traplinked

innovating pest control

MANUAL FOR THE TRAPLINKED SYSTEM

(All Products)

Version 1.1

TABLE OF CONTENTS

QUICK INSTALLATION

1 App

1.1 Install and log in

Your first delivery includes this **insert**

WELCOME TO TRAPLINKED!

E-Mail: example-pest-controller@traplinked.com
Password: examplepassword

1. Scan the **QR code** and download the **traplinked app**

2. Log in to the **traplinked app** with the **data provided**

3. Optional: Log in to **the PC** at app.traplinked.com with the **same data**

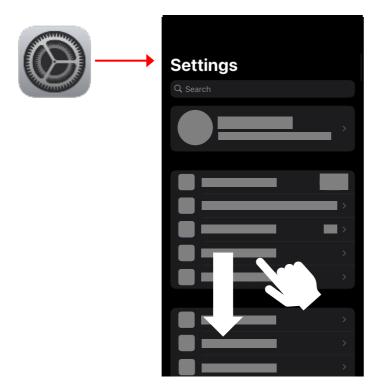**NOTE**
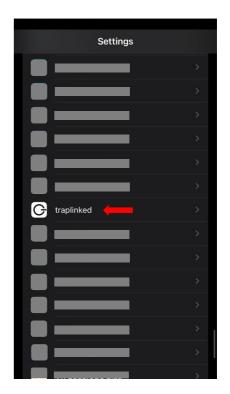
The traplinked app is updated regularly.

Activate **automatic updates** in your **iPhone** or **Android settings** to always use the latest version.

1.2 Settings – iPhone

1. In the **iPhone settings**, scroll down to the traplinked app
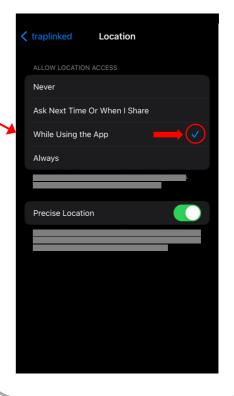
2. Activate the options **"Local Network"**, **"Camera"** and **"Mobile Data"**
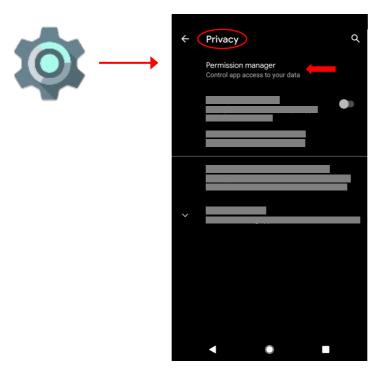
3. Allow access to your **location**
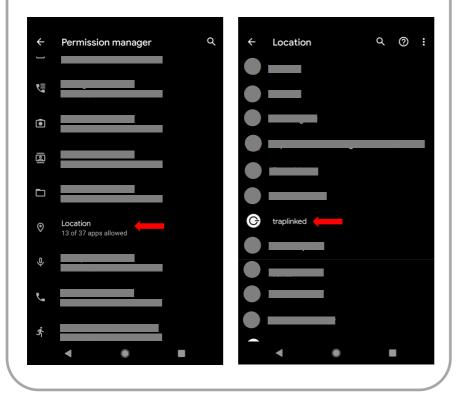
1.3 Settings – Android
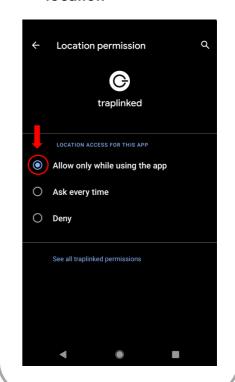
1. In the **Android settings**, go to the **"Privacy"** section and tap on **"Permission manager"**

