

Remote monitoring traps with sensor technology

Rappt.IO enables trappers to remotely monitor devices (traps, bait stations etc) using sensors from a growing number of providers. For the trapper on the ground this means a heads up of sensors events in the app, and opt-in notifications via the app and email.

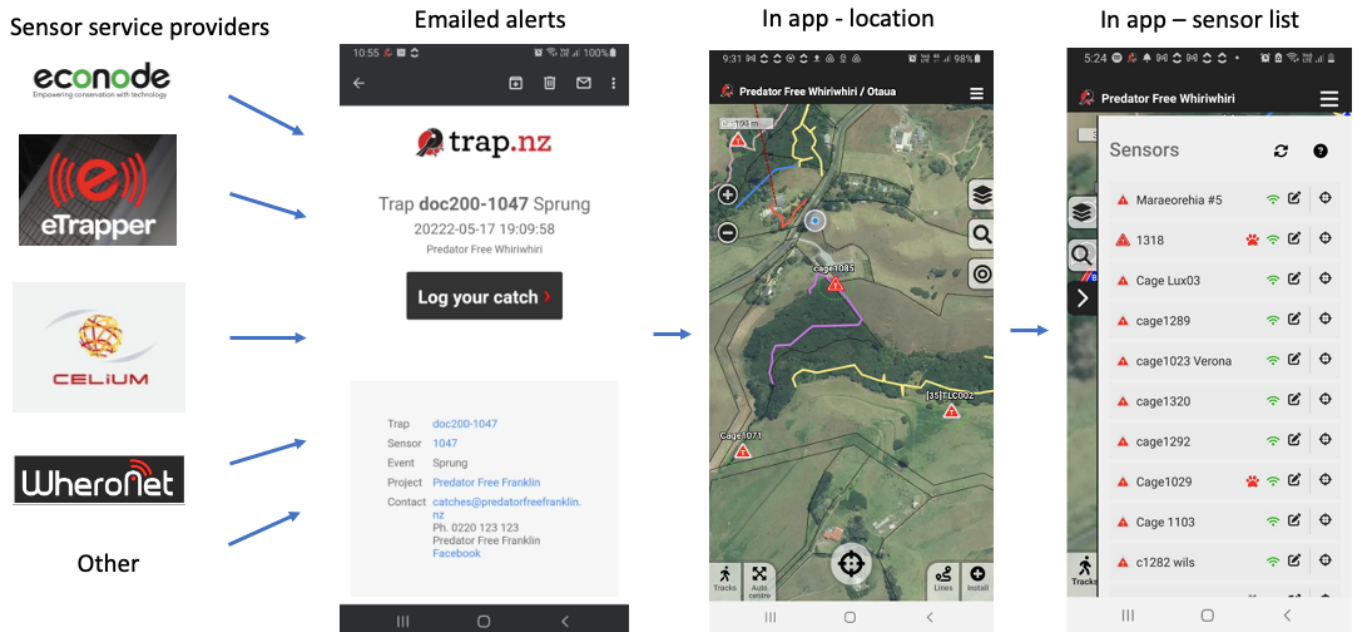
For project coordinators it offers an overview of all sensor devices across one or more projects. This provides not only trap status, but also early incursion warning, accountability for funders, and the social benefits of knowing when to start the k?rero with trappers.

All sensor statuses are viewable in the [Rappt.IO sensor reports](#) - all your sensor providers data in one place.

Please [contact us](#) to become a sensor service provider.

How it works

Remote Monitoring



In New Zealand, it is a legal requirement under the [Animal Welfare Act 1999](#) that all live capture traps must be checked within 24 hours. Breaches are punishable by up to 12 months imprisonment and a fine of up to \$50,000 for an individual or \$250,000 for a body corporate.

Rappt.IO enables trappers to remotely monitor devices (traps, bait stations, etc.) using sensors from a growing number of providers. For the trapper on the ground, this means a heads-up of sensor events in the app and opt-in notifications via the app and email.

For project administrators, it offers an overview of all sensor devices across one or more projects. This provides not only trap status, but also early incursion warning, accountability for funders, and the social benefits of knowing when to start the k?rero with trappers.

Adding a sensor to a trap via the website

1. Through the Projects page select **traps**, - **add a new trap**
2. Complete the required fields

The screenshot shows the 'Create Trap' form on the trap.nz website. The form is divided into several sections:

- Trap number / code ***: A text input field.
- Location ***: A map showing a forested area with several red dots representing traps. A dashed line outlines a specific area. Below the map is a 'Find using Manual coordinates field' button and a 'Manual coordinates' text input field.
- Date installed ***: A date picker showing '4 Aug 2022'.
- Installed by**: A text input field.
- Trap type ***: A dropdown menu with '- Select a value -'.
- Double trap?**: A checkbox.
- Trap sub type**: A text input field.
- Trap line**: A dropdown menu with '- None -'.
- Retired**: A checkbox with a note: 'Check this box if the trap is no longer used (or moved to a different area). The trap will be removed from most displays but historical data will be retained.'

At the bottom of the form, there is a 'More' tab that is currently selected.

