FORSYTE

PLUS

Basic User Guide

Everything your FORSYTE does, in plain English.

1 Introduction

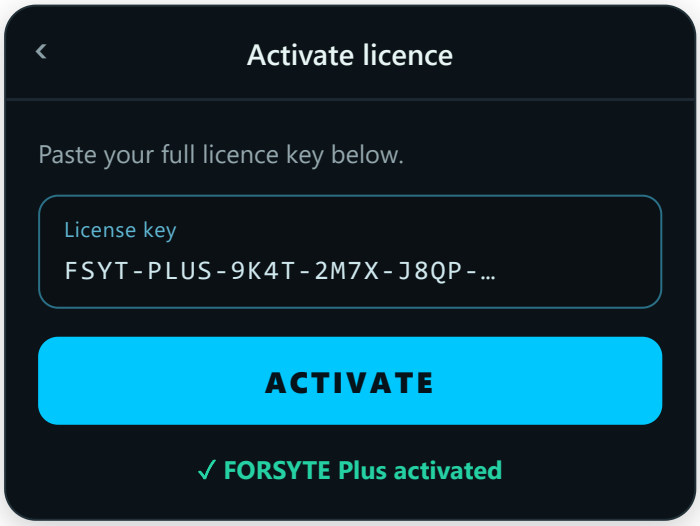
FORSYTE listens for the radio and wireless signals around you and tells you what they are, not in numbers and charts, but in plain words like *"Drone,"* *"Radio comms,"* or *"Jammer."* The clever part is that **FORSYTE works out what each signal probably is for you**, so you don't need any radio knowledge to use it.

FORSYTE runs on **Android phones and tablets**. This guide walks through everything the app does, one area at a time. If you just want to get going fast, see the **Quick Start Guide** first; this one is the fuller reference you can keep.

2 Activate your Plus licence

Before anything else, unlock Plus with your **licence key** (if you don't already have a licence key, you can get one from forsyte.app).

1. Open **Settings** and choose **Activate licence**. (You're also offered this the first time you tap a Plus-only feature.)
2. **Paste your licence key** into the box. It's a long key, so pasting is easiest; a multi-line paste is fine.
3. Tap **ACTIVATE**. When it succeeds you'll see "FORSYTE Plus activated", then tap **CONTINUE**.

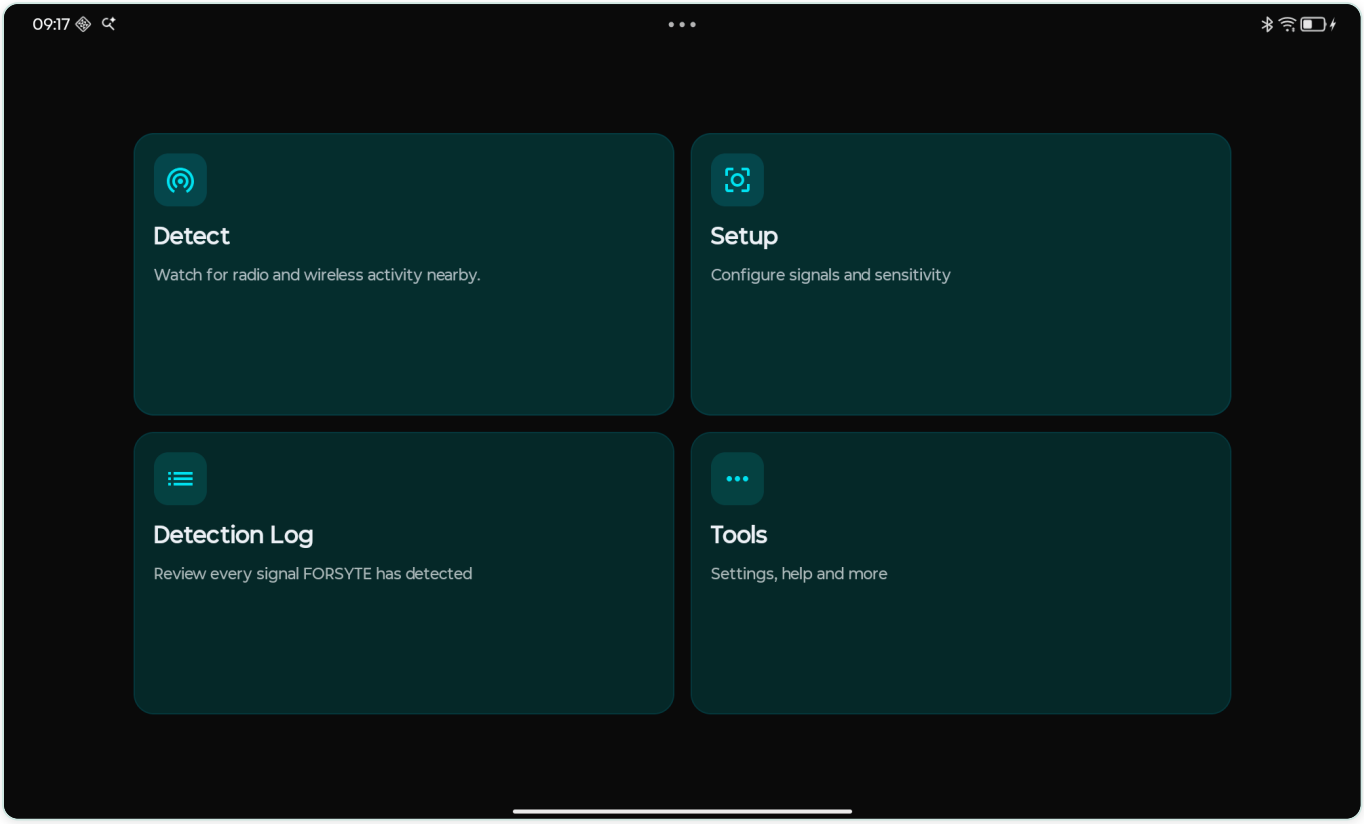


The Activate licence screen: paste your key, then tap ACTIVATE.

3 Finding your way around

When you open FORSYTE you land on the **main menu**. There are four main menu options:

- **Detect**: watch for radio and wireless activity nearby. This is where you spend most of your time.
- **Setup**: choose what FORSYTE should watch for.
- **Detection Log**: review everything FORSYTE has spotted.
- **Tools**: the rest of the kit: Signal View, Direction Finder, Jammer Watch, Saved Signals, Settings and Help.



The main menu: Detect, Setup, Detection Log and Tools.

4 Choosing what to watch (Missions)

Tap **Setup**. Rather than setting frequencies by hand, you pick a **mission**: a plain-English card for the job you want to do:

> **Scan for drone signals** drone ID beacons, drone controllers, and video links.