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

3. Allow access to your **location**
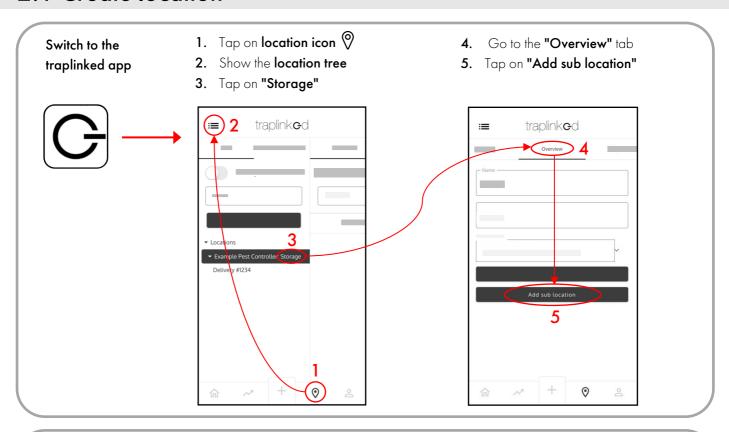
2 Location

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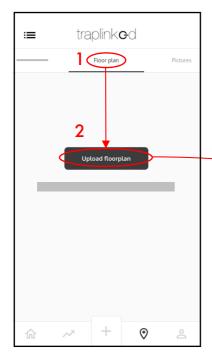
9. Show the **location tree** again
10. Your new location has been created

2.2 Upload floor plan
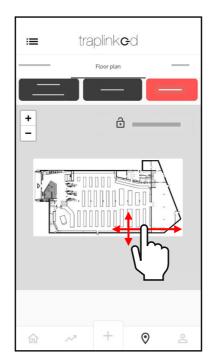
1. Go to the **"Floor plan"** tab in the selected location
2. Tap on **"Upload floor plan"**

3. **Upload a picture of the floor plan**
   Alternatively, you can also take a **photo, e.g.** of the fire protection plan
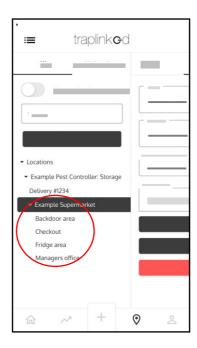
Your floor plan is **saved** and can be **moved by dragging** and **zoomed with two fingers**

