



# Sector Solution Overview:

## Prisons



### Drones Penetrate the Prison Perimeter

The increasing number of commercial drones delivering contraband to prisons is alarming prison officials, politicians, and law enforcement agencies around the world. Inmates engage in a high-demand, illegal trade that supplies them with drugs, alcohol, tobacco, weapons, and cellphones. Such illegal trade can lead to further issues, including increased criminal activity, both inside and outside prison walls.

Unlike traditional smuggling methods, drones can fly undetected into prison yards over prison walls and are more difficult to detect. It therefore becomes easier for inmates to gain access to illicit goods and increases the likelihood of them committing crimes from inside. This puts both prisoners and correctional officers at risk. Moreover, drones can transport far more than can be smuggled by hand, increasing the amount of contraband and profits for criminal groups.

Drones can also be used to surveil institutions or facilitate escape attempts. Furthermore, they can also be armed or self-destructing, capable of causing serious damage to people and facilities.

Effective detection and mitigation of unauthorized UAVs are essential for optimal security.

### Jails and Jammers May Not Mix

For prison airspace security, traditional solutions are limited:

#### Detection

- Radars: may have limited ability to differentiate between small drones and other flying objects, such as birds, during detection, potentially generating false positives
- Optical: clear and direct line-of-sight required, which is not always available in dense, crowded, or urban environments
- Acoustic: limited in ability to address increasingly quiet drones, especially in noisy environments

#### Mitigation

- Jamming: may affect other radio communications, possibly hampering essential security or operational communications, and with unpredictable consequences for the rogue drone
- Kinetic: risky in crowded environments as the projectile, falling drone, or debris could injure guards and prisoners

Some prisons utilize drones to monitor the prison grounds and work performed by inmates. Conventional solutions, however, may be unable to distinguish between authorized and unauthorized drones, affecting overall safety processes.



## Proactively Protecting the Prison Environment

EnforceAir, D-Fend Solutions' core solution, 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 drones remain fully operational and unaffected.

An alert zone can be set on the outer perimeter of the prison, with multiple protection zones blanketing the surrounding areas.

D-Fend's proven and trusted solution can also provide prison authorities with crucial data – such as the drone take-off position and pilot remote control location. This can help police apprehend the perpetrators and prevent future intrusions.

Our solution can integrate with other command and control solutions and law enforcement systems, so that relevant guards and personnel are equipped with real-time information regarding at-risk areas/outposts so that emergency units can prepare accordingly.

## Agile & Intuitive

EnforceAir provides the ultimate in operational agility and flexibility, as its core elements can be easily transferred, mounted, and configured within minutes, enabling prison personnel to go anywhere at any time. This includes tactical, covert and military vehicle, stationary, long-range directional and man-portable (backpack) deployments, also available in multiuse deployment bundles, offering high-performance, counter-UAS capabilities with seamless operational flexibility.

EnforceAir2 brings enhanced, expanded, and extended C-UAS capabilities, with even more power, performance, portability, and range, all in a compact footprint. Its intuitive graphical user interface and rugged tablet are easy to use for all types of operational users, and do not require technical background.



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