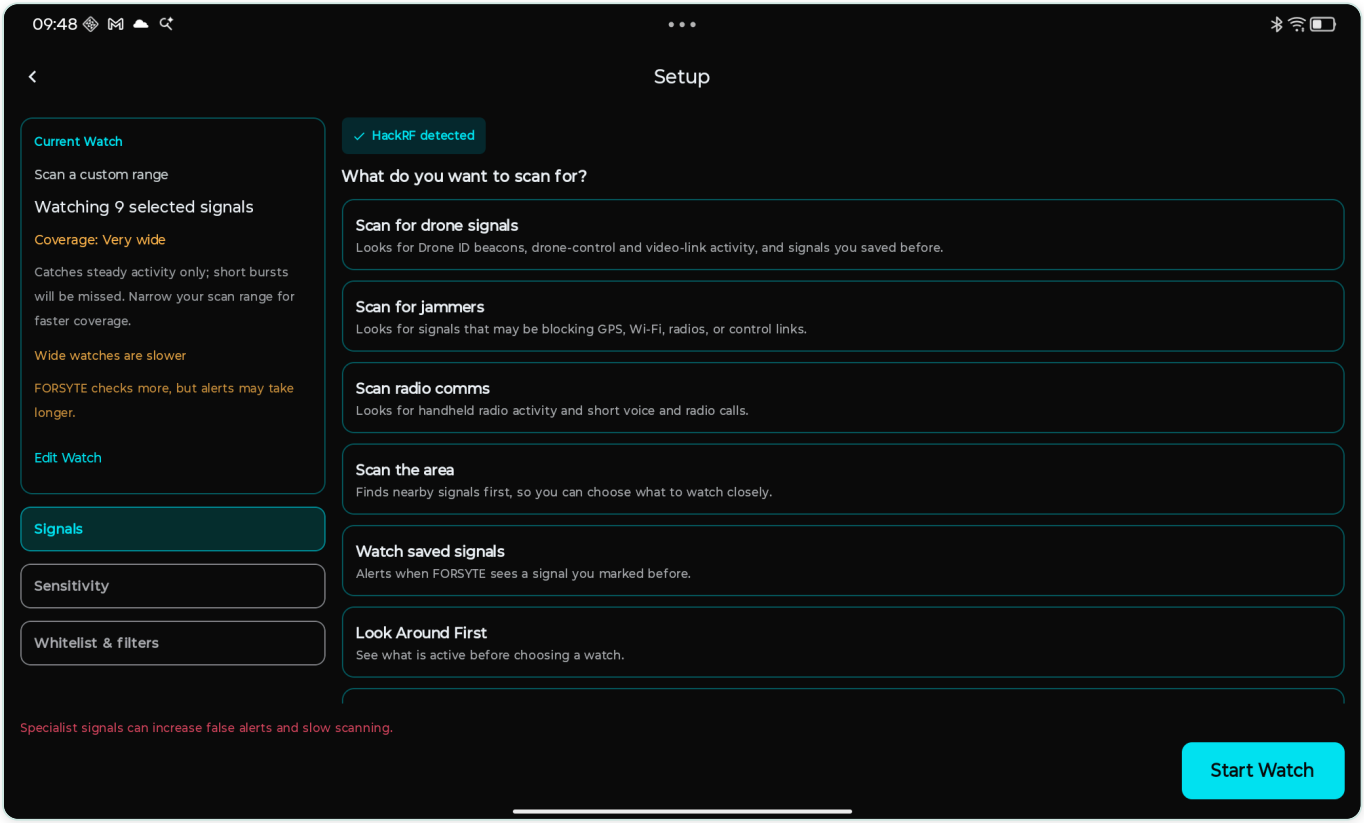
> **Scan for jammers** signals that may be blocking GPS, Wi-Fi, radios, or control links.

> **Scan radio comms** handheld radio chatter and short voice calls.

> **Scan the area** finds whatever's nearby first, so you can pick what to watch closely.

> **Watch saved signals** alerts you when a signal you marked before shows up again.

Tap a card and FORSYTE sets itself up for that job, no frequencies, no jargon. You can switch missions any time. (There's also an **Advanced setup** option if you ever want to set an exact frequency yourself.)



The Setup screen, where you pick a mission to scan for.

5 The Detect screen

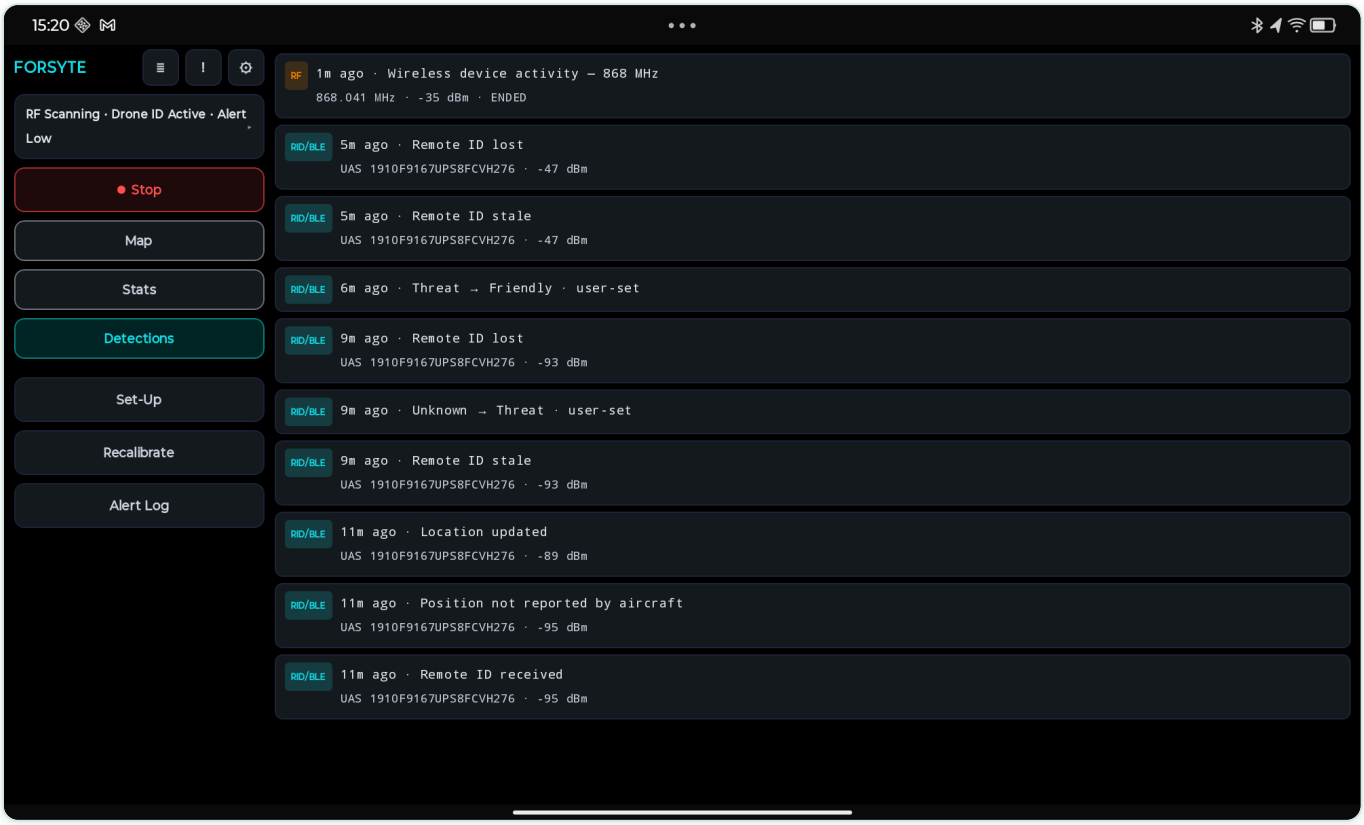
Tap a mission (or **Detect** → **Start Watching**) and FORSYTE starts listening. The Detect screen has three views:

- **Map**: everything shown on a map around you (see next section).
- **Stats**: what FORSYTE is scanning right now.
- **Detections**: the live list of what's being picked up, each signal already named.

Each detection appears in the list **already named**, for example:

Radio comms · 446.000 MHz · -72 dBm · *15s ago*

You get the plain-English label first (what it likely is), then the detail if you want it: the frequency, how strong the signal is, and how long ago it was last seen.



