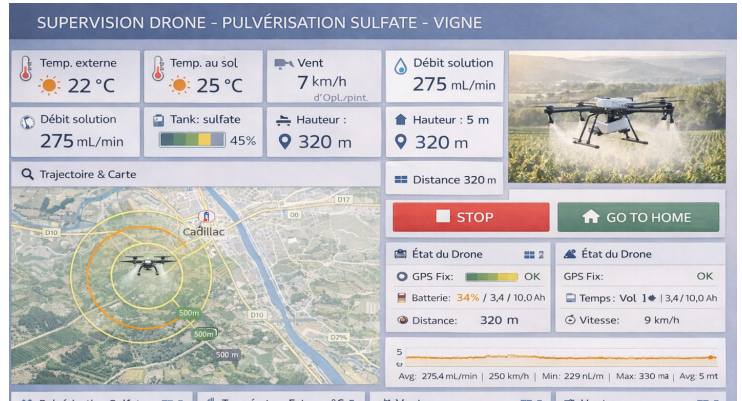


UAV MISSION SUPERVISION & TELEMETRY PLATFORM



XAP EXPERTISE IN UAV SYSTEMS & MISSION-CRITICAL COMMUNICATIONS

With 30 years of experience in embedded electronics, telemetry systems and critical mobility applications, XAP develops complete UAV architectures combining flight control, communications, telemetry and mission supervision.

Designed for industrial, logistics, security and defense operations, the XAP UAV Mission Supervision Platform transforms drones into fully connected assets capable of delivering real-time operational intelligence.

From onboard sensors to cloud-based supervision, XAP controls every layer of the telemetry chain, ensuring reliability, interoperability and data sovereignty throughout the mission lifecycle.

The XAP UAV Telemetry Platform continuously collects, aggregates and distributes information originating from:

- Flight controllers
- Navigation systems
- Energy management systems
- Payloads and sensors
- Safety devices
- Mission equipment

CONNECTED INTELLIGENCE FOR PROFESSIONAL DRONE OPERATIONS

REAL-TIME MISSION VISIBILITY:

Monitor aircraft status, navigation data, payload operation and mission parameters in real time from a unified supervision platform.

INDEPENDENT SAFETY LAYER:

The supervision architecture operates independently from the flight-control system, providing an additional layer of operational safety and resilience.

BEYOND VISUAL LINE OF SIGHT OPERATIONS:

Maintain continuous visibility of aircraft and mission status through radio, IP and 4G communication networks.

MISSION TRACEABILITY & COMPLIANCE:

Record and archive mission data, events and flight parameters to support operational reporting, post-mission analysis and regulatory requirements.

GEOCAGING & OPERATIONAL CONTROL:

Integrate geofencing and operational zone management functions to improve mission safety and compliance.

SECURE & SOVEREIGN INFRASTRUCTURE:

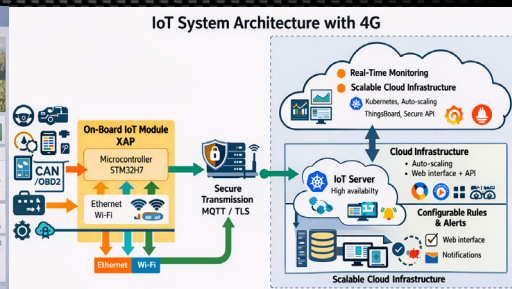
Deploy the platform on XAP Cloud, private cloud or on-premise infrastructures according to security and sovereignty requirements.

OPEN & INTEROPERABLE ECOSYSTEM:

Compatible with PX4, ArduPilot and industry-standard communication protocols, allowing easy integration into existing UAV architectures.

FLEET SUPERVISION & REMOTE SUPPORT:

Monitor multiple UAVs simultaneously while enabling remote diagnostics and technical support capabilities.



► TELEMETRY, VIDEOS: **UAV MISSION SUPERVISION & TELEMETRY PLATFORM**

PLATFORM SPECIFICATIONS

Architecture	Distributed telemetry ecosystem
Deployment	Cloud, Private Cloud or On-Premise
Data Processing	Real-time & historical
Supervision Interface	Web-based
Fleet Management	Multi-UAV capable
Infrastructure	Scalable distributed architecture

SAFETY & SECURITY

Communication Security	Real-time dashboards Key energy parameter tracking Multi-site visualization
Authentication	Historical data and trends Battery behaviour analysis System efficiency monitoring
Data Sovereignty	Configurable thresholds Real-time alerts and notifications Automated response scenarios
Geocaging Integration	Remote diagnostics System supervision from any location Support for distributed infrastructures
Mission Traceability	Full mission recording
Independent Safety Functions	Supported
Local Data Logging	Embedded mission storage

DATA MANAGEMENT

Data sources	Flight controller, sensors, payloads
Storage	Local and cloud-based
Visualization	Custom dashboards
Analytics	Real-time & post-mission
Multi-User Access	Supported
Data Export	Supported

TYPICAL USE CASES

Defense & Security	Surveillance, reconnaissance, tactical operations
Critical Infrastructure	Power lines, pipelines, industrial assets
Logistics	Cargo UAV monitoring and fleet management
Emergency Response	Search & rescue, disaster assessment
Agriculture	BVLOS operations, mapping, precision farming
Industrial operations	Inspection, monitoring and data collection

MISSION SUPERVISION FUNCTIONS

Live Telemetry	Supported
Mission Tracking	Supported
Fleet Monitoring	Supported
Event Logging	Supported
Historical Analysis	Supported
Remote Diagnostics	Supported
Operational Dashboards	Supported

COMMUNICATION INTERFACES

Telemetry Protocol	MAVLink
Internal Networks	CAN, DroneCAN, UART, Ethernet
Wireless Communications	2.4 GHz OFDM, Wi-Fi, 4G
Cloud Connectivity	IP-based infrastructure
Video Integration	HDMI / Ethernet compatible
Communication Mode	Bidirectional



MORE INFORMATION ON
[HTTPS://STORE.XAP.FR](https://store.xap.fr)

XAP TECHNOLOGY
298, rue des Entrepreneurs -
30420 Calvisson - FRANCE
Tél : +33 (0)4 66 02 94 94
Email: contact@xap.fr