LOCH
TECHNOLOGIES

Use Case:
C-UAS Technology for Enhanced Security in Prisons

OVERVIEW :

Modern prisons face evolving security threats, including the rise of drone (Unmanned Aircraft Systems, UAS) usage for illicit purposes. LOCH's C-UAS technology offers a robust solution to detect, identify, and mitigate drone-related risks in the wireless spectrum.

By deploying LOCH's advanced C-UAS solutions, prisons can secure their airspace, safeguard personnel, and maintain operational integrity against the growing threat of drone misuse.

Wireless Risks and Threats from Drones in Prisons

01 **Contraband Delivery :**

Drones are increasingly used to smuggle contraband such as drugs, weapons, cell phones, and other prohibited items into prison facilities. These deliveries bypass traditional security measures, undermining the prison's ability to maintain order.

02 **Espionage and Surveillance:**

Drones equipped with cameras can conduct unauthorized surveillance, mapping prison layouts, identifying vulnerabilities, and assisting in orchestrating escapes.

03 **Communication Facilitation:**

Wireless devices delivered by drones enable unauthorized communication between inmates and external parties, facilitating criminal activities both inside and outside the prison.

04 **Drone Swarming and Distraction:**

Coordinated drone swarms can overwhelm security personnel, serving as a distraction for larger escape attempts or coordinated attacks.

05 **Potential for Direct Harm:**

Drones can be weaponized or used to deliver explosive devices, creating direct threats to the safety of staff and inmates.

Impact of Drone Threats on Prisons

Operational Disruption:
Unauthorized drone activities can lead to lockdowns, staff overtime, and increased operational costs.

Increased Contraband-Related Violence:
Smuggled items, especially drugs and weapons, escalate violence among inmates and put staff at risk.

Security Breaches and Escapes:
Drones can facilitate high-profile escapes, endangering public safety and damaging institutional reputation

Legal and Reputational Risks:
Failure to address drone threats can expose the institution to lawsuits and negative media coverage, eroding public trust.

Potential Benefits for Prisons

Improved Safety and Security :
Eliminate the risk of contraband delivery and mitigate potential harm from weaponized drones.

Cost Savings:
Reduce the need for manual interventions, additional staffing, and reactive countermeasures.

Operational Efficiency :
Maintain uninterrupted operations by neutralizing threats before they cause disruption.

Future-Proof Solution:
Stay ahead of emerging drone threats with LOCH's scalable and AI-driven technology.

Conclusion

With the increasing sophistication of drone threats, prisons require a proactive and technologically advanced defense. LOCH's C-UAS solution offers a comprehensive approach to mitigating wireless risks, ensuring the safety of personnel, inmates, and the surrounding community. By adopting this solution, prisons can fortify their defenses against modern threats while maintaining the integrity of their operations.