

ScaleFlyt Geocaging

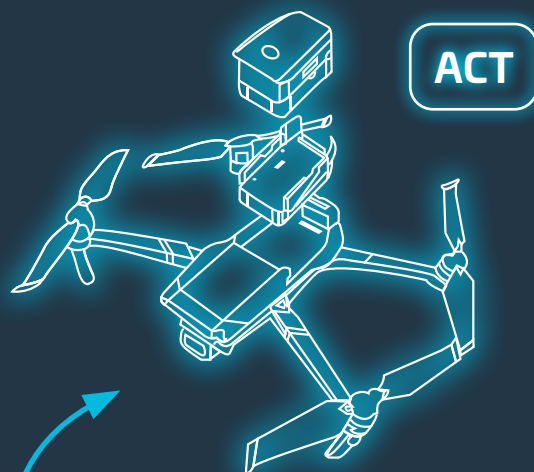
Highly reliable flight containment solution for drone operations



ScaleFlyt Geocaging Add-on, application and RF dongle

- Keep your drone in an enclosed area defined by geographical and altitude limits
- Best risk mitigation
- Increase your operational flight volume
- Independent channel and automatic system
- Increase your access to flight authorization even close to restricted areas

Secure UAS operations



SUPERVISE



Geocaging Add-on

Features: independent alerts transmitted to mobile device, automatic FTS triggering

CONTROL

Remote control



C2 Link

Optional

PLAN & ANALYZE

Features: Flight mission preparation, cage creation www.scaleflyt.com



Add-on for conformance and performance

Thales has developed the Geocaging add-on to decrease ground risk class and air risk class (according to Specific Operation Risk Assessment (SORA)), which complies with the highest levels of aeronautics standards. It will relieve operators from a legal risk in case of incident and greatly ease authorization obtained from National Aviation Authorities (NAA), while ensuring secured UAS operations and conformance to operational limitations.

Easy to use

Install the geocaging add-on in your drone by connecting it to the power supply and the FTS (Flight Termination System). Easily create the cage for your operation through dedicated software (Google Earth Pro or ScaleFlyt). Load this cage to the add-on with our mobile application and with the supplied RF transmitter connected to your mobile device (smartphone or tablet). Then fly your drone, with the assurance that it will never fly outside the loaded cage. If the drone flies near the cage limit, the add-on sends awareness alerts to the mobile application.

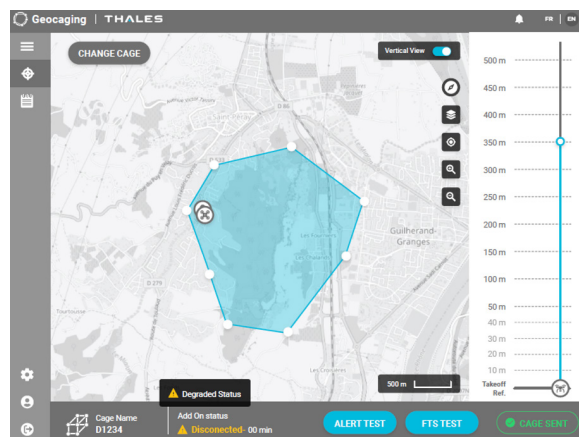


Geocaging Mobile Device

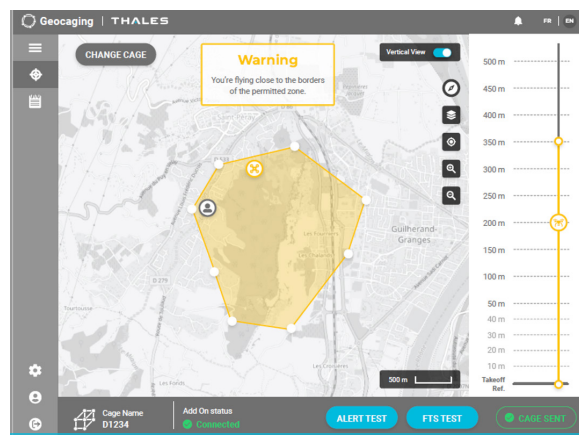
(Mobile App + RF dongle)

Features: Cage creation & editing, loading in board & display of flight and alert, post flights logs

