

USE CASE

Secure, Real-Time Full Motion Video Cross Domain Transfer

Challenge

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

Solution

→ V2CDS securely and efficiently filters and delivers up to 18 full 1080p HD video streams at near-real-time between two secure network domains.

Benefits

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

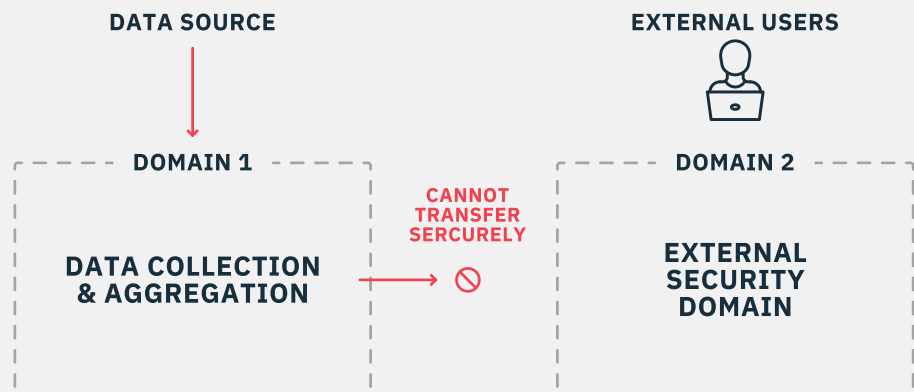
The Challenge

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)

USE CASE: BEFORE

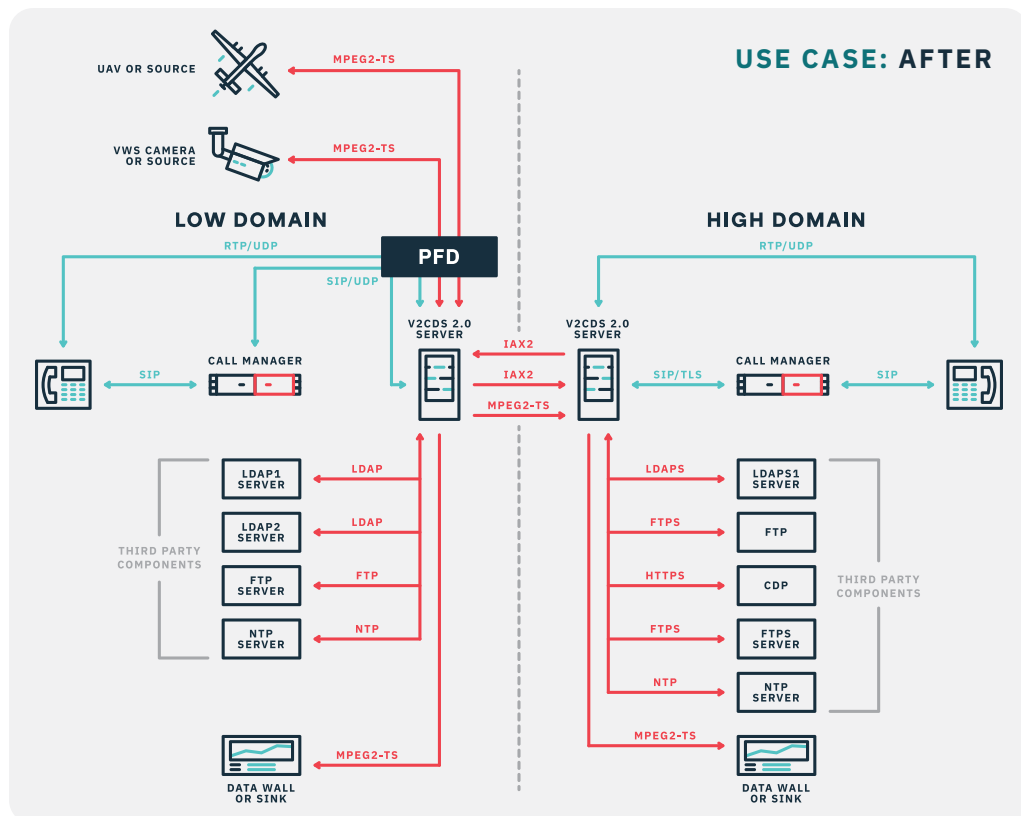


The Solution

Owl's V2CDS was developed in response to the ever-increasing demand for an efficient, secure transfer method for full motion video. V2CDS is an 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. V2CDS's encoder profiles allows for the optimization of the video's quality at the destination. Our V2CDS 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.

The Result

- 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



V2CDS™: Cross Domain Voice, Video, & Data.

V2CDS is a mission-tested, U.S. Government-certified cross-domain solution for secure, real-time cross-domain voice, video, and structured data. V2CDS is purpose-built to support fixed facilities, forward-deployed sites, and rugged tactical environments where operational continuity and classification integrity are non-negotiable. Adaptable to diverse mission requirements, V2CDS consolidates the deepest FMV filtering available, industry-leading cross-domain voice and VTC and DFDL-based data filtering for increased user control on a single certified platform defence & intel missions depend on.