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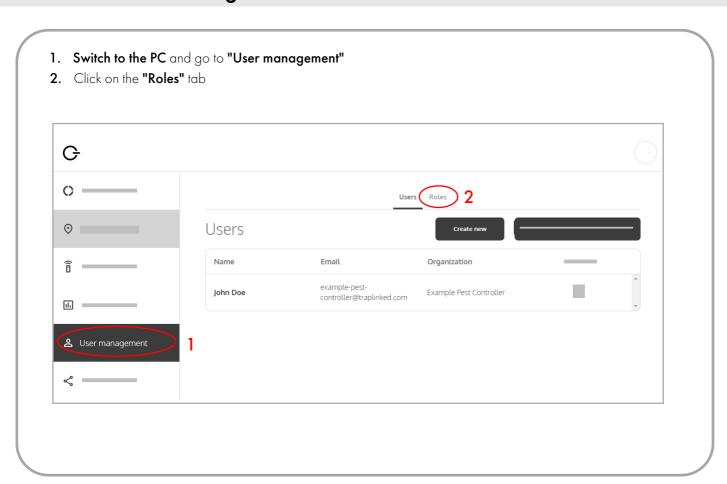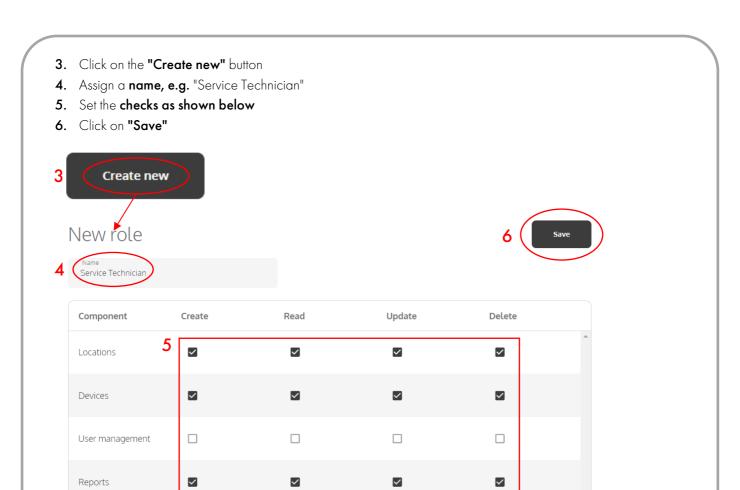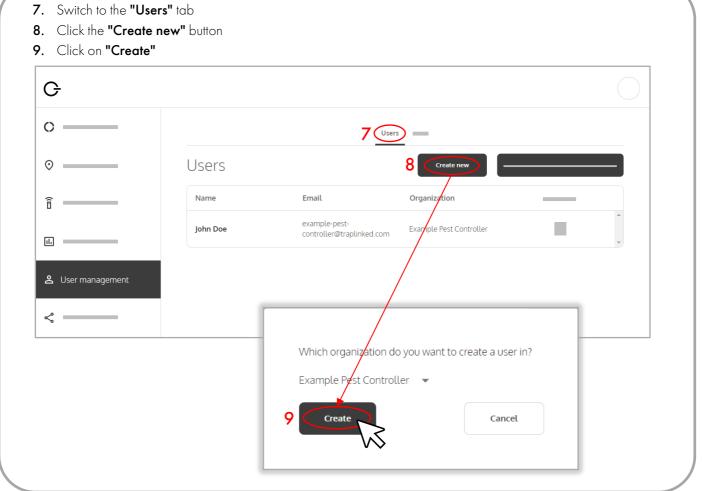
⚠️ **CAUTION**
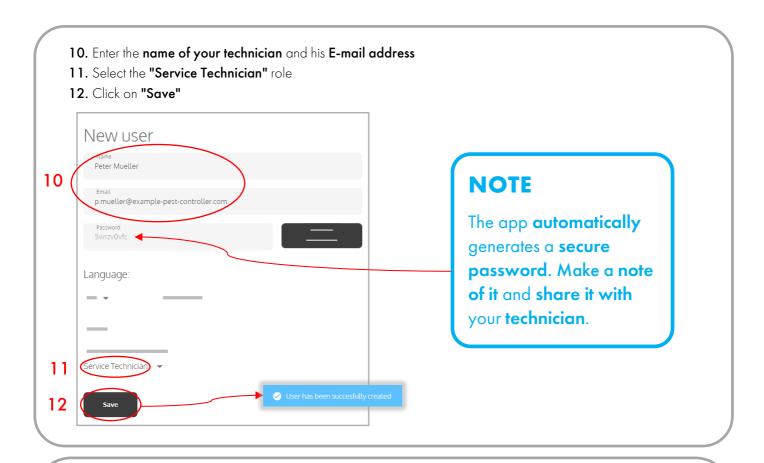
Switch **back to the parent location** each time **before** creating a **sub-location.**

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

6   **Save**

4   Name
    Service Technician

Component	Create	Read	Update	Delete
Locations	☑	☑	☑	☑
Devices	☑	☑	☑	☑
User management	☐	☐	☐	☐
Reports	☑	☑	☑	☑

5

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

7   Users

Users

8   Create new

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

User management

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"**

New user

10

Name
Peter Mueller

Email
p.mueller@example-pest-controller.com

Password
5wrzv0vfc

Language:

11 Service Technician

12 Save   ✓ User has been succesfully 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"**

13 ⊙ Locations

All

Locations
⌄ Example Pest Controller: Storage
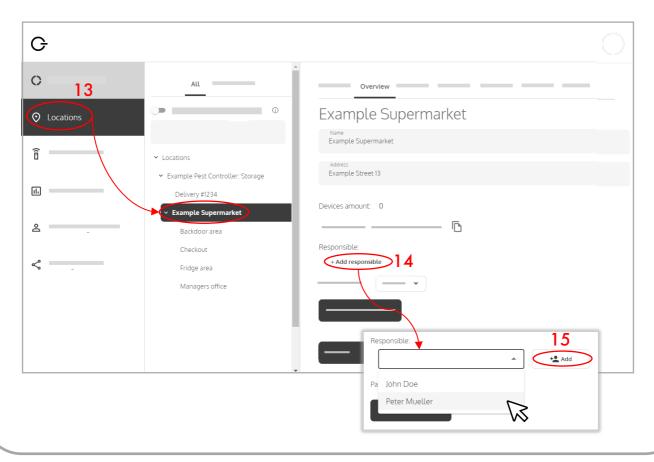Delivery #1234
⌄ **Example Supermarket**
Backdoor area
Checkout
Fridge area
Managers office

Overview

Example Supermarket

Name
Example Supermarket

Address
Example Street 13

Devices amount: 0

Responsible:

+ Add responsible 14

Responsible: 15

                              +⊙ Add

Pa   John Doe
Peter Mueller

If you want to set up <u>JERRY 2 LoRa</u> 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 <u>TOM</u> or <u>JERRY 2 WiFi</u> devices with the associated network, turn to page 18.

