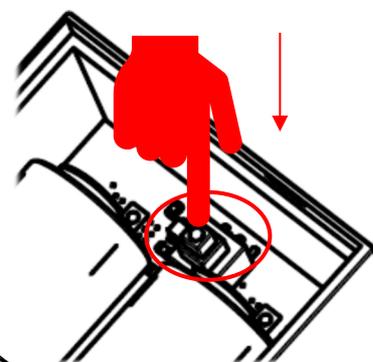
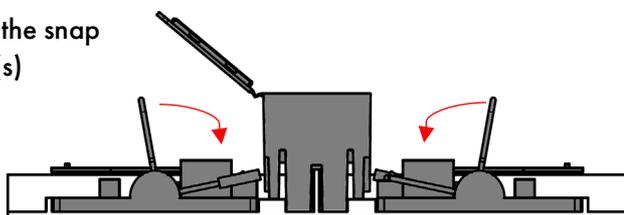


1. Open the cover of the module
2. Remove both battery disconnect strips

3. Make sure that the JERRY module and the snap trap(s) are seated straight



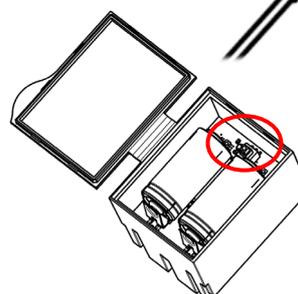
4. Arm the snap trap(s)



5. Press the on/off button. The device flashes green several times and then stops

### ⚠ CAUTION

If your device flashes any **color other than green**, turn it off. Check that the module and impact traps are seated correctly. Switch the device on again.



After switching on, the device establishes an encrypted connection to the WiFi network. This process usually takes no longer than **20 seconds**. After that, your device appears as online in the traplinkød app.



20s



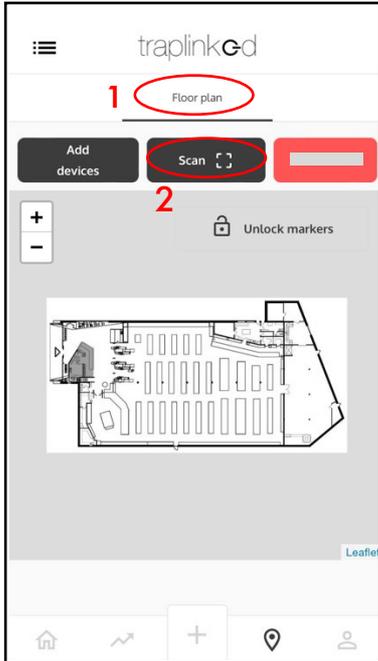
TRAP 1

TRAP 2

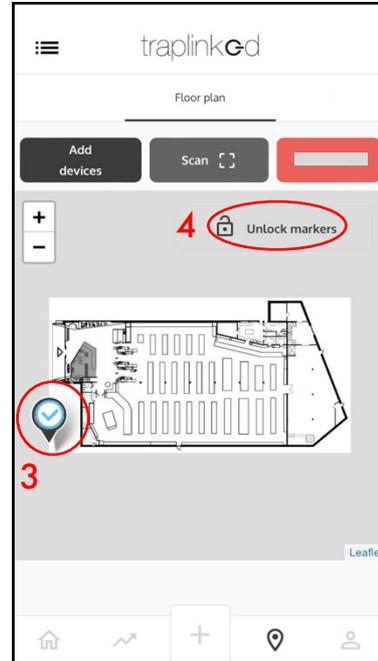
6. Close the lid of the module, close the tunnel / box and carefully place the device at the control point

## 5.3 Place devices in the floor plan

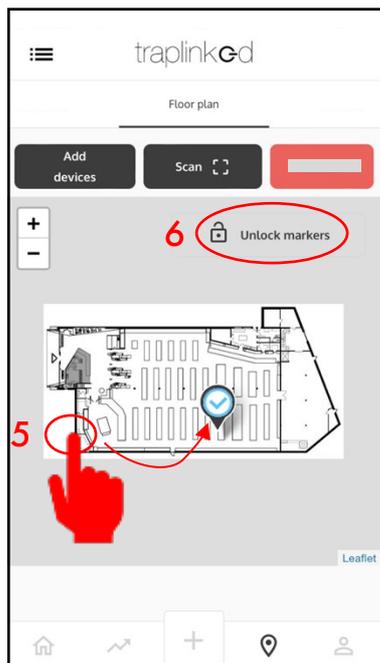
1. Go to the "Floor plan" tab in the parent location
2. Tap "Scan"



3. Scan the QR code of the device, this appears at the bottom left of the floor plan
4. Tap on "Unlock markers"



5. Move the device with your finger
6. Tap on "Unlock markers"



### NOTE

Devices can alternatively also be selected from a list. To do this, tap on "Add from list".