Live detections, each already named with its frequency, strength and time.

6 The live map

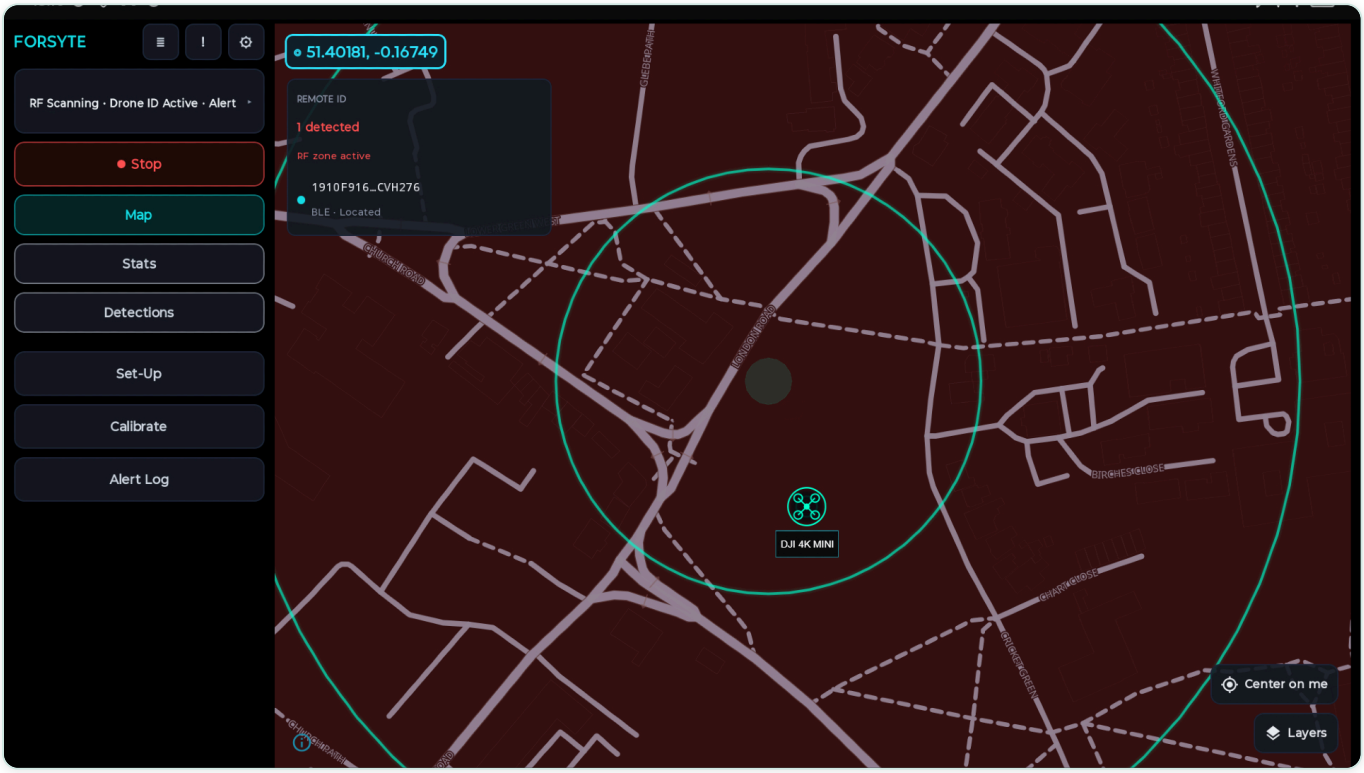
The **Map** tab puts everything around you in one picture:

- **You** are in the centre, with **distance rings** so you can judge how far away things are.
- After FORSYTE picks up a radio signal, a shaded **detection zone** appears for a short while to show roughly where activity is.
- **Drones** show up as small drone icons you can tap.

Each drone icon is colour-coded by how you've classified it:

Cyan	a drone FORSYTE is tracking that you haven't labelled yet (the normal “I see it, unknown” state).
Green	you marked it **Friendly**.
Amber	you put it on your **Watchlist**.
Red	you marked it a **Threat**.

> **Important:** FORSYTE never calls a drone a threat by itself. Red only ever appears because *you* set it. Tap the fullscreen button for the big map view.



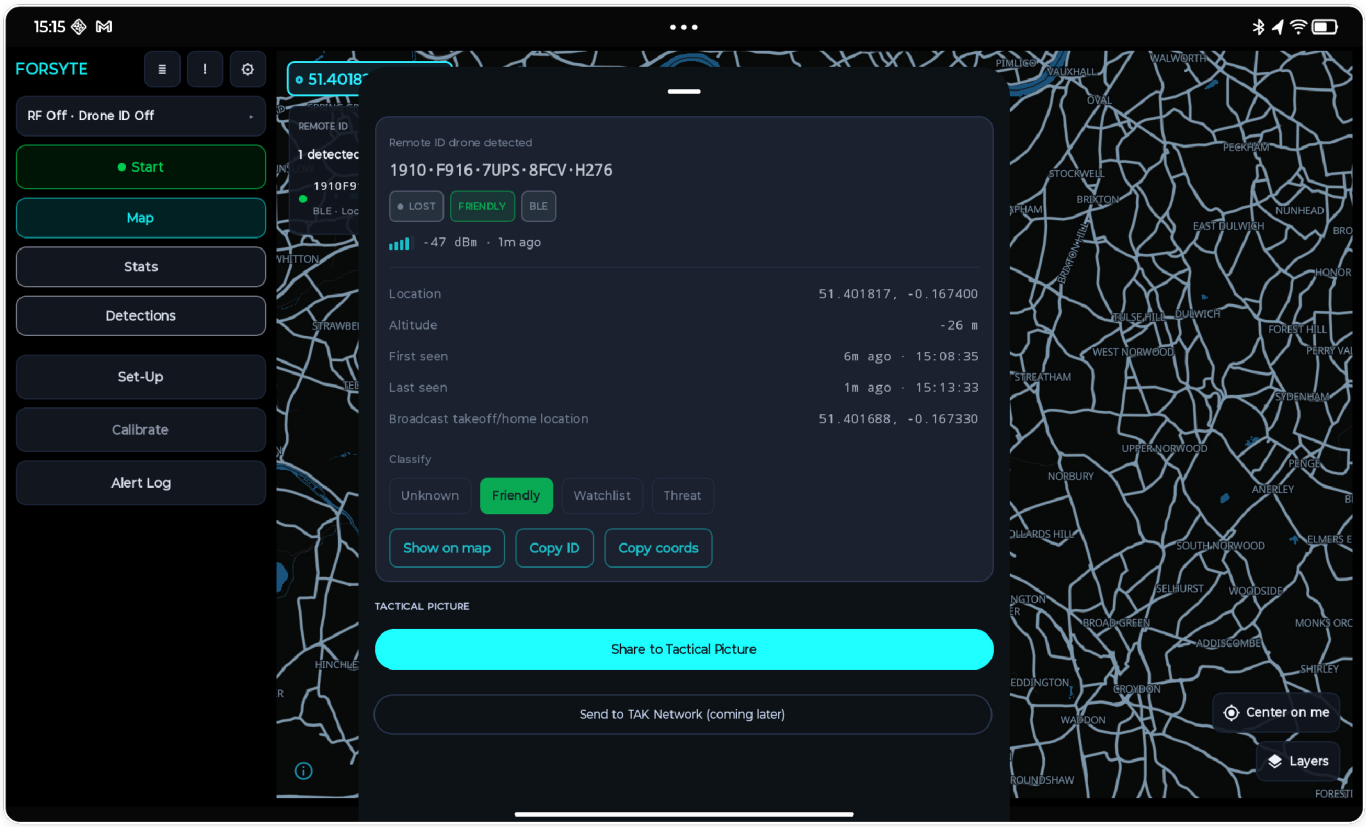
The live map: you in the centre, distance rings, and a tracked drone.

