dronetag

Dronetag Scout Operating Modes

Dronetag Scout is a Remote ID receiver designed to detect nearby Remote ID-equipped drones. Built for flexibility, it serves a wide range of operational environments, from simple plug-and-play online setups to fully offline, locally hosted systems. To meet these varying needs, Scout supports four distinct operating modes, each tailored to different levels of connectivity, integration, and support.

Mode	Deployment Type	User Interface	Support	Best Fit For
Sensor	Raw data stream for further integration	Your own application	Self-Supported	OEMs, integrators, C-UAS platforms
Sensor+	Enriched raw data stream with basic visualization	Desktop version of Drone Scanner*	Standard Support	Enterprise and defence users, integrators needing support
Cloud	Online end-to-end system	Multiplatform Dronetag App	Standard Support	Cities, events, critical sites, public safety, law enforcement
On-Premise	Offline end-to-end system	Self-hosted Multiplatform App	Premium Support	Military, high-security institutions, regulated infrastructure

* will be available in Q4 2025

Sensor Mode – The Pure Signal Receiver

Overview

Sensor Mode provides the simplest way to deploy Scout. It captures Remote ID signals from nearby drones and forwards them as raw JSON data to your own infrastructure. There's no Dronetag Cloud connection or middleware involved, the data is sent directly to your infrastructure over MQTT or HTTP, either via PoE (Power over Ethernet) or LTE.

Benefits:

- **Full Data Ownership & Control** – Scout sends only raw drone detection messages. You decide where the data goes, how it's stored, processed, and visualized.
- **No Subscription or Middleware Required** – Operates without any Dronetag platform connection and without recurring fees. Pay once for the hardware and integrate it freely into any architecture.
- **Easy Integration** – Simple data output format and documented MQTT/ webhook interfaces make Scout easy to connect with existing systems.

Typical use cases:

Integration into command-and-control systems, C-UAS platforms, security monitoring solutions, sensor fusion engines

Target customers:

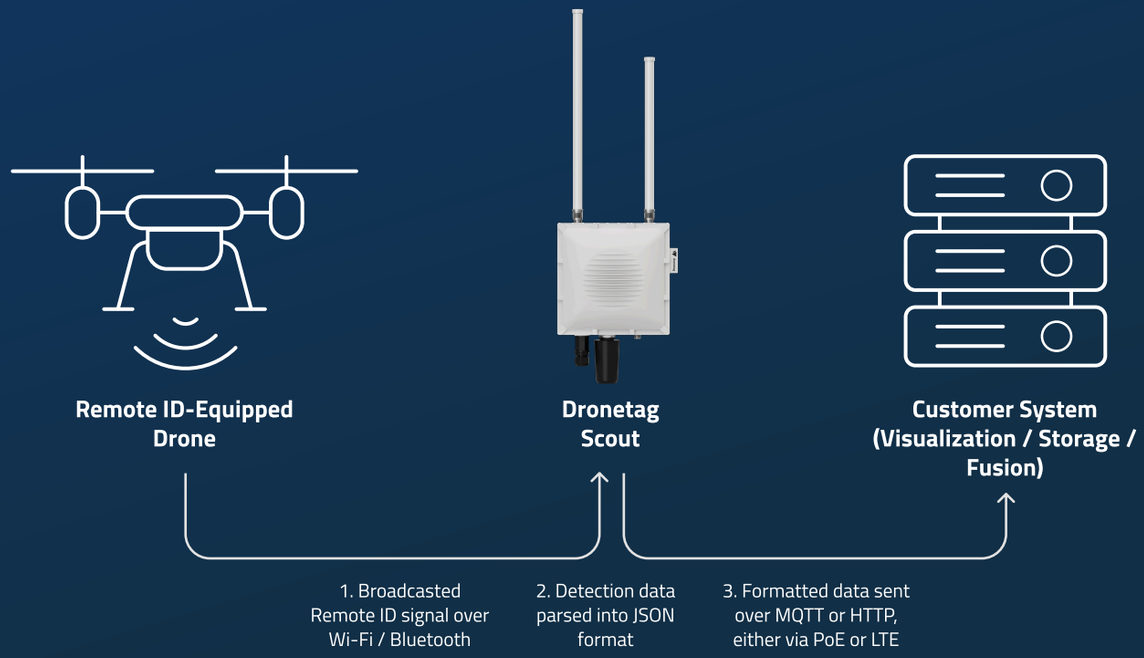
OEM system integrators, private security companies, advanced individual users