NOTE

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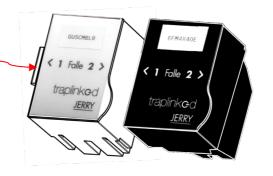

If you want to set up <u>JERRY 1 WiFi</u> devices with the associated network, turn to page 18.

NOTE

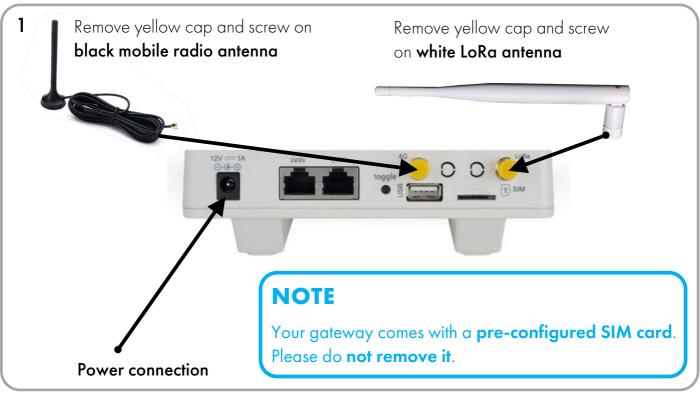You can identify JERRY 1 WiFi devices by the sticker on the module housing.

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**

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

⚠ CAUTION

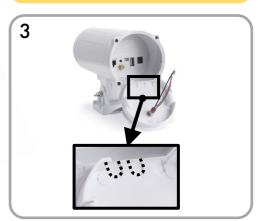If the LED above the symbol 🌐 is **permanently red, the gateway has no cell reception. Please reposition the gateway.**

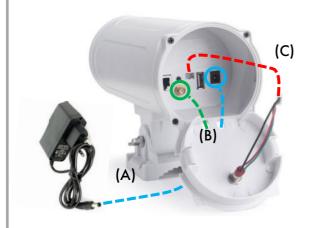## 3.3 Set up the outdoor gateway (DLOS8-4G model)

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

(C)

(B)

(A)

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
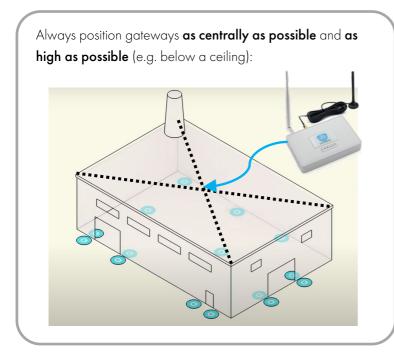
The following ranges from gateway to JERRY are possible:
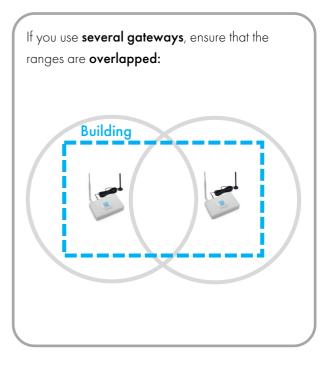
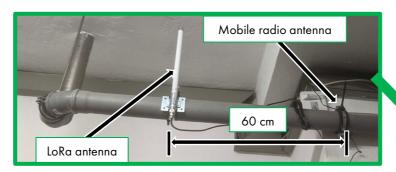|	
Open field (parking lots, farms)	up to **1,000** m
Light buildings (residential, office buildings)	up to **600** m
Medium buildings (supermarkets, department stores)	up to **300** m
Heavy buildings (machine parks, production halls)	up to **100** m

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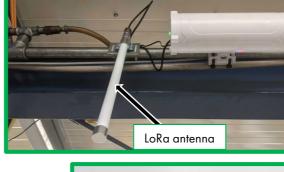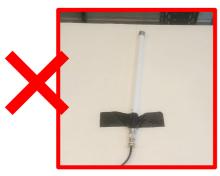
Always position gateways **as centrally as possible** and **as high as possible** (e.g. below a ceiling):

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

Building

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)

Mobile radio antenna

60 cm

LoRa antenna

LoRa antenna

LoRa antenna

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.