7 Drones & Remote ID AUTOMATIC

Most modern drones are required to broadcast a **Remote ID**: a wireless “licence plate” with the drone's ID, and often its position and its operator's position. **FORSYTE listens for these automatically** whenever you're watching. You don't switch anything on.

It does this over **Bluetooth and Wi-Fi**, so it doesn't tie up your radio sensor: drone-spotting and signal-watching run at the same time. The first time, allow the **Bluetooth** request when it appears.

Tap any drone (on the map or in the Drone ID list) to see what it's broadcasting and to label it.



A drone's detail card: its ID, position, and the Classify buttons.

8 Making sense of signals

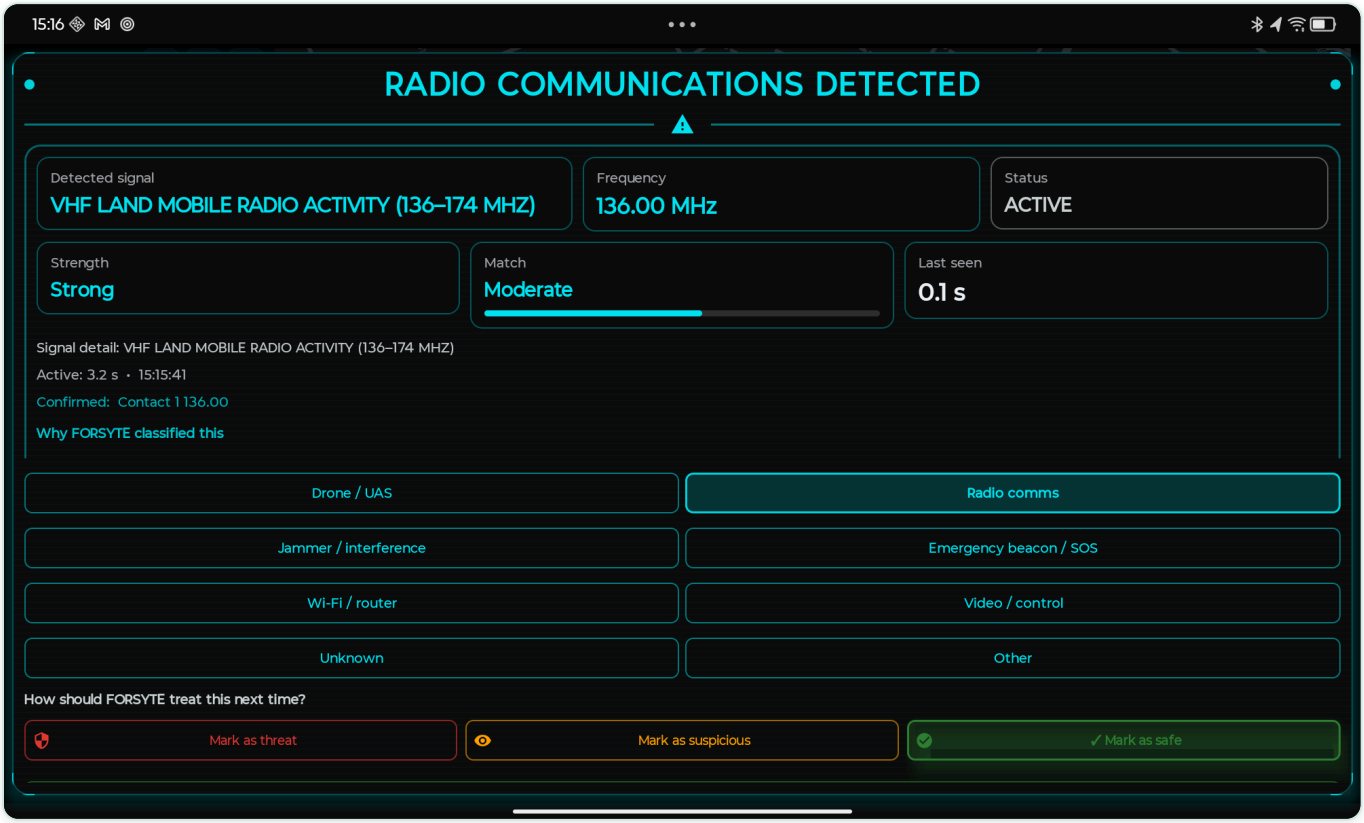
FORSYTE decides each label by the signal's pattern (where it sits, how it behaves, and how it compares to known signal types), then shows you its best plain-English guess. You stay in control of what happens next.

To mark a signal in the list, tap it. You can:

- **Dismiss** it: clear it for now, no label saved; or
- **Label** it: tell FORSYTE two quick things:
    1. **What it was**: Drone, Radio comms, Jammer / interference, Emergency beacon, Wi-Fi, Video / control, Unknown, or *Other* (type your own).
    2. **How to treat it next time**: **Alert me**, **Suspicious**, **Safe**, or **Mute / ignore**.

Choosing **Alert me** asks you to confirm (*"Mark as Alert?"*): use it for things your team has agreed are worth a full alert. Next time a matching signal appears, FORSYTE remembers your choice.

To classify a drone, tap its icon to open its card and choose **Friendly**, **Watchlist**, or **Threat**. The colour changes straight away.



Marking a signal: what it was, then how FORSYTE should treat it next time.

