USE CASE

Cross Domain Screen Share Streaming & Distribution

For Scalable, Secure Visual Collaboration in Real-Time

Common Use Cases

- → Remote access to bespoke systems
- → Large volume of conference call users
- → Low site-to-site bandwidth

Challenge

Inability to share or monitor the screens/desktops of workstations and systems on other secure domains.

Also requires significant investment in numerous collaboration licenses for each user requiring screen share or screen view.

Solution

Desktop Encoder and Owl's certified FMV Cross Domain Solution, CDFMV.

Benefits