## 6 Control

### NOTE

Both TOM and JERRY devices check in the first 20 minutes after switching on whether the network connection on site is also permanently stable.

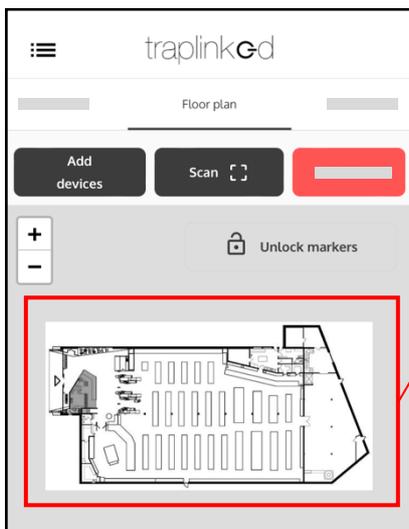
### ⚠ CAUTION

⚠ If an unstable connection is detected for a device during this time, its status is set to **"Unstable connection"**.

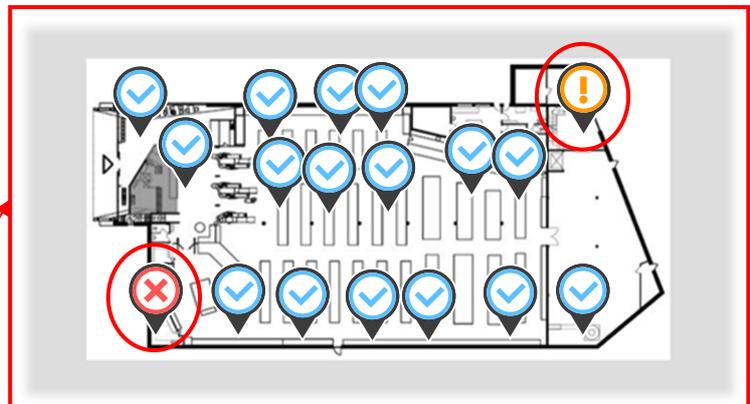
❌ If the connection is definitely not strong enough, its status is set to **"Failed"**.

In both cases, the respective device must be repositioned to an area with stronger reception.

1. Go to the **"Floor plan"** tab in the parent location



2. Check whether devices with yellow or red symbol are present



3. Reposition the affected devices and reboot them

4. Move the devices to the new position in the floor plan as well

### NOTE

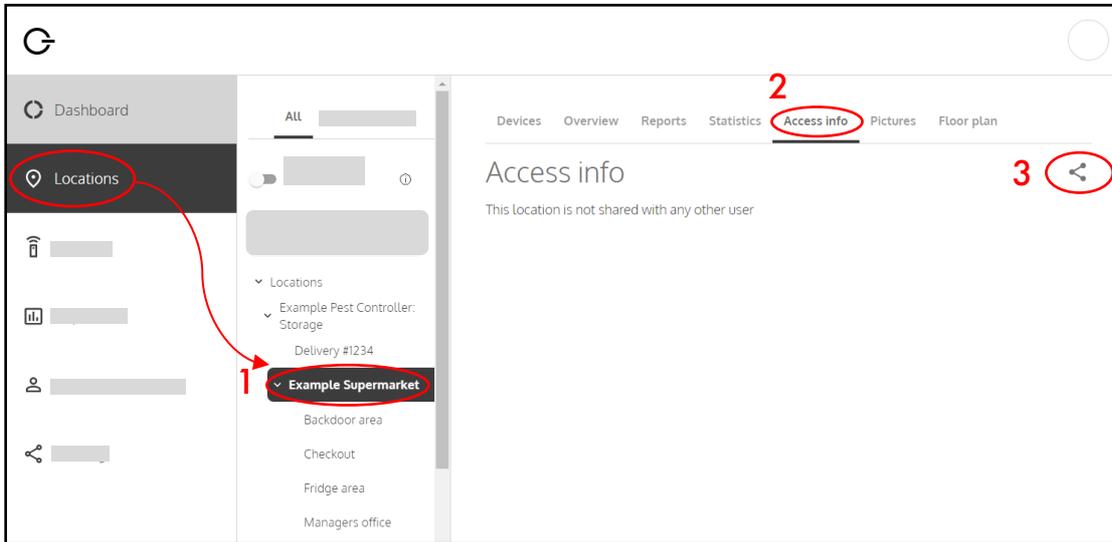
At the end of the setup, all devices should be set to **"Online"** (blue).



