OWL Cyber Defense

ASSURED COLLABORATION SOLUTIONS

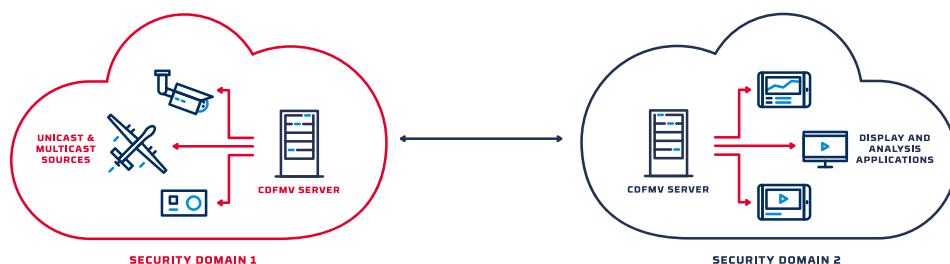# Cross-Domain Full Motion Video (CDFMV)

KEY FEATURES

- Filters each frame / pixel in a video stream
- Metadata filtering including KLV
- "Raise the Bar" (RTB)

Full Filtering and Sanitization of Video and Metadata

The balance between protecting and sharing critical information has never been more crucial than in providing force protection in today's Joint and Coalition military environments. There is a need to stream video sources including HD cameras, UAVs and GoPro's up to classified networks for real time analysis. This requires a cross domain solution (CDS) that can filter the video and audio content in real time with minimum latency.

The Owl Solution

As a part of Owl's Assured Collaboration Systems, the Cross Domain Full Motion Video (CDFMV) CDS delivers real time bi-directional video and audio communications across network security boundaries. CDFMV reduces covert channels to an acceptable risk, while simultaneously maintaining point-to-point video capability. No other FMV CDS on the market today performs this level of filtering to meet the latest DoD certification requirements.

UNICAST & MULTICAST SOURCES — CDFMV SERVER — SECURITY DOMAIN 1

CDFMV SERVER — DISPLAY AND ANALYSIS APPLICATIONS — SECURITY DOMAIN 2

## Exclusive NSA-Certified Audio/Video Filtering

CDFMV leverages Owl's Voice & Video Cross Domain Solution (V2CDS), the only VoIP CDS on the National Cross Domain Solution Management Office (NCDSMO) Baseline, and the only Cross Domain Solution (CDS) certified by the NSA for Secret And Below Interoperability (SABI) & DIA for Top-Secret And Below Interoperability (TSABI) to filter audio / video streams.

Core Functionalities

Assured Pipeline Architecture protects sensitive information and minimizes covert channels.

- Base 2U configuration filters multiple simultaneous HD 1080p FMV streams
- The number of total streams supported scales with additional hardware
- Meets rigorous DoD & National Security Agency (NSA) standards
- Filtered video proven to provide quality and security required for high side analytics / steganography

Cross Domain Full Motion Video
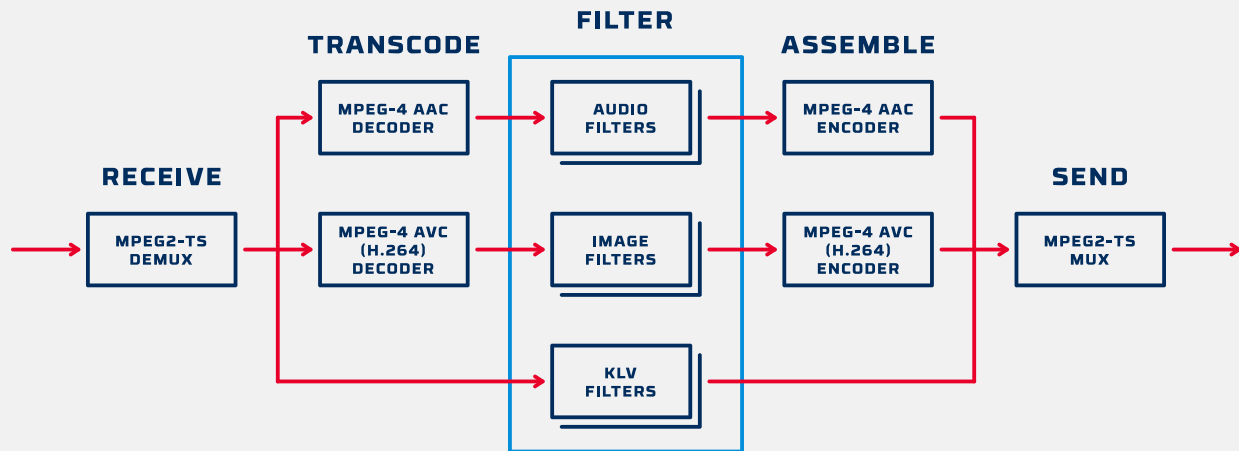
Security and Certification

- Enforces two network interface cards (NIC) configuration for two IP subnets to maintain separate CDS internal networks
- Complies with multiple Risk Decision Authority Criteria (RDAC) mitigations and National Institute of Standards and Technology (NIST) Special Publication 800-53 security controls
- Mitigates covert transmission of information over video through real-time security filtering
- Provides accountability mechanisms, including monitoring of video for playback and auditing purposes
- Maintains strict packet handling conformance to industry standards while protecting against protocol exploits
- Video Transcoding (Encode/Decode)

Features

- Supports MPEG-2, MPEG-4 , H.263, H.263+, H.264 feeds
- Supports IP/UDP (Unicast, Point to Point), RTP, and SRTP
- Multicast support between video source and sinks
- Real-time transfer across the CDS with the mandated A/V filtering and trans-coding as required by the SABI LBSA certification (not just accreditation) process
- XSLT filter for KLV modification: redaction and geo-fencing
- Customize filter settings per source stream based on level of trust / security risk
- Supports ISA protocol for camera discovery and control
- Supports the latest RTB requirement for Remote Monitoring & Management

OWL Cyber Defense

Owl Cyber Defense Solutions, LLC leads the world in data diode and cross domain network cybersecurity. With a constant focus on customers in the military, government, critical infrastructure, and commercial communities, Owl develops market-first, one-way data transfer products to meet a variety of operational needs, from entry level to enterprise.

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