Pricing:

Hardware purchase only

API Documentation:

Link for the MQTT documentation at help.dronetag.com



Sensor+ Mode – Smart Model Detection with Support

Overview

Sensor Mode+ builds on the basic Sensor Mode by enriching the data with real-time drone model recognition and offering official Dronetag support. It includes a lightweight Drone Scanner desktop app to visualize detections and comes with automatic firmware updates. This mode also supports out of the box convenient integrations such as TAK.

Benefits:

- **Drone Model Recognition** – Scout identifies the manufacturer and model using a real-time onboard database.
- **Auto Firmware Updates** – When connected to the internet, Scout keeps firmware and drone database always up to date.
- **Desktop App User Interface** – Visualize detections immediately on a local map with the Drone Scanner app*.
- **Dronetag Integration Support** – Remote help and troubleshooting reducing deployment and setup time.
- **Ready-to-Use Integrations** – Supports TAK, SAPIENT*, ASTERIX*, and more, no custom development required.

Typical use cases:

Integration into security systems, monitoring at infrastructure sites, sensor fusion systems requiring model-level detail.

* In development, contact us for further details

Target customers:

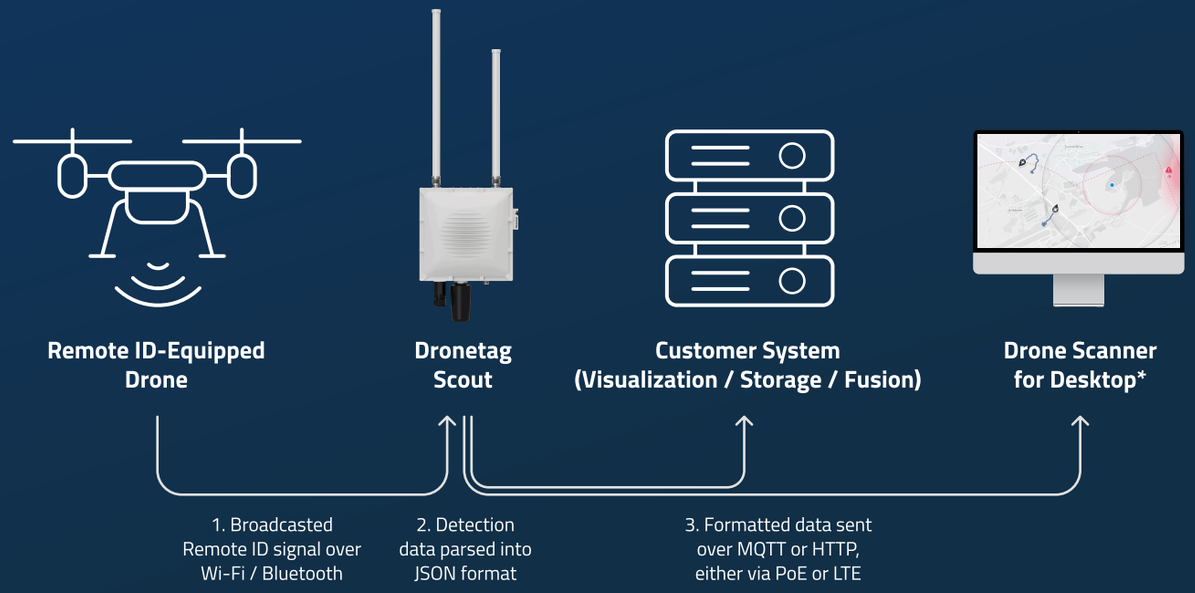
Defence suppliers, government operators, enterprises with technical teams wanting support and faster integration.

Pricing:

300 USD/EUR per unit per year (software & support license)

API Documentation:

Link for the MQTT documentation at help.dronetag.com



Cloud Mode – Fastest End-to-End Setup

Overview

Cloud Mode transforms Scout into a turnkey system. Detections are streamed to Dronetag Cloud and visualized instantly via the Dronetag web or mobile app. No backend development or local setup is needed. This mode includes extended features like advanced visualization, data deduplication from multiple sensors, exports, alerts, whitelisting, history, off-the-shelf integrations, and software APIs.