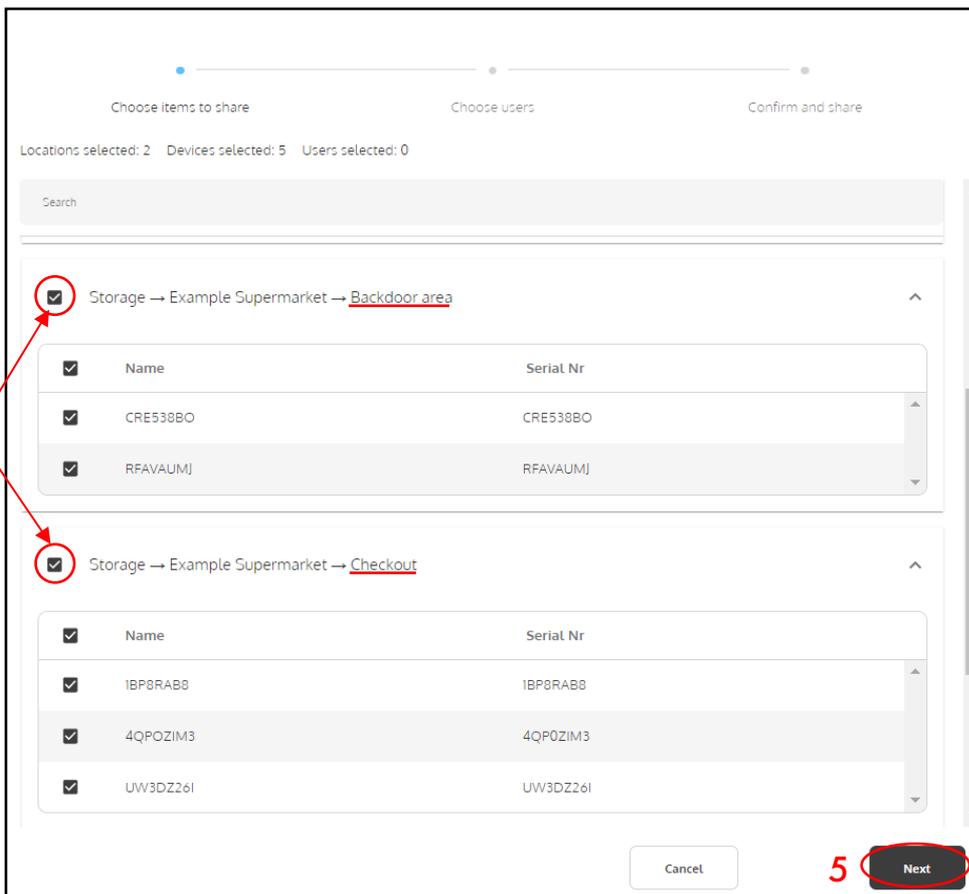
# 7 Sharing

## 7.1 Add customer as observer

1. Switch to the PC and go to the **parent location**
2. Switch to the **"Access info"** tab
3. Click on the **"Share"** icon 