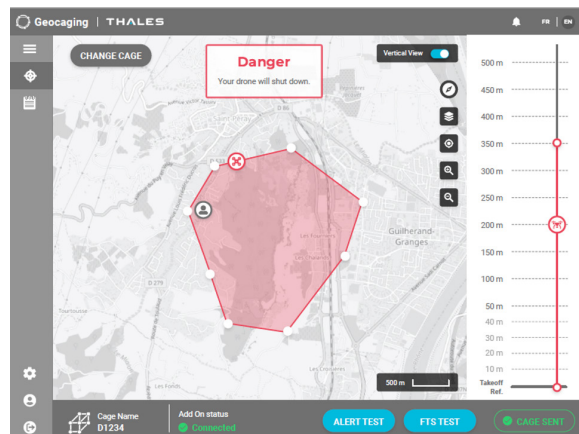
Three levels of awareness



Your drone is within the enclosed area.



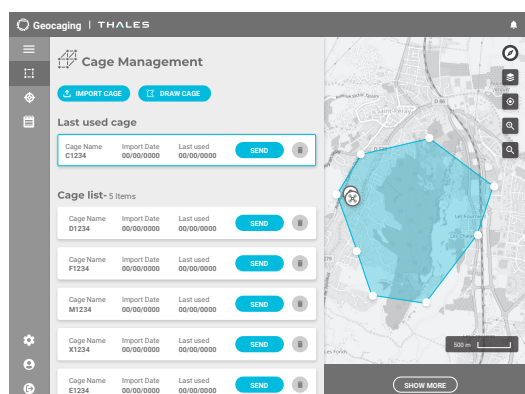
Your drone is getting closer to the borders defined. You immediately receive the alert for contingency of the area.



When reaching the line border, the add-on orders the drone to turn off its engine.

Depending on the integration level with your piloting system, automatic containment can avoid cage breaching. As a last resort, the add-on triggers the flight termination system of your drone. Retrieve flight data (trajectory, awareness alerts) on the mobile application, and load them back to the dedicated website. Compliant with any FTS and parachute.

ScaleFlyt Geocaging Flight containment system



With ScaleFlyt Geocaging, you can import your cage, reuse it, or create a new one.

KEY FEATURES		
Onboarded add-on	Safety	<ul style="list-style-type: none"> Independent from flight controller Controlled positioning quality Aviation Grade design assurance level
	Size, weight & power	<ul style="list-style-type: none"> Two parts embedded in the drone: <ul style="list-style-type: none"> - Main board: 13.6 x 35 x 70 mm - GPS Receiver: 38 x 38 x 11 mm Cable: 200 mm Weight: 37g Consumption: < 1W Power supply: 9-36V
	Output	<ul style="list-style-type: none"> FTS triggering signal (0 - 3.3v) Optional: connection to flight controller to allow automatic containment with shortest delay
Mobile device	<ul style="list-style-type: none"> USB dongle Mobile application Allows cage design & loading on add-on and real-time flight data (trajectory, awareness alerts) display during the flight Requirement: Android device with USB OTG port ScaleFlyt digital web platform to complete your mission and flight planning 	

Thales: strong, longstanding UAS experience

Thales is a leader in certified avionics equipment for all kinds of aircraft and has already been working for several years with leading drone manufacturers covering most civil and military usages. Today, two-thirds of all aircraft flying in the world are equipped with Thales technology. Beyond ongoing experimental flight trials, the UAV industry requires high-performance, consistent, safe and secure solutions on the ground, on board and in the air. By leveraging Thales's longstanding experience and leadership in Air Traffic Management, digital identity and security products, advanced certified avionics solution, communications systems and mission management solutions, we serve our customers with a range of affordable, compact, smart, safe and secure products and services.

With our new ScaleFlyt product range we will enable faster UAS certification, and safer and more secure operations for uses that extend from critical asset surveillance and long-range operations to UTM and airspace optimization. From secure Line Of Sight (LOS) communications to satellite communications services, from safe and certified onboard avionics to mission management command and control solutions, from intelligence, surveillance and reconnaissance systems to collaborative networks, Thales is the partner for efficient, safe and secure drone operations.

To make large-scale drone operations become a reality, everywhere.

For safe and secure large-scale drone operations