Benefits:

- **Instant Live View** – Access detections via Dronetag apps with no setup required.
- **Smart Backend Features** – Includes sensor data deduplication, alerts and detection history.
- **Data Export & API** – For law enforcement or integration with your existing systems.
- **Highly Scalable** – Interconnect multiple Scouts for comprehensive monitoring of entire cities and critical infrastructure.
- **All Sensor Mode+ Features, and More** – all core features from Sensor Mode+ are included, with additional integrations like Aloft and SafeSky.

Typical use cases:

City authorities, infrastructure operators, private security providers, or event organizers who need real-time airspace visibility without the burden of maintaining their own backend.

Target customers:

Public safety departments, event organizers, critical infrastructure managers

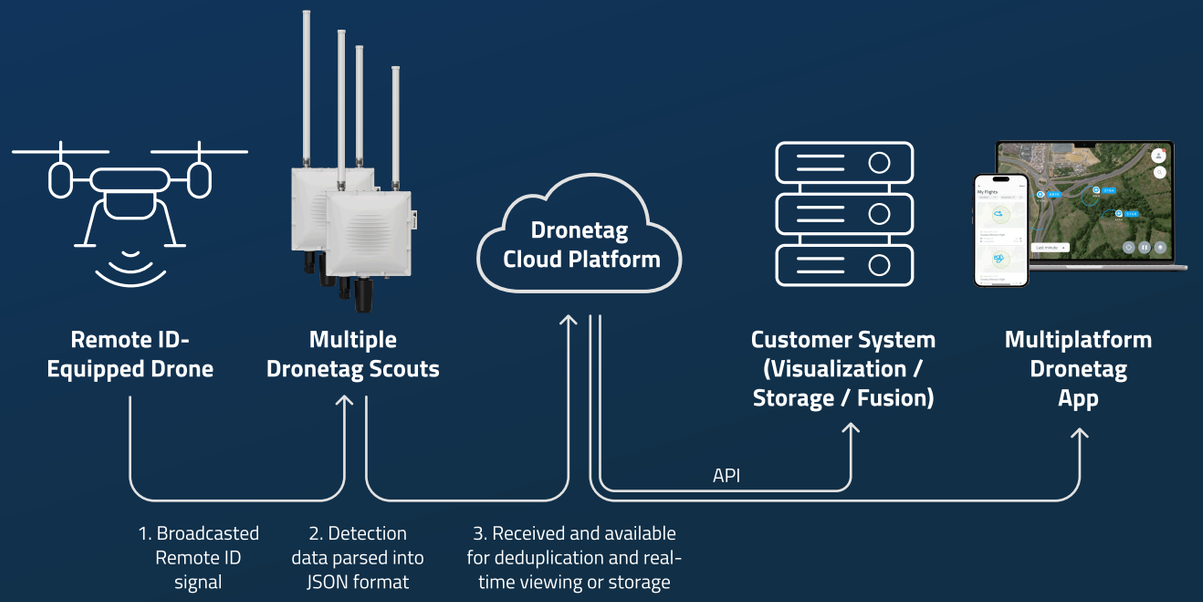
Pricing:

1,000 USD/EUR per year for the first Scout

360 USD/EUR per year for each additional Scout

API Documentation:

Link for the MQTT documentation at help.dronetag.com



On-Premise Mode – Full System, Total Control

Overview

On-Premise Mode delivers the full Cloud Mode feature set, hosted entirely within your infrastructure. No data leaves your network, and all processing and visualization happens locally. Built for highly secure, regulated, or air-gapped environments.

Benefits:

- **All Cloud Features, Fully Self-Hosted** – Gain all the benefits of Cloud Mode while maintaining complete control by hosting everything internally.
- **Data Sovereignty** – Complete privacy with no reliance on external servers or internet.
- **Secure, Compliant Deployment** – Ideal for environments with strict internal policies.
- **Enterprise Support Included** – Dronetag provides implementation and ongoing expert assistance.