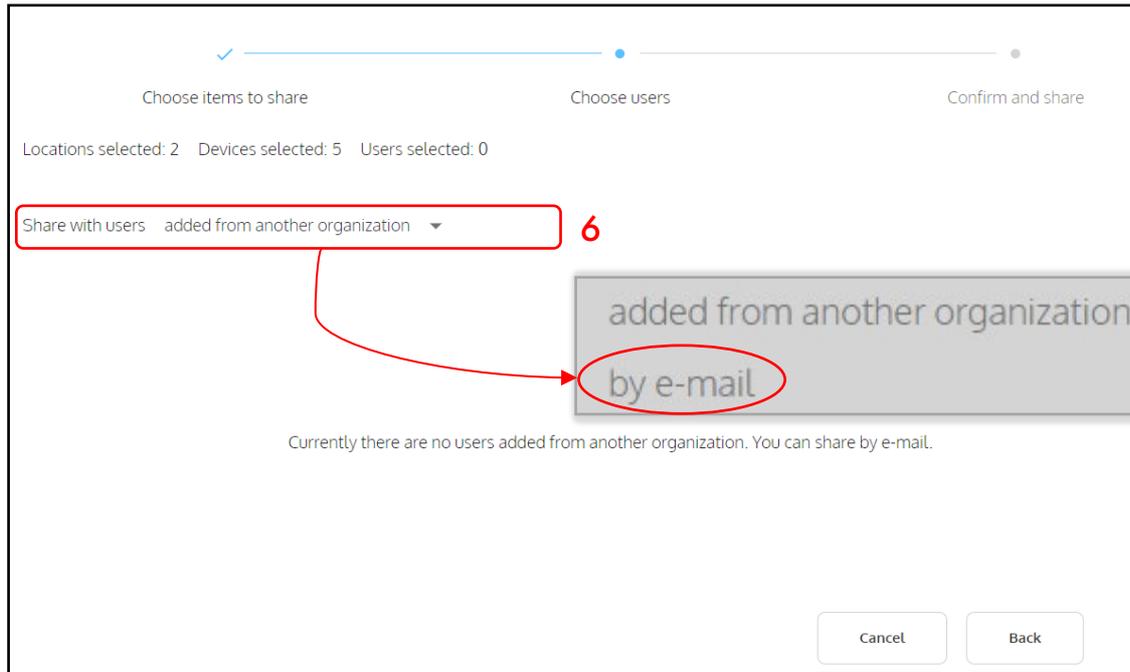
4. Tick all the sub-locations you wish to share with the customer
5. Click on **"Next"**



### NOTE

At this point, certain areas which the customer should not see can also be deliberately excluded.

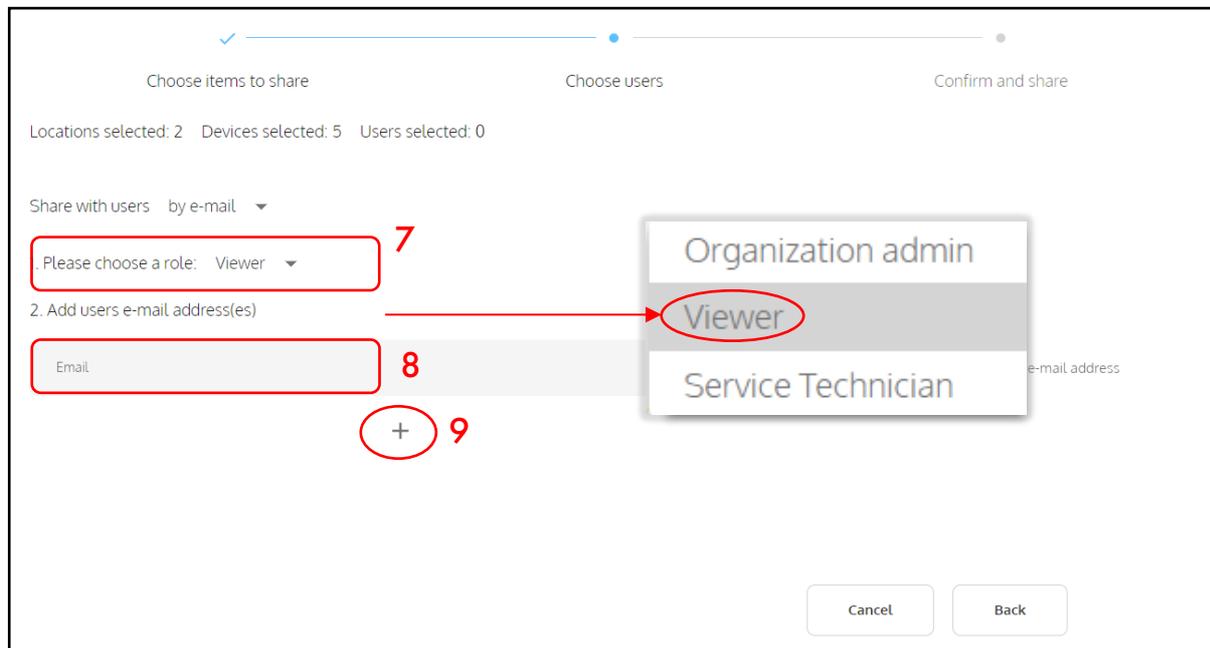
6. Under the "Share with users" option, select the "by e-mail" option



