



Sector Solution Overview: Borders

DIFFICULT TIMES AT THE BORDERLINES

The use of drones to smuggle drugs and contraband across borders has become increasingly prominent around the globe. The drone threat has gotten so large and dangerous that there is [ramped-up pressure on governments](#) to enable proper authorities to combat it.

Threatening drone scenarios at the border include:

- Drug and weapon smuggling
- Explosive attacks between rival cartels or against law enforcement/border personnel
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- Fence vulnerability probes
- Reconnaissance and tracking of border security staff and facilities
- Human trafficking and illegal border crossings

Overcoming these challenges is difficult for border security agencies, in part because borders are usually long and can be delineated by mountains, shorelines, or densely populated urban areas.

While confronting these challenges, border security personnel must consider jurisdiction and privacy concerns, as well as evolving regulations – which often differ between countries and regions.

TRADITIONAL SOLUTIONS' LIMITATIONS

Traditional technologies have shortcomings at the border:

Detection: Differentiating between small drones & other objects may result in false positives with radars

Mitigation: Kinetic (physical) solutions can cause collateral damage in urban border areas or border facilities; in addition, jammers' results may be temporary and may disrupt border communications

It is also important to note that existing communication signals operating on certain frequency bands (Wi-Fi and point-to-point communications) could be disrupted or interrupted by certain counter-drone solutions, such as jammer-based systems.

BOLSTERING THE BORDER

EnforceAir is a radio frequency-based, cyber-takeover counter-drone solution that features proven and future-proof technology that detects unauthorized or rogue drones, identifies them and then automatically takes control over the drones and lands them in a safe, designated area. Authorized law enforcement and security assigned drones remain fully operational and unaffected.

Unlike traditional anti-drone solutions on the market, our flagship product, EnforceAir, uses non-kinetic and non-jamming technologies, preventing collateral damage. EnforceAir empowers border security agencies to retrieve drone payloads being carried by rogue drones. The system also identifies and tracks the location of the drones' take-off positions and remote-control operators.

EnforceAir is an ideal solution to protect borders from illegal drone incursions, regardless of terrain. The solution requires no line-of-sight for detection and can be deployed in both static and mobile, on-the-move configurations.

EnforceAir's Multi-Sensor Command and Control (MSC2) system fuses sensor data from multiple EnforceAir systems into one user interface, combining artificial intelligence and machine learning to select the optimal sensor/system to mitigate a threatening drone, while other sensors continue monitoring the airspace

TESTED, DEPLOYED & TRUSTED AT THE BORDER

Hundreds of deployments of EnforceAir worldwide across five continents, including highly traveled borders and ports, forward operating bases and major international airports.

OPERATIONAL FLEXIBILITY

Border agencies benefit from our multiple deployment options, which provide optimized coverage for a wide variety of scenarios, conditions and terrain types. The hardware is lightweight and compact, and can be rapidly disassembled, moved and reassembled in minutes. The following options are ideal for border deployments:

Deployment Type	Description/Benefits
Ground-Level Tactical Kit	D-Fend Solutions' kit provides complete support for ground forces, with 360-degree azimuth coverage.
Military Vehicle Kit	Ideal for providing a moving bubble of coverage while traveling along border roads and paths, the kit includes a shock-absorbing cradle for EnforceAir's software-defined radio (SDR) unit and the ground-level military antenna radome.
Vehicle Kit	A discreet way to deploy EnforceAir. This option is designed for mission-critical mobile scenarios, such as VIP protection. The system is easily mounted and transferred between different vehicles within minutes, without drawing undue attention or damaging the vehicles.
Long-Range Directional Kit	Designed primarily for stationary, long-range coverage deployments, such as protecting borders' airspaces. This kit provides a unique, dual-sensor solution with extended detection and mitigation range.



For more information, [contact us](#).

