

PRODUCT BRIEF

One operational picture.

Maps, aircraft, missions and sensors. Connected in VECTOR.

Workspaces

Geospatial: 2D, 3D and split views; prepared local map packages; airspace, operational areas and annotations.

Fleet: ownship and observed-track awareness, aircraft telemetry and following views.

Missions: route and pattern planning, terrain and operating constraints, saved plans and execution monitoring.

Sensors: field-of-view context, live imagery and available recordings.

Architecture

VECTOR separates the operator workspace, common operational data model and external integration boundaries. Capabilities and command authority are selected to suit each deployment.

Cross-platform operational exchange

Shared airspace: airspace volumes, operational areas, geo-fences and associated rules.

Mission coordination: routes, mission geometry, task context and supported lifecycle updates.

Tracks and alerts: ownship state, cooperative and surveillance tracks, service status, notifications and operational alerts.

Sensor context: sensor status, field of view, detections and supported tasking.

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Interfaces & integration

Select the adapters and data paths required by your deployment.

Aircraft and communications

Air vehicle integration: MAVLink 1 and 2 over UDP or TCP for bidirectional telemetry, vehicle state, mission transfer and supported command-and-control actions.

Mission data backbone: DDS connects platforms, sensors, missions, alerts and distributed VECTOR services through a common operational model.

Full-motion video and metadata: RTSP and WebRTC video paths; STANAG 4609 with MISB ST 0601 KLV metadata from raw KLV, MPEG transport streams, UDP or RTSP sources.

Tactical and enterprise integration: schema-driven MQTT and REST exchange; TAK / Cursor on Target over TCP or mutual TLS.

Deployment adapters: MicroPilot, Piccolo, FlytBase / FlytNow, NMEA GPS, AIS, ASTERIX CAT21 / CAT48 / CAT62, and selected radar or RF detection and tracking feeds.

Deployment notes

The selected deployment defines data ownership, access permissions, command authority and synchronization policy between connected platforms.

Protocol availability does not imply universal hardware compatibility. Aircraft commands, provider access and external equipment are configured and validated for each deployment.

Prepared local maps support offline use. Connected information and live video depend on available sources and connectivity. Integration with real equipment requires appropriate validation.

Product availability and integration scope depend on the selected deployment.