7. Select the "Viewer" role

8. Enter the e-mail address of your customer

9. You can also add several employees of your customer at once via the "+" button



10. Click on

Next

11. Click on

Share

## NOTE

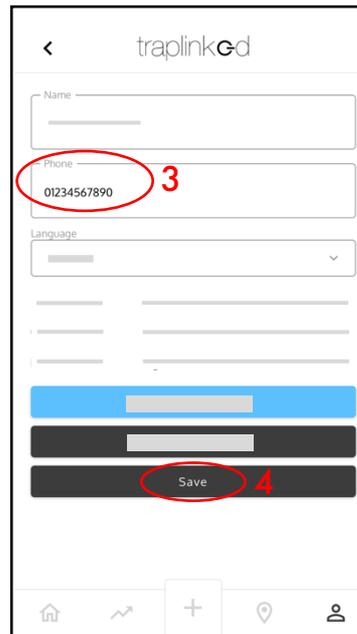
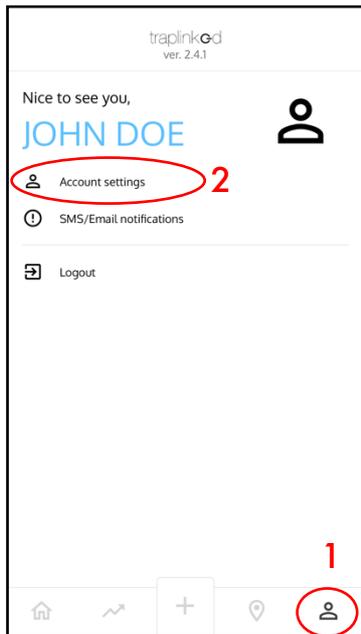
Your customer will now receive an email with access data for his own customer account in the tralinked app. After logging in, he sees his shared locations.

## 7.2 Set notifications

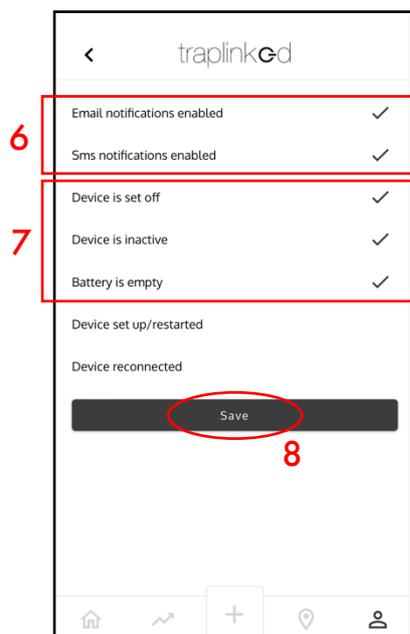
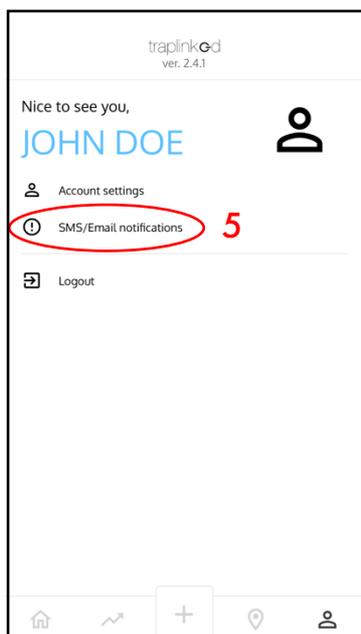
### NOTE

Both the technician assigned to the location and the end customer can individually set their notifications in their respective accounts.

1. Switch to the smartphone and tap on 
2. Tap on "Account settings"
3. Enter **your mobile phone number**
4. Tap "Save"



5. Tap on "SMS/Email notifications"
6. Select the **type of notifications**
7. Choose **what you want to be notified about**
8. Tap "Save"



### NOTE

We recommend the shown settings.

## FURTHER SUPPORT NEEDED?

Call us at our support hotline  +49 911 477 128 50!

The traplinked manual is continuously updated and improved. The latest version is available for download as a PDF file at [www.traplinked.com/anleitung](http://www.traplinked.com/anleitung) (simply scan the QR code on the right).



traplinked **G**d

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innovating pest control