

CAS

CRITICAL ASSET SECURITY

About CAS

Axient has been serving and protecting critical assets for the Department of Defense (DoD) for 30+ years. With that expertise, Axient is now offering solutions for critical asset security (CAS) in the commercial space.

Critical asset security refers to the protection of systems, networks, and assets, whether physical or virtual, that are essential for the functioning of a society and economy. This includes sectors such as energy, transportation, communication, water, healthcare, corporate espionage, and borders.

Ensuring the security of critical infrastructure is crucial, as any disruption or compromise can have significant consequences, ranging from economic losses to potential threats to public safety and national security.

Critical asset security is a crucial aspect of an organization's overall strategy. It involves identifying, classifying, and protecting the assets that are most vital to the operations and continuity of the business.

Sensor fusion refers to the process of combining information from multiple sensors to obtain a more accurate and comprehensive understanding of a situation or environment. There are no limits to the types of sensors that can be deployed for current or evolving threats, but some of the most common are types are RF detection, radar, optics, and acoustics.

Our Approach

Axient's approach to ensuring that the sensor fusion and command and control platform can evolve with future threats includes five key elements:

- **Flexibility:** The platform should be designed to accommodate diverse types of sensors and easily integrate new sensor technologies as they become available
- **Scalability:** As the infrastructure expands, the platform should be scalable to handle the increasing number of assets and sensors that need to be monitored
- **Upgradability:** The platform should have the ability to be upgraded and enhanced with new features and functionalities as needed
- **Interoperability:** It is important that the platform is designed to be interoperable with other systems and technologies within the customer ecosystem
- **Machine Learning and AI:** These technologies can analyze large volumes of data, learn from patterns and anomalies, and provide adaptive responses to evolving threats

To meet these requirements, Axient uses the AssessSM process, which includes C-UAS Defense Design software. Axient has also developed a cloud-based global real-time command-and-control platform named AwareTM. The AwareTM platform provides both localized and enterprise-wide situational awareness in a single visual offering. AwareTM is built using the Tactical Awareness Kit (TAK) which is software developed by the DoD and is trusted by over 40,000 DoD, DHS, and military users. Additionally, TAK is also used by 32,000 non-federal users and 100 commercial licenses worldwide.