4. Under the map open **more** tab and complete the sensor data, required contact fields, and select save

Add a new trap
Add catches
Import traps
Import trap records
Manage traps
Manage trap records

100 m

Find using Manual coordinates field

Manual coordinates

More

Tags

Optionally tag your installation - e.g. with a property name. Tags will be lowercased.

Notes

Images

Upload photos of the trap for reference

Add a new file

Choose File No file chosen

Upload

Files must be less than 32 MB.
Allowed file types: png,gif,jpg,jpeg.

Sensor

Sensor provider

Sensor ID

☒ Send meta data about this trap to my sensor provider?

Contact details

Name

Address

Email

Phone

Save

Cancel

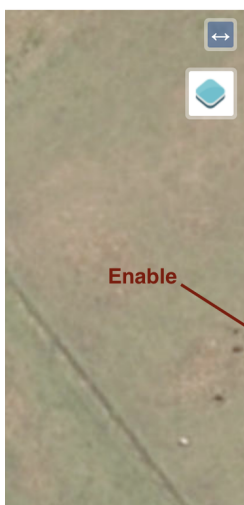
Notifications


1. Turn on notifications on both the **My Account > Edit** page and against each trap

☒ Send me email alerts for sensor traps I'm subscribed to

This setting is a master switch to turn off all notifications for sensor traps. With this setting enabled you will only receive email alerts for traps with automated sensors that you are individually subscribed to (nc default). With this setting disabled you will not receive any notifications for sensor traps you are subscribed to.

2. Enable notifications for each trap



Trap type: Smart Cage
Date installed: 22 Jun 2022
Installed by: Joe Trapper
Total kills: 4
Images:

Sensor ID: 1074
Sensor provider: wheronet
Lat: -37.31356333577
Lon: 174.695726158220

☒ Alert me of sensor events!

Add a supplementary trap

Add a new trap record

3. Administrators have the ability to see who is getting notifications, and to switch on/off notifications for assigned trappers. This is very useful for helping trappers who have email access but don't use the

app:

Assign Users			
Name	Email		Alert of sensor events
W4	W4@rappt.io	Unassign this user	<input checked="" type="checkbox"/> Enabled
W1	W1@rappt.io	Administrator	<input checked="" type="checkbox"/> Enabled
W2	W2@rappt.io	Administrator	<input type="checkbox"/> Disabled
W3	W3@rappt.io	Manager	<input type="checkbox"/> Disabled
W4	W4@rappt.io	Administrator	<input type="checkbox"/> Disabled
W5	W5@rappt.io	Manager	<input type="checkbox"/> Disabled
W6	W6@rappt.io	Manager	<input type="checkbox"/> Disabled
W7	W7@rappt.io	Manager	<input type="checkbox"/> Disabled
W8	W8@rappt.io	Manager	<input type="checkbox"/> Disabled
W9	W9@rappt.io	Manager	<input type="checkbox"/> Disabled
Hide users ^			

Servicing a sensor trap


When a sensor has triggered, the Rappt.IO notification system will send an email and message to the Rappt.IO app. **Do not rely on these notifications for legal coverage**, trappers must still check the status of all sensor traps via the app or website. This ensures that sensors that are not responding are detected, and it covers the scenario when the notifications fail due to network outages, spam filters, etc.

1. The sensor is triggered and the sensor provider sends an email and message via the Rappt.IO App



The website displays the current status with the following icons:

 Active (currently transmitting)

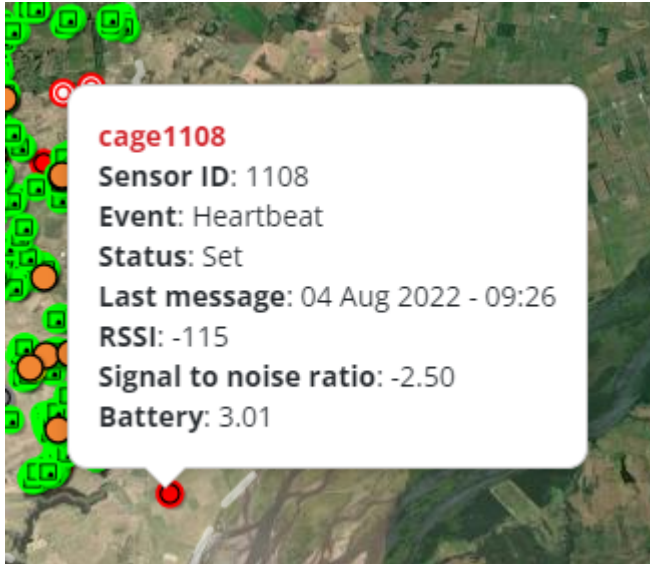
 Active and has sent a sprung event. The trap will show as sprung until a record has been added to indicate it has been reset

● Inactive (the sensor is not transmitting)

● Inactive and sprung (stopped transmitting while still in a sprung state)

Note: ● Indicates a regular trap (no radio sensor attached).

By selecting the installation you are able to see its current status.



All sensor statuses are viewable in the [Rappt.IO sensor reports](#).

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