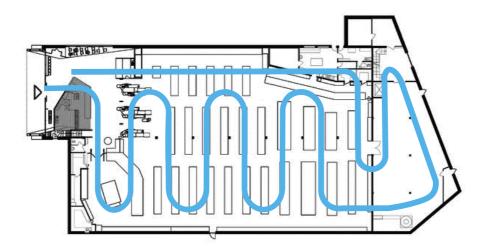If you need further help or are unsure, please **contact traplinked support** for a joint project planning.

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.
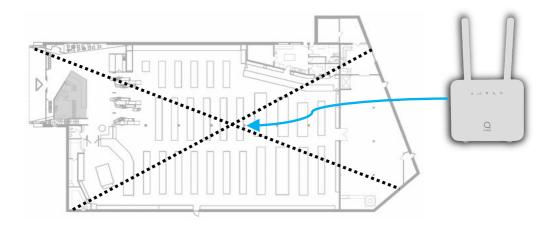
4.2 traplinked router and repeater (Plug & Play)

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
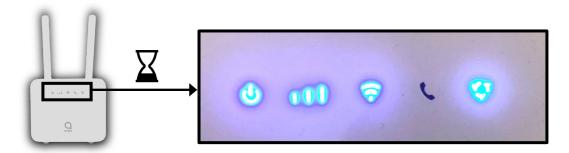

3. Screw on both antennas, plug in the router and attach the sticker

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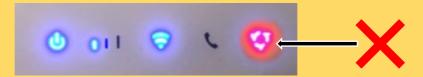
For a long-term stable network, the router should show **at least two bars** of cellular reception.

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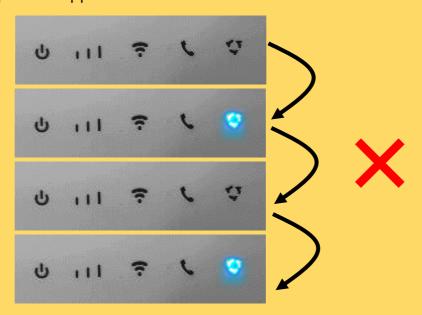
If the **rightmost LED is red**, the router has **no cell reception**.
Please reposition the router.
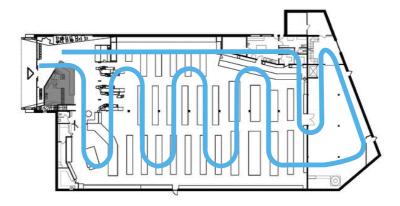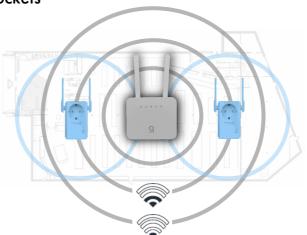

⚠ CAUTION

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

4. **Log in** to the **router's WiFi** on your **smartphone**

5. **Walk around the building** and **check** if there is a **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.

5. If the **WiFi connection** is **not sufficient** in some places, position **one** to a maximum of **two repeaters** as indicated **below.** These should also be plugged into **permanent power sockets**

⚠ CAUTION

Make sure that the **router is really online before you plug in the repeaters**. Check this with your smartphone. Only place the repeater in places where the router's reception measured with **your smartphone has at least two bars of signal strength**.

> ## 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**.

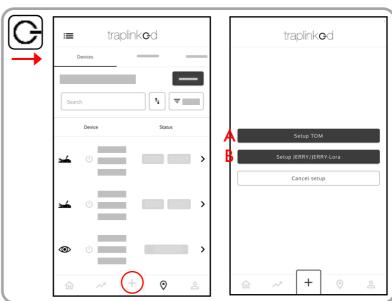1. Connect via your **iPhone** or **Android settings** with the WiFi network

> ## ⚠ CAUTION
>
> **Location access must be enabled** as described in chapter 1.2 or 1.3.