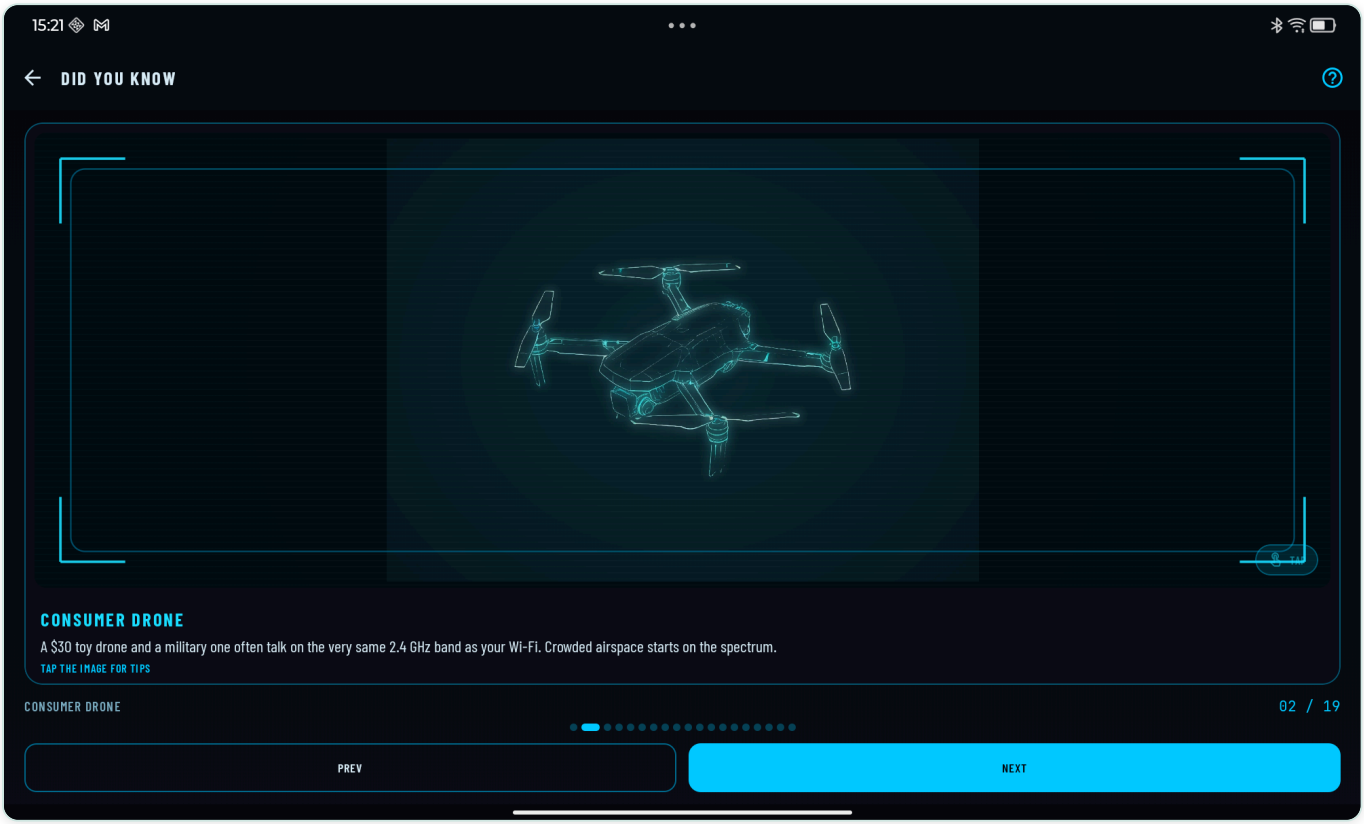
9 Learn as you go: Did You Know

FORSYTE has a built-in learning library called **Did You Know** (under **Tools**), and there's a lot packed into it. It's a set of **illustrated cards**, one for each kind of signal FORSYTE comes across. For each one it explains, in plain English:

- **What it is**: a quick, interesting fact about the signal.
- **How FORSYTE spots it**: what gives that signal away.
- **Where it lives**: the frequencies it typically uses.

The cards cover the everyday and the specialist alike: **consumer drones**, **one-way-attack drones**, **Wi-Fi** and **Bluetooth** devices, **item trackers** (like AirTags), **push-to-talk radios**, **mobile phones**, **aircraft (ADS-B)**, **ships (AIS / VHF)**, **satellites**, **radar**, **vehicle key fobs**, **tyre-pressure sensors**, **smart doorbells**, **rail radio**, **LoRa / IoT sensors**, **distress / SOS beacons**, and more.

It's the easiest way to build a feel for the signals around you: no radio background needed.



A Did You Know card: a plain-English fact and the frequencies it uses.

10 Saved Signals

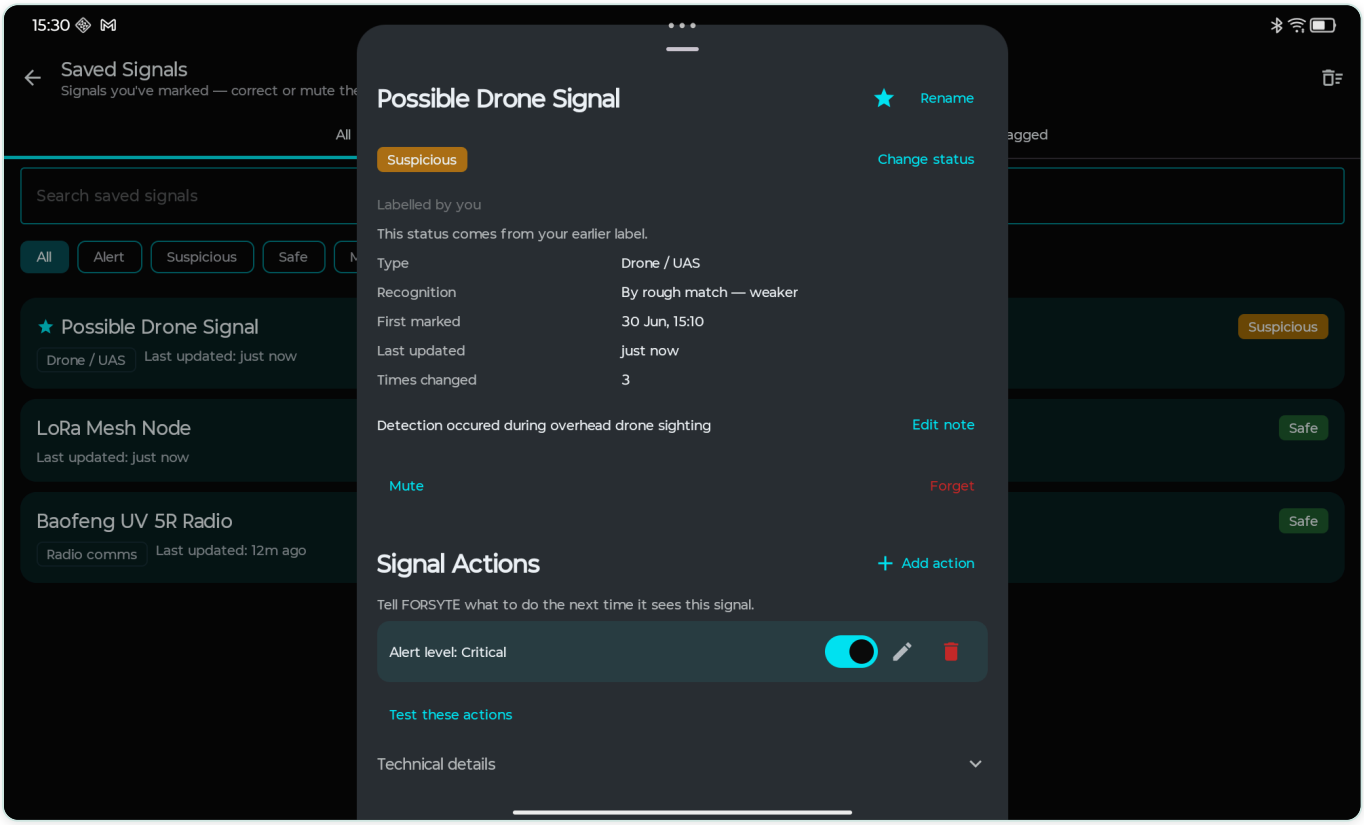
This is one of FORSYTE's most powerful features. Every signal you label is kept in **Saved Signals** (under **Tools**): your personal library of the signals that matter to you.

Saving a signal effectively **teaches FORSYTE to recognise that exact device**. Give it an action and FORSYTE will watch for that signal and alert you the moment it reappears, even while you're running a completely different watch. It's like giving a bloodhound a scent: once FORSYTE has it, it can pick that signal out of everything else around you.

From Saved Signals you can:

- **Set what happens next time**: have FORSYTE alert you (up to a critical alert) whenever it sees this signal again.
- **Rename** or **re-label** a signal if you got it wrong.
- **Mute** a known, harmless signal so it stops alerting you.
- Feed the **Watch saved signals** mission, which alerts you only when one of your saved signals reappears.

> On Plus your saved-signals library is **unlimited**.



Saved Signals: rename, re-label, mute, or set an action for a marked signal.

