

# VigilantHalo

REAL-TIME  
COMMAND AND CONTROL



VigilantHalo is a Modular Open Systems Approach (MOSA) compliant, software driven Command, Control, Communication, Computers, Cyber Intelligence, Surveillance, and Reconnaissance (C5ISR) system. VigilantHalo is network optimized for full air, surface, sub surface, and space awareness with configurable full-scale visualization and Artificial Intelligence (AI) decision support and weapons target pairing tools for existing Battle Management Command and Control (BMC2) networks.

## \_Agnostic Deployment

Fundamentally configured for three deployment options depending on the user's operating environment and needs, VigilantHalo can be deployed to the cloud, to a fixed site, or to a mobile platform - laptop or vehicle.

## \_Radar Integration and Multi-sensor Fusion

As a sensor-agnostic software and hardware automation platform, VigilantHalo permits efficient integration with multiple external radar systems simultaneously. The custom-built state-of-the-art Sensor Data Processor (SDP) smooths, rejects clutter, and performs multi-sensor fusion and tracking of surveillance data, providing a clean, precise four-dimensional position of all aircraft (manned or uncrewed) within the surveillance coverage volume.

## \_C-UAS Integration

VigilantHalo is easily configured for various missions including Counter UAS (C-UAS) via AV's suite of products including the non-kinetic effector LOCUST Laser Weapon System (LWS), Titan™ RF defeat product, and SkyView passive RF detection and tracking system.

## \_Resilient Network Backbone

Enhance the power of VigilantHalo with our fast, secure, flexible network add-on to power autonomous coordination, sensor fusion, and real-time data routing. With robust encryption, our trusted, secure, self-healing mesh network can link diverse systems—drones, vehicles, submarines—across cloud, on-prem, and edge environments without the need for traditional infrastructure or complex configuration. This software-based add-on is sensor, network, and system agnostic and closes the gap between innovation and deployment. As a low-cost add-on to our VigilantHalo system, this software can be easily fielded and integrated and scaled quickly as mission needs evolve.

### [NETWORK FEATURES]

Completely Centralized Networks

Unlimited Scale SD-WAN

Defense-Grade Cryptography

Fast & Standards Compliant

### [AGNOSTIC DEPLOYMENT]



#### FIXED-SITE

VigilantHalo easily integrates into fixed-site facilities, such as base security commands and air traffic control rooms.



#### CLOUD & MOBILE PLATFORMS

VigilantHalo can be deployed anywhere to any device through its secure cloud architecture. It provides operators with on-the-go airspace command and control from any mobile platform, including laptops, tablets, or command vehicles.