2. Switch to the **traplinked app** and tap the **"+"** button

3. **Select** which **type** of device you want to configure
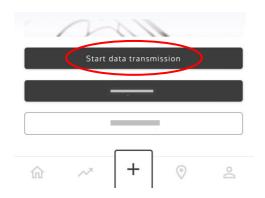
4. **Follow** the **instructions** in the app

<table>
<tr><td>⚠ CAUTION

Make sure that you do not make any typing errors when entering the password.</td></tr>
</table>

5. **Tap** on **"Start data transmission"**

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

7. Tap **"Confirm"** and then **"Done"**
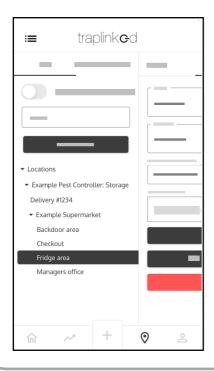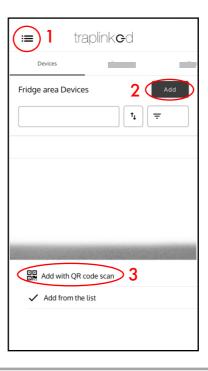

8. **Switch off** your device after successful completion

5 Devices

5.1 Move and rename
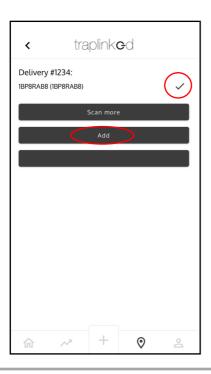
1. Go to the **respective sub-location**

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
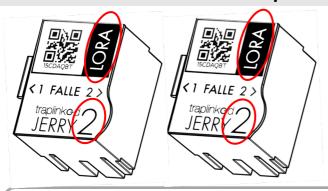
7. Enter a **device name**

8. Tap **"Save"**

Behind the left shelve
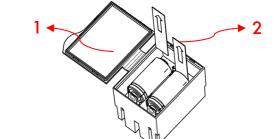
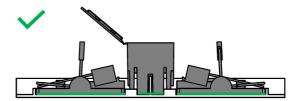## 5.2 Switch on

5.2.1 Switch on and set up – JERRY 2 LoRa
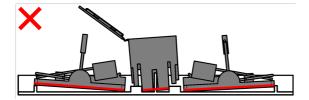
⚠ CAUTION

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)

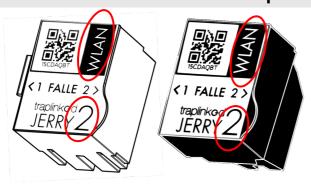5. Press the on/off button. The device flashes blue

⚠ 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 traplinked app.

⏳ 1 min

TRAP 1   TRAP 2

6. Close the lid of the module, close the **tunnel/box and carefully place the device at the control point**
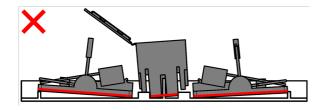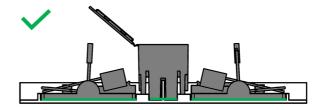
5.2.2 Switch on and set up – JERRY 2 WiFi

> ## ⚠ 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

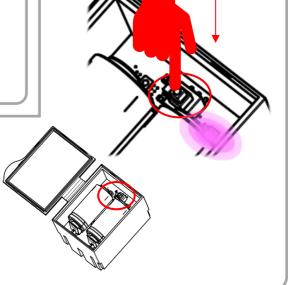3. Make sure that **the JERRY module and the snap trap(s) are seated straight**

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.

⧖ 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**

5.2.3 Switch on and set up – TOM
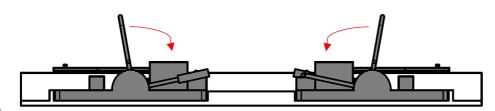
> ⚠️ **CAUTION**
>
> Always switch on devices **exactly where you want them to be later**.
>
> Use your smartphone to make sure that **there are at least 2 bars of WiFi signal** at the installation location of your TOM.