Typical use cases:

Best suited for enterprise and government users who require full control over their airspace data and have the technical capacity to manage internal infrastructure.

Target customers:

Regulated entities such as airports, military installations, critical infrastructure operators, and national authorities.

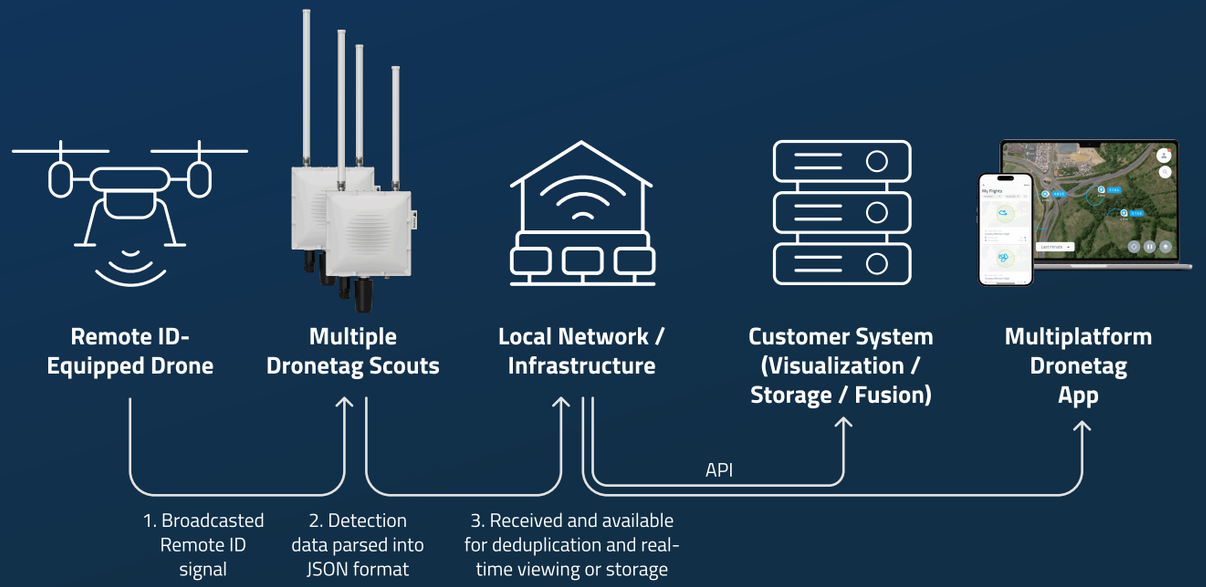
Pricing:

Contact us for further information.

Note: Implementation is technically demanding and resource-intensive, making it ideal for organizations prepared to invest in long-term operational independence and full data ownership.

API Documentation:

Link for the MQTT documentation at help.dronetag.com



Feature	Sensor Mode	Sensor+ Mode	Cloud Mode	On-Premise Mode
Type of Solution	Raw data only	Raw data only	Full end-to-end system	Full end-to-end system
Dronetag Middleware	✕	✕	✓	✓
Data Export	✕	✕	✓	✓
Data History	✕	✕	✓	✓
Alerts	✕	✕	✓	✓
Sensor Data Deduplication	✕	✕	✓	✓
Visualization Platform	✕	Desktop only*	Web, iOS, Android	Web, iOS, Android
Direct Integrations	✕	TAK, SAPIENT, ASTERIX*	TAK, SAPIENT, ASTERIX	TAK, SAPIENT, ASTERIX
Middleware Integrations	✕	✕	Aloft, SafeSky	Aloft, SafeSky
3rd Party Integration Options	JSON via MQTT / Webhook	JSON via MQTT / Webhook	SW API	SW API
Drone Model Recognition	Drone manufacturer only	Up-to-date model library*	Up-to-date model library	Up-to-date model library
Dronetag Support & Updates	Self-Supported	Standard Support	Standard Support	Premium Support
Deployment Effort	Moderate	Simple	Plug and play	Complex
Annual Subscription per Sensor	Hardware Purchase Only	300 EUR/USD	1,000 EUR/USD for first, 360 USD/EUR for additional	Depending on the requirements

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