

Secure, Real-Time Full Motion Video Cross Domain Transfer

Summary

INDUSTRY

U.S. Defense & Intelligence

CHALLENGE

Accredited, secure, real-time full motion video cross domain transfer with filtering capabilities

SOLUTION

CDFMV

BENEFITS

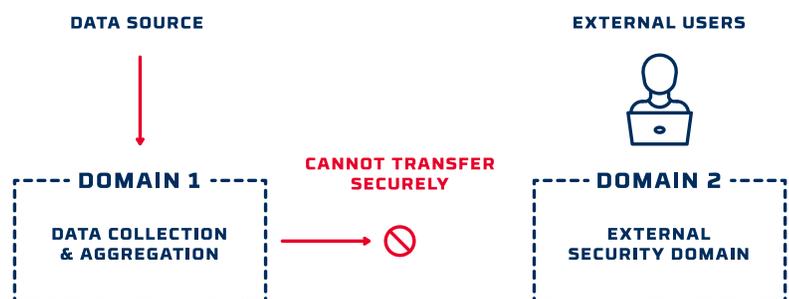
Low latency HD video transfer between security domains with bidirectional content filtering, geofencing capabilities, and ISA

Cybersecurity Challenge

Full motion video (FMV) has been a game changer in the world of tactical information. A real-time visual of contested spaces enables high value target tracking and reduces collateral damage. As such, demand has increased exponentially, to the point where FMV capability is virtually assumed. However, for the U.S. Department of Defense (DoD) and the Intelligence Community (IC) to securely utilize full HD video streams for intelligence, surveillance, and reconnaissance (ISR), they require an accredited cross domain solution capable of filtering and transferring the heavy load of FMV data across security domains, without introducing significant latency. This includes filtering or restricting video which contains sensitive information, such as video collected from restricted zones, from being shared with unauthorized parties.

REQUIREMENTS

- Support a minimum of 18 filtered full HD streams (1080p) with less than 100ms of latency
- The ability to blackout video collected within selected geocoordinates
- The ability to control Integrated Sensor Architectures (ISA) using bidirectional capabilities across security domains
- The ability to dynamically select configured video source and destination (such as monitor)



Before Architecture

Solution

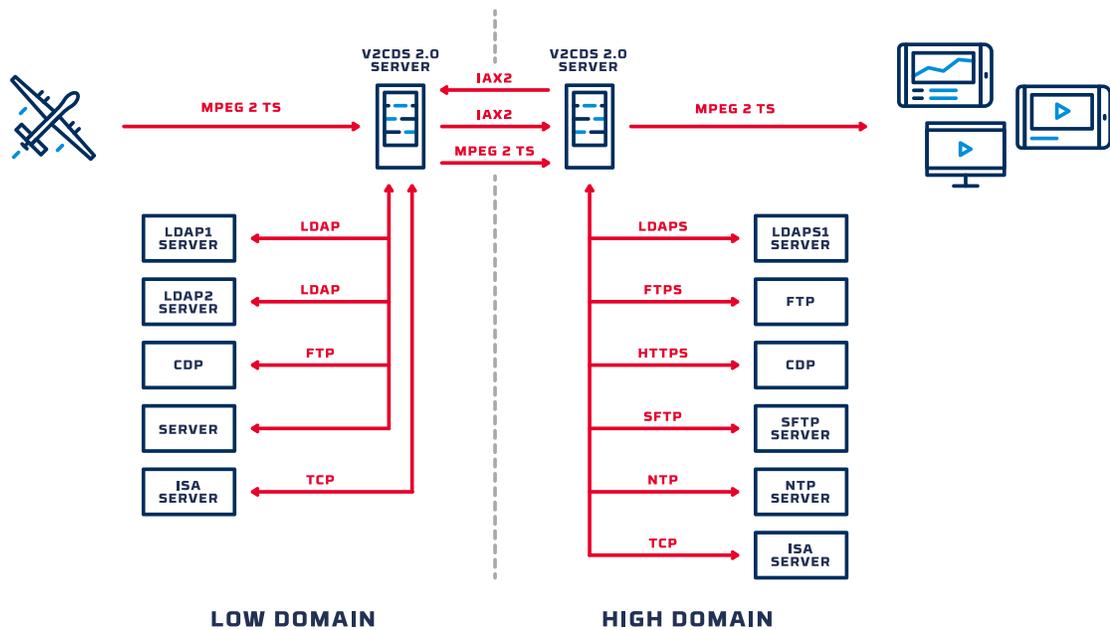
Owl's Cross Domain Full Motion Video (CDFMV) was developed in response to the ever-increasing demand for an efficient, secure transfer method for full motion video. CDFMV is the world's most advanced full motion video cross domain solution, designed to securely and efficiently filter and deliver up to 18 full 1080p HD video streams at near-real-time between two secure network domains. CDFMV's encoder profiles allows for the optimization of the video's quality at the destination. Our CDFMV solution using the Integrated Sensor Architecture (ISA) enables the remote domain to send messages that control the camera's field of view on the local domain.

CDFMV

CDFMV is the next generation cross-domain system that enables secure sharing and filtering of FMV, including KLV metadata, between network domains. CDFMV leverages Owl's certified V2CDS technology that supports full motion video between two security domains.

Results

- Secure, low-latency, and user-friendly cross-domain full motion video transfer
- Geofencing capabilities automatically black out classified locations from data transfers
- Optimize video based on selectable video encoder profiles and change which feed are being sent from / to
- V2CDS Assured Pipeline mitigates covert channel risk



Owl Cyber Defense cross domain, data diode, and portable media solutions provide hardened network security checkpoints for hardened threat prevention and secure data availability. For over 20 years, Owl's unmatched expertise, products, and services have been trusted by clients in government, defense, critical infrastructure, and commercial organizations around the world.

For more information on Owl, or to schedule a demo, visit www.owlcyberdefense.com