1. Remove the protective cap from the camera

2. Arm the snap trap(s)

> **NOTE**
> Only necessary for TOMs in snap trap mode.

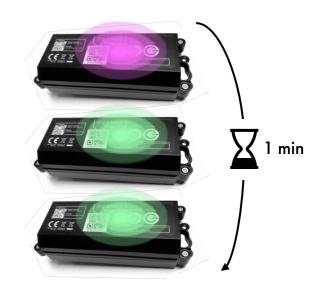3. Press and hold the on/off button for approx. 4s. Release the button as soon as the device flashes white

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.**
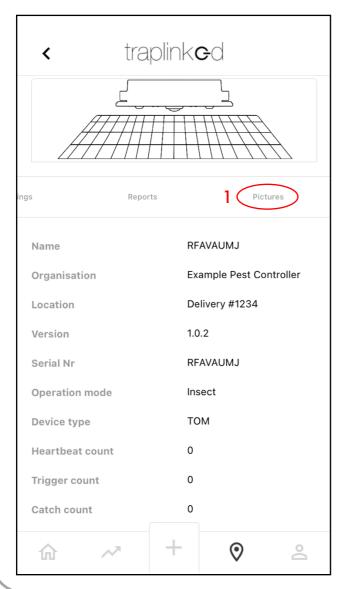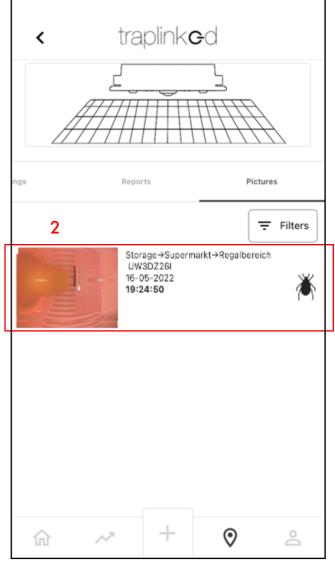

1 min

 Online   Online   Online

28

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**.
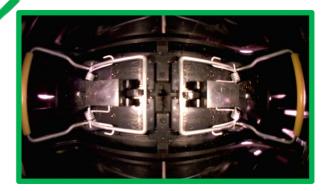
🪤 Snap trap mode

NOTE

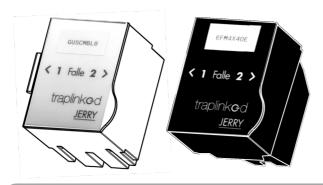Make sure that **all snap traps** in the picture are **armed.**

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.
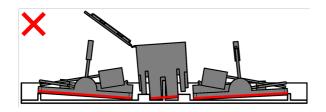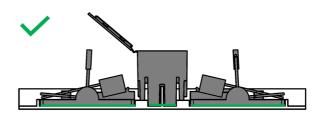
⚠ CAUTION

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 slowly several times and then stops flashing

⚠ CAUTION

If your device starts to **flash green constantly and very quickly**, switch it off. Check that **the module and snap traps are seated correctly**. Make sure that **the WiFi connection strength is sufficiently strong**. Switch the device on again.
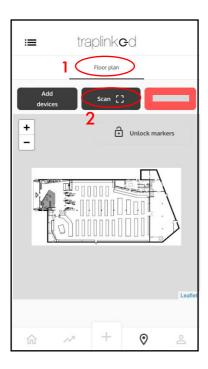
After switching on, the device establishes an encrypted **connection** to the WiFi network. This process usually takes no longer than **20 seconds**. After that, your device appears as online in the traplinked app.
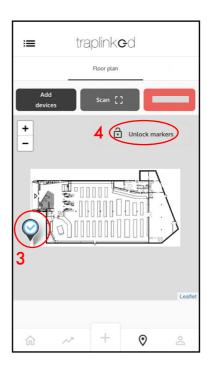
⏳ 20s

