

# PESA

## SECURA®

### USE CASE

#### UNMANNED AIRCRAFT SYSTEMS (UAS / UAV)



## MISSION VIDEO DATA SYSTEM FOR UNMANNED AIRCRAFT SYSTEMS & VEHICLES (DRONES)

SECURA® is the ultimate Mission Video Data System (MVDS) for securing and managing unmanned aircraft system (UAS) video, audio and KLV data and distributing this information in multi-domain environments subject to policy. Drones provide valuable situational awareness for decision making in command and control, intelligence, surveillance, and reconnaissance (C2ISR).

SECURA® is a modern architected software MVS for zero trust drone environments requiring reliability with advanced capability in degraded networks. The Control plane manages the secured edge (drone) utilizing NIST FIPS 140-3 crypto and Mutual TLS (mTLS 1.2) authenticating each and every drone with advanced key and certificate management.

The independent Data plane for video and audio (including TS and KLV data) is encrypted with AES256 for real-time high resolution distribution from any source to any destination, scalable to thousands of nodes (drones and viewers). SECURA® can also operate over wireless and wired degraded networks utilizing H.265 motion codecs.

Delivering secure high-resolution video is paramount, especially in mission-critical operations. Live drone video streams require SECURA® as they are highly vulnerable to eavesdropping and interception, making it crucial to have an integrated multi-domain capable mission video system.

## SECURA® CAPABILITIES

- Live Digital Video Recording and Distribution, Storage
- End to End security
- Enhanced security between drone and ground station
- Utilizes advanced key and certification management
- Mutual authentication between drone and ground destination
- Double encryption (SECURA® encryption and radio encryption)
- Integrated with terrestrial distribution
- Distributed C2 and drone launch center architecture
- Integrated with cloud for both distribution and enhanced processing
- AI/ML, video analytics processing (in Cloud or Enterprise)

# PESA

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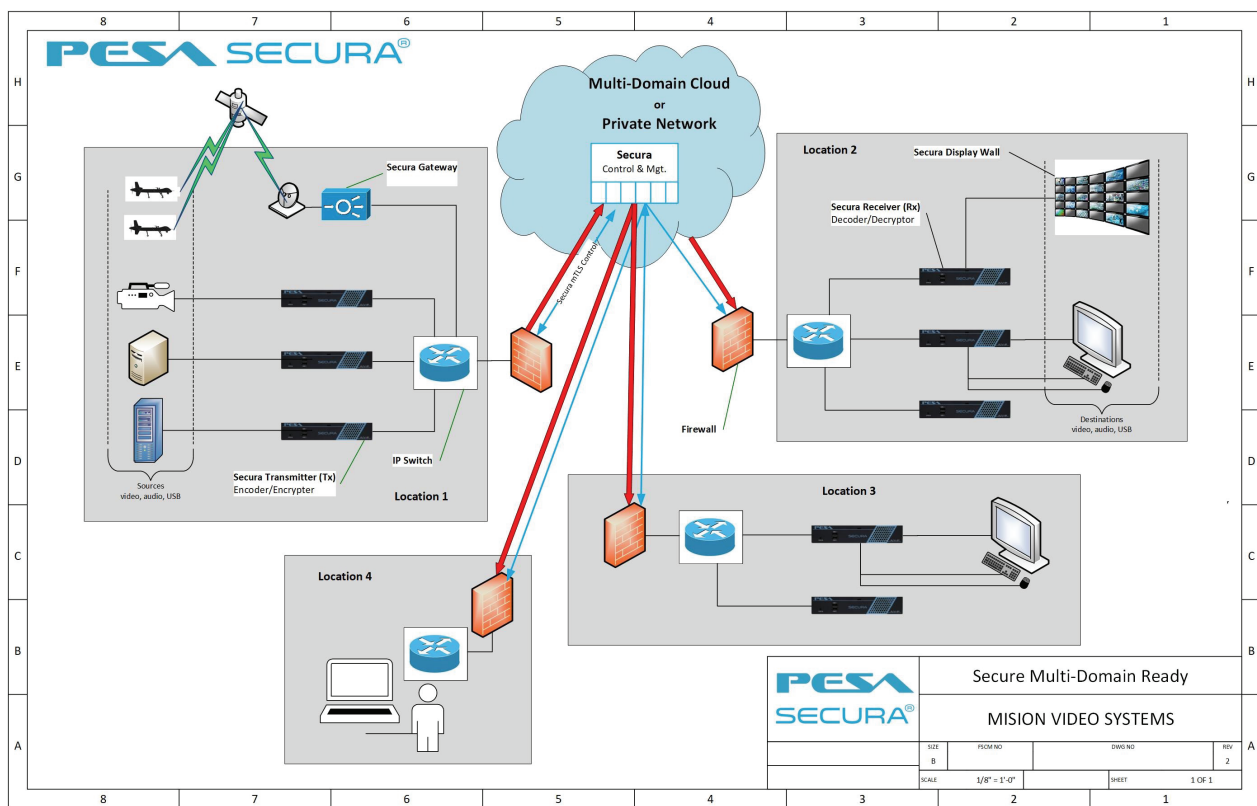
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**MISSION VIDEO DATA SYSTEM FOR UNMANNED AIRCRAFT SYSTEMS & VEHICLES (DRONES)**

With the NIST-certified crypto stack installed in the drone, video data is secured end-to-end from source to destination. SECURA® operates on LAN/WAN networks, on-premises, hybrid cloud, cloud and cloud-edge built on DoD guidelines. If SECURA®'s software stack cannot yet be installed on the drone, PESA has alternative solutions if end-to-end encryption is not currently needed.

When used with Cloud computing, video data can be sent to authorized artificial intelligence (AI), machine learning (ML), video analytics and other cloud-resident applications. This is a force-multiplier capability, which will future proof the drone architecture.

With SECURA®, your video content is always protected, allowing you to achieve your objectives at the speed of the mission, without compromising security. SECURA® is the perfect solution for drone systems.



SECURA® is the ultimate Mission Video Data System (MVDS) for securing and managing unmanned aircraft systems (UAS) video, audio and KLV data. Drones have become increasingly necessary in military operations, including providing valuable situational awareness for command and control, intelligence, surveillance, and reconnaissance (C2ISR).