Airspace Monitoring Service

The team that makes up Hidden Level have been working together for more than a decade with a history of success designing, producing, and deploying state of the art technology for both military and commercial markets. Specializing in radars, sensors, and communications systems, our team previously has developed state-of-the-art air surveillance radars, weapon location radars, ground surveillance radars, electronic warfare systems, passive RF sensors, and more.

Hidden Level's mission is to enable the safe integration of drones into the National Airspace System (NAS) by providing actionable airspace monitoring data through its advanced sensor technology network. With use cases such as drone delivery becoming closer to reality, urban centers present the greatest challenge for ensuring security and enabling safe commercial drone operations. Current technologies today do not scale for the large area coverage needed for major cities, which is problematic to ensure long term viability and safety of the NAS.

The Airspace Monitoring Service (AMS) is offered as a cloud-based solution with no expensive on-premise equipment or software to be owned or maintained. Hidden Level sensors are strategically installed on existing infrastructure, buildings, rooftops, cell towers, etc. to form a comprehensive low altitude airspace picture.

The drone detection and tracking data from AMS integrates directly into a facility’s Video Management Software (VMS), Security Operations Center (SOC), or Situational Awareness Platform as a simple add on service. AMS data is already compatible with popular security platform providers. AMS subscription fees depend on the use case for data fidelity and the coverage area desired in square miles, which customers can customize to only get what they need.

The flexibility provided by the Airspace Monitoring Service provides many benefits to the end user:

- Eliminates burden on a facility, venue, or entity to own, operate, or accommodate expensive and rapidly changing technology
- Provides greater warning time, leading to fast and efficient responses from security and law enforcement to handle unwanted drone incursions
- Large area coverage reaches a diverse customer group who can share in the service benefits including customizable coverage area
Hidden Level’s sensors are strategically placed on existing elevated infrastructure within an urban area, such as water towers, cell towers, and building rooftops. Sensor installations are optimized to provide high fidelity airspace monitoring around our customer’s primary areas of interest. Hidden Level sensor deployments offer an unprecedented combination of range and scalability, with 15 installations or less sufficient for nearly half of the top 40 US cities by population[2].

Each sensor works to interpret a 3D location, classification, and other identifiers that represent a drone of interest. The data from each sensor is processed by our Airspace Monitoring Service to produce a real time track of the drone along with other situational intelligence for security personnel, air traffic managers, or other end users to be able to formulate potential mitigation responses.

REFERENCES

Figure 1. Illustration of the Airspace Monitoring Service at work in a typical city

MARKETS

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<th>Smart Cities</th>
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