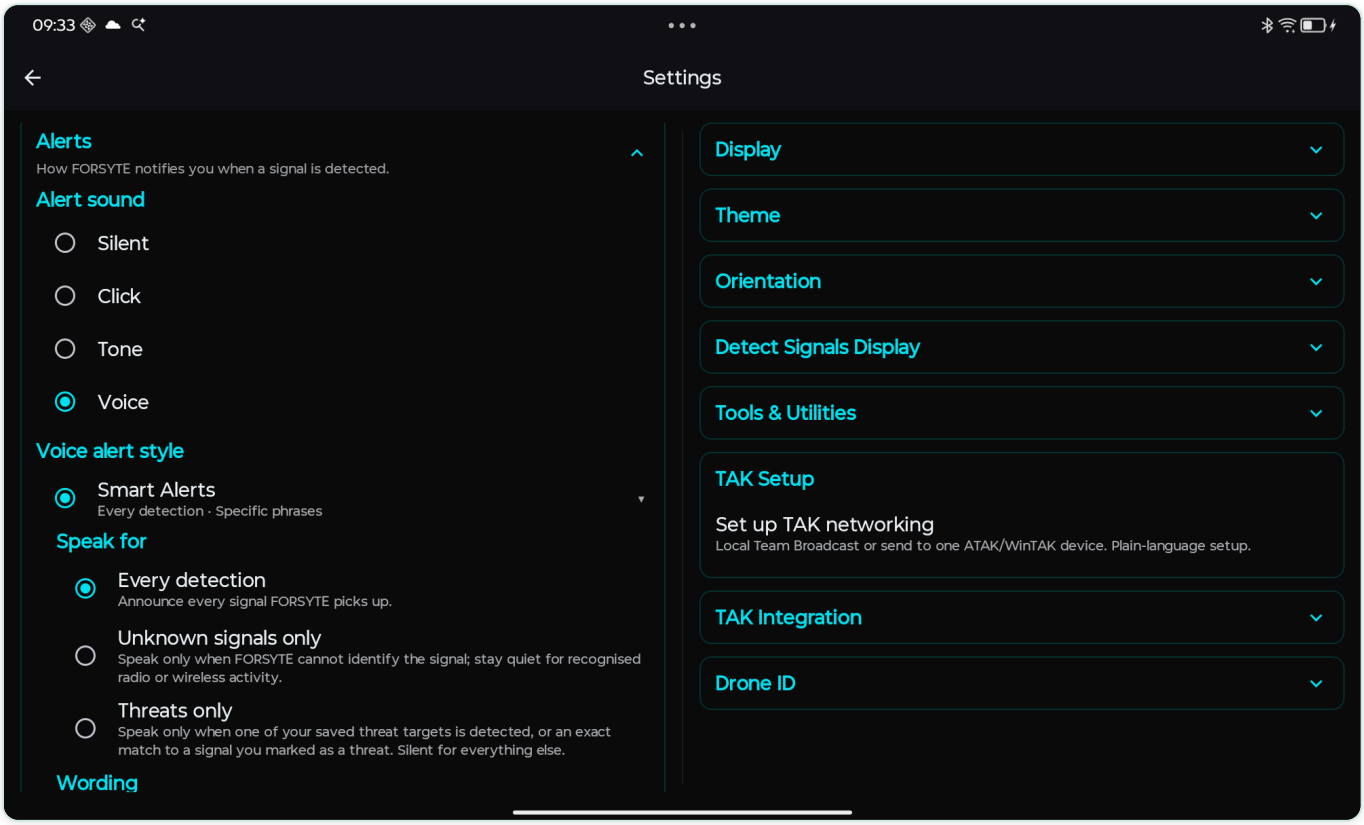
11 Alerts & voice

When FORSYTE detects something it can alert you in several ways, all adjustable in **Settings** → **Alerts**:

- **Alert sound**: **Silent**, **Click**, **Tone**, or **Voice**.
- **Vibration**: on or off.
- **Screen flash**: on or off.
- **Auto-dismiss**: clear an on-screen alert automatically after **15 seconds**.

With **Voice** turned on, FORSYTE *speaks* each alert so you can keep your eyes up and your phone in your pocket. You can also choose when it speaks: for **every detection**, for **unknown signals only**, or for **threats only**. You'll hear things like:

> *"Drone detected."* · *"Radio communications detected."* · *"Possible signal jammer detected."* · *"GPS interference detected."*
> …and *"Threat detected"* for anything you've marked as a threat.



Settings: Alerts, with Silent / Click / Tone / Voice and the voice style.

12 Your Plus tools

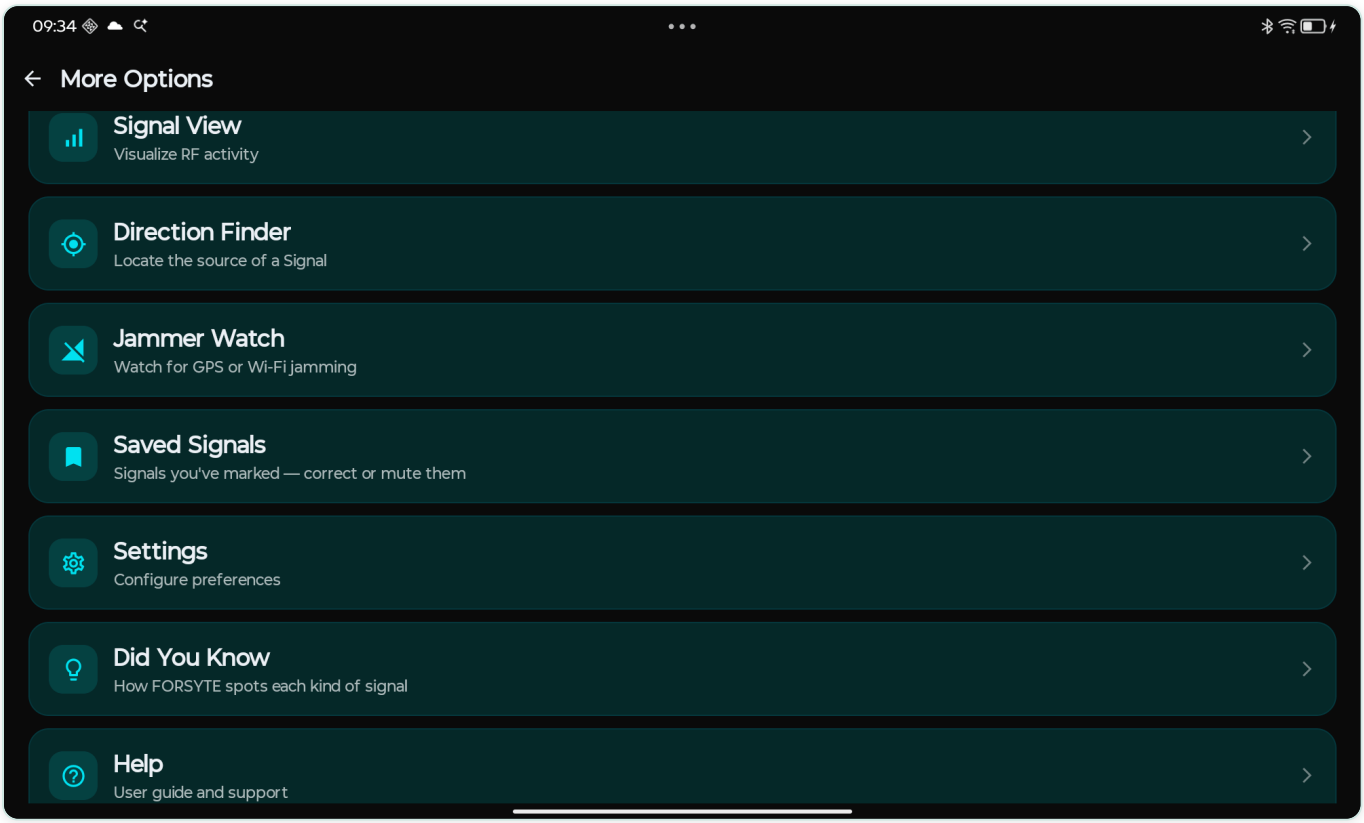
Open **Tools** for the kit your Plus licence unlocks:

Signal View: a live picture of the radio activity across the **wide band**. Spot busy areas, mark a frequency, and hand it straight to a watch. *(If an older phone struggles, turn on **Low-FPS mode** in Settings; it just smooths the display; detection is unaffected.)*

Direction Finder PLUS: points you toward where a signal is coming from, and can log and export bearings. Works on **any sensor**.