⊘ ▬▬▬ 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.**
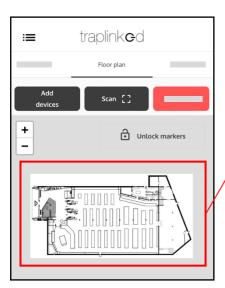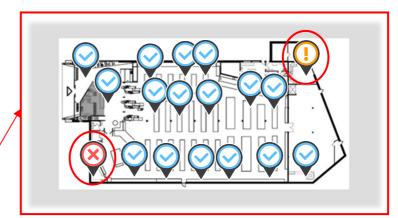
> ⚠ **CAUTION**
>
> 🟠 If an unstable connection is detected for a device during this time, its status is set to **"Unstable connection"**.
>
> ❌ If the connection is definitely not strong enough, its status is set to **"Failed".**
>
> In both cases, the respective device must be repositioned to an area 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**

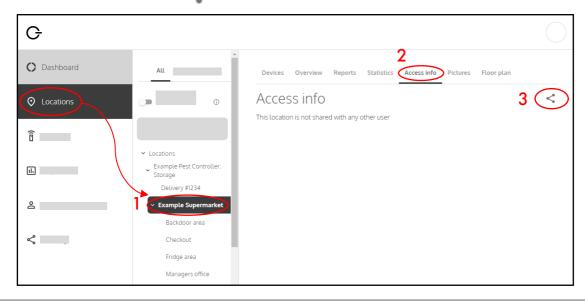4. Move the devices to the new position in the floor plan as well

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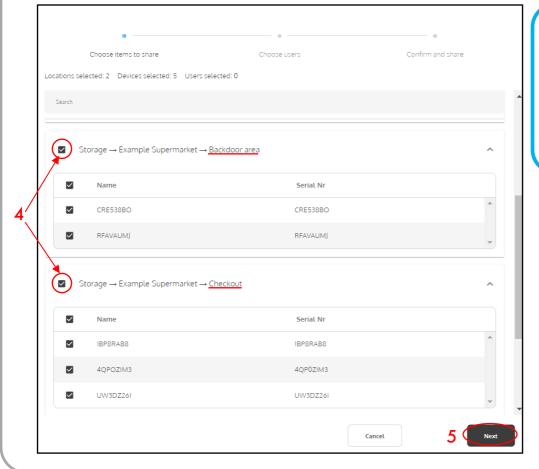> At the end of the setup, all devices should be set to "Online" (blue).

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
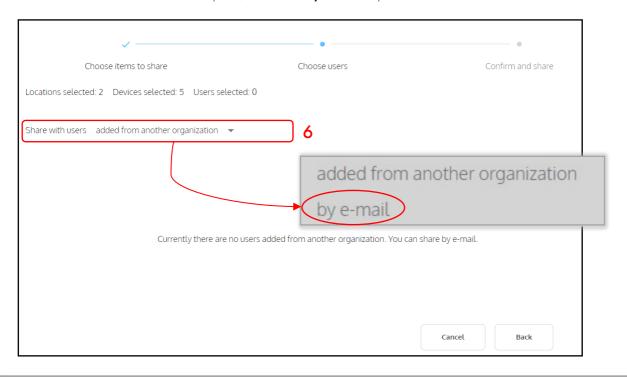3. Click on the **"Share"** icon

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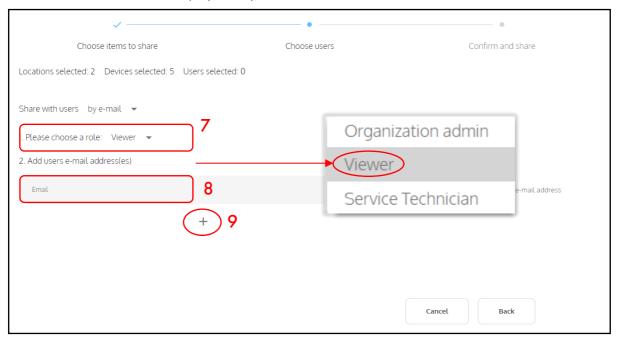5. Click on **"Next"**

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 traplinked 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.

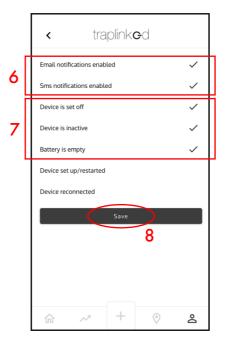1. Switch to the smartphone and tap on 👤
2. Tap on **"Account settings"**

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 (simply scan the QR code on the right).