Jammer Watch NEEDS HACKRF: watches for **GPS** and **Wi-Fi (2.4 GHz)** jamming nearby.

Did You Know: the learning library from section 9.

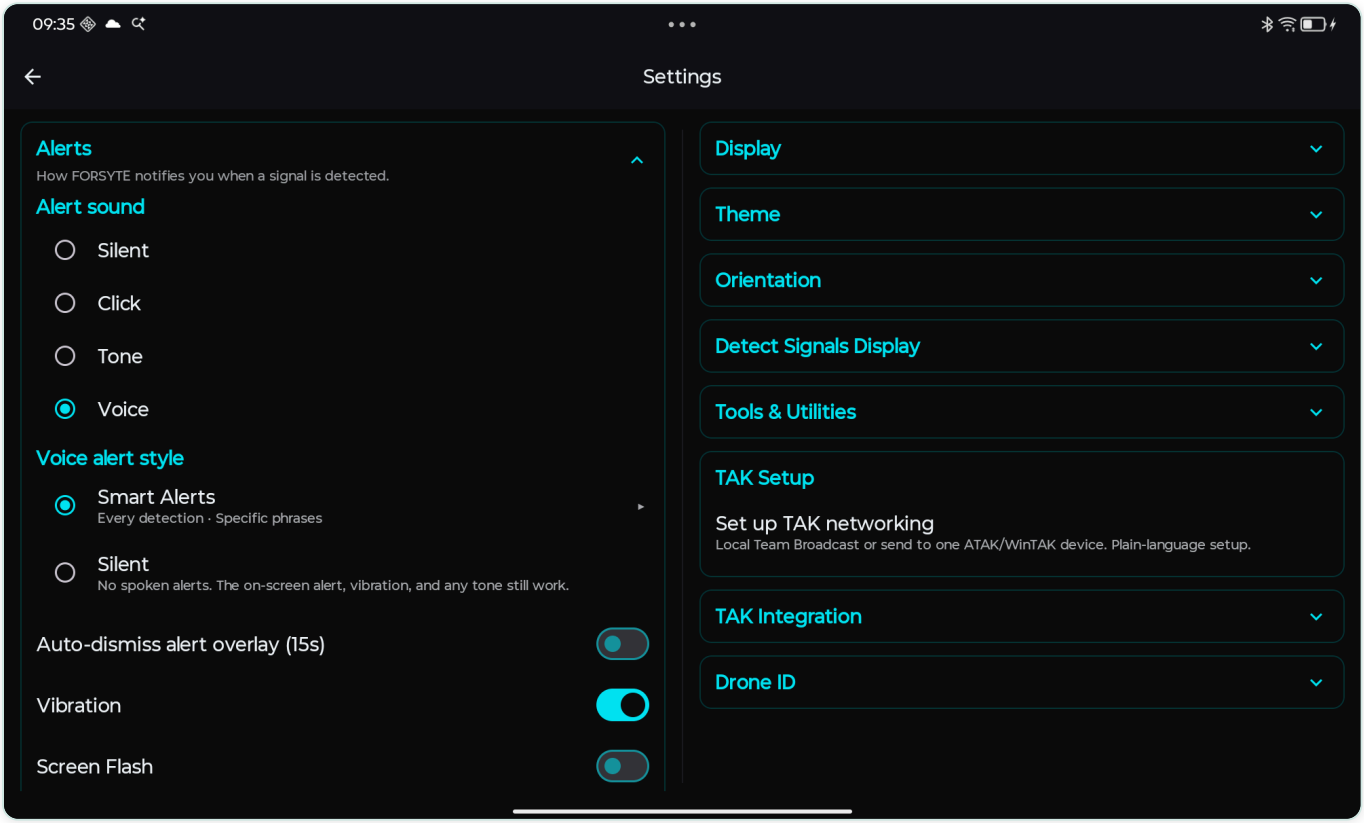


The Tools menu.

13 Settings tour

Settings (under **Tools**) is organised into groups so it's easy to scan:

- **Alerts**: how FORSYTE notifies you: alert sound (Silent / Click / Tone / Voice), voice alert style, vibration, screen flash, and auto-dismiss (15s).
- **Display**: screen layout and readability, including font size.
- **Theme**: light, dark, or follow the system.
- **Orientation**: how the app rotates on your device.
- **Detect Signals Display**: which view the Detect screen opens on.
- **Tools & Utilities**: optional controls, including **Training / Demo Mode** (simulated detections, no hardware needed) and **Low-FPS Mode** for older devices.
- **TAK Setup** and **TAK Integration**: share your detections to a team map (see section 14).
- **Drone ID**: Remote ID privacy, including **Stealth Mode** (pauses drone scanning), whether to scan for Drone ID alongside RF, and how long to keep Remote ID events.

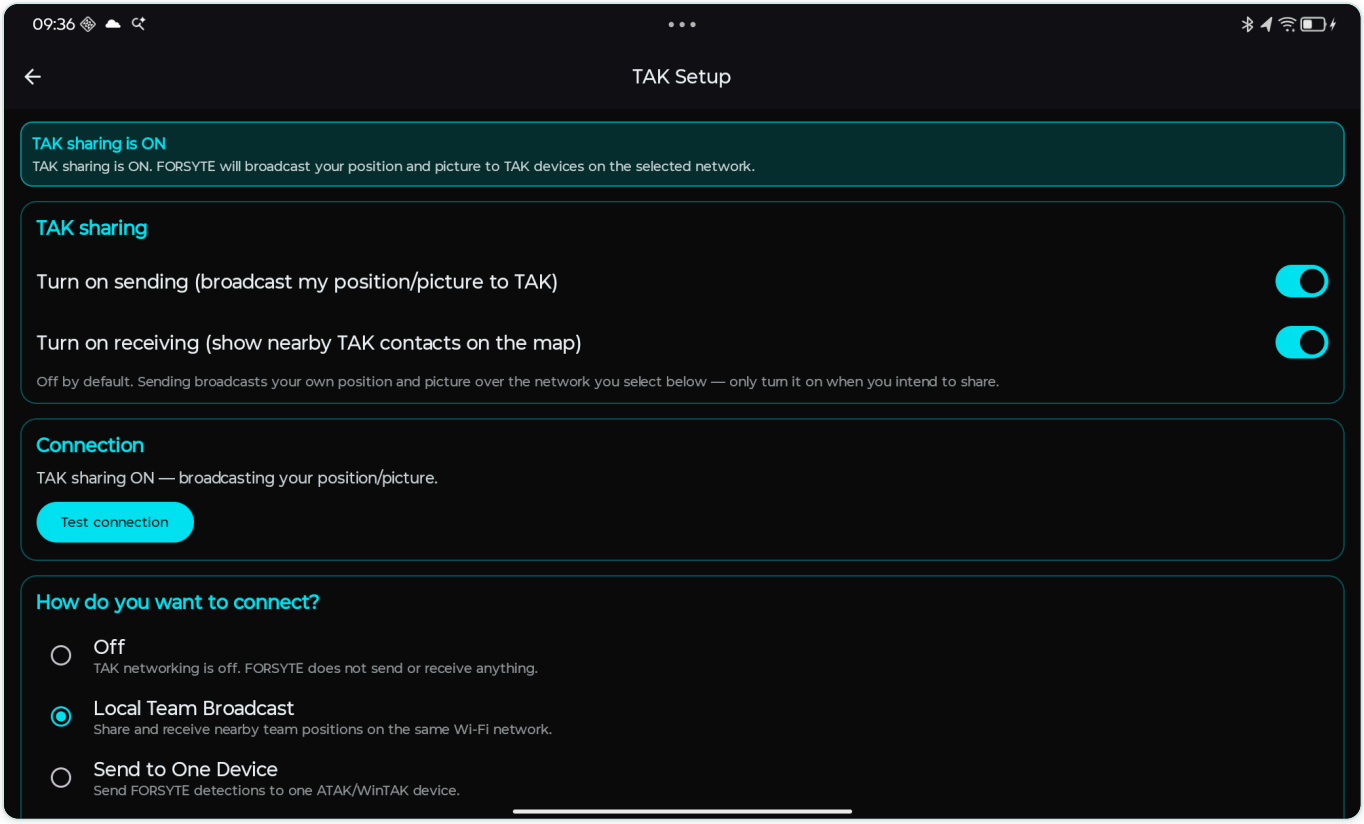


Settings: vibration, screen flash and auto-dismiss (15s).

14 Sharing with your team (TAK)

If you work alongside others, FORSYTE can **share its detections to a shared team map** using **TAK** (Team Awareness Kit). Your contacts then appear on everyone's map, not just yours.

This is **off by default** for privacy. To use it, open **TAK Setup**, enter your team's **address and port**, and switch sharing **on**. Turn it off any time to stop broadcasting.



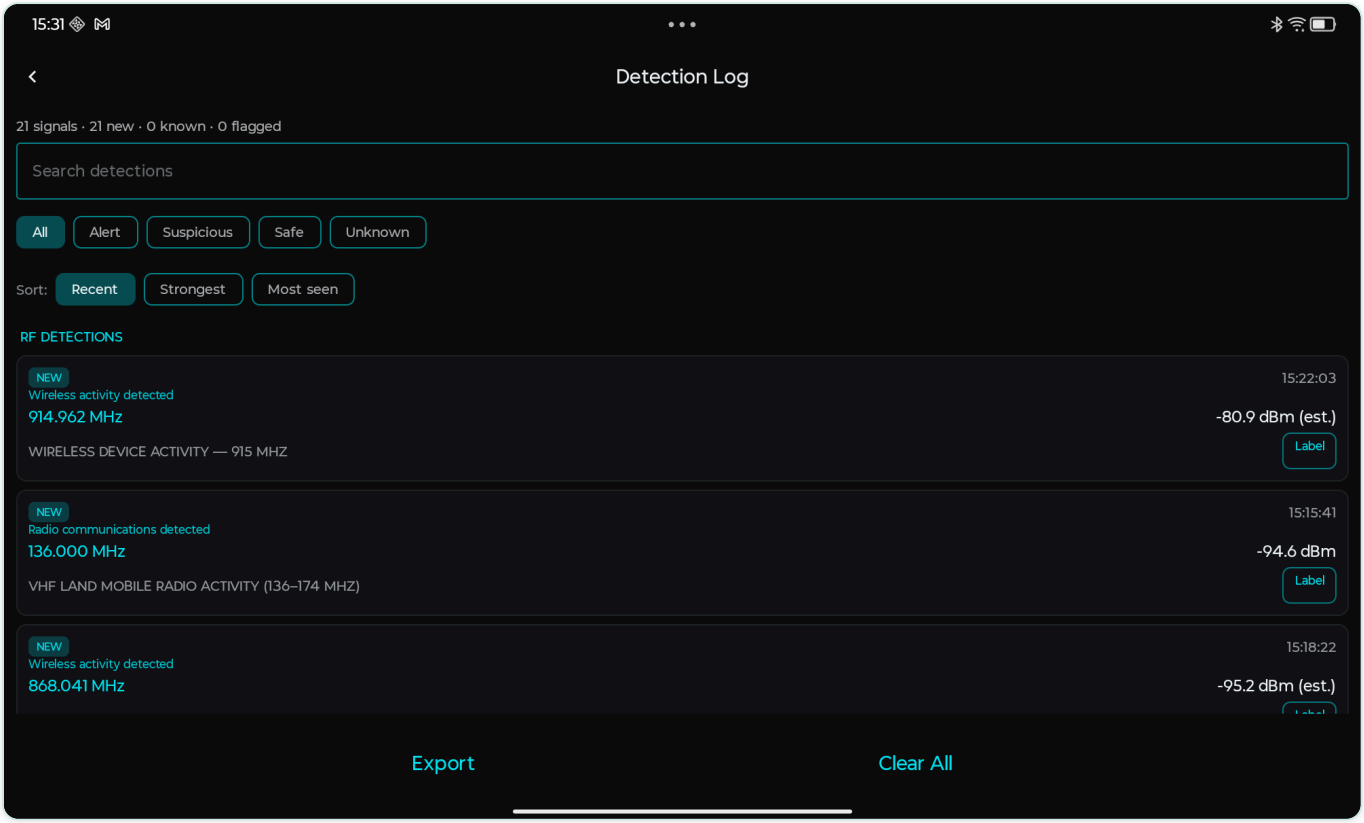
TAK Setup: turn team sharing on or off and choose how to connect.

15 Reviewing history

Everything FORSYTE spots is saved. Open the **Detection Log** to scroll back through what's happened and when, useful for writing up later or checking something you missed. (You can also see recent activity in the **Detections** view on the Detect screen.)

To save a copy, tap **Export** at the bottom of the Detection Log.

> If **Export** is greyed out, **Demo / Training Mode** is on. Turn it off under **Settings** → **Tools & Utilities** and try again.



The Detection Log: search, filter and export everything FORSYTE has spotted.

16 Good habits

A few things that make FORSYTE work its best:

- **In a busy area** (lots of Wi-Fi and Bluetooth), run **Calibrate** or set the environment to **High RF Noise** so FORSYTE tunes out the background and only flags what matters.
- **Missing things?** Lower the sensitivity threshold or reduce how many targets you're watching at once.
- **Too many alerts?** Calibrate, mute known-safe signals, or watch fewer targets.
- **Keep it running:** while watching, FORSYTE shows a small **"FORSYTE Scanning"** notification so it can keep listening with the screen off. Closing that notification stops the scan.
- **Know your sensor's limits:** an RTL-SDR watches up to **3 narrow signals** at once; a **HackRF** sees the wide band and, on Plus, up to **100 targets**, and is needed for Signal View and Jammer Watch. (Full details in the **Hardware Compatibility Guide**.)

17 Where to go next

- **Stuck on something?** See the **Troubleshooting Guide**.
- **Choosing or connecting hardware?** See the **Hardware Compatibility Guide**.
- **In the app:** open **Tools** → **Help**, or visit forsyte.app.

Need a hand?

Open **Tools** → **Help** in the app, or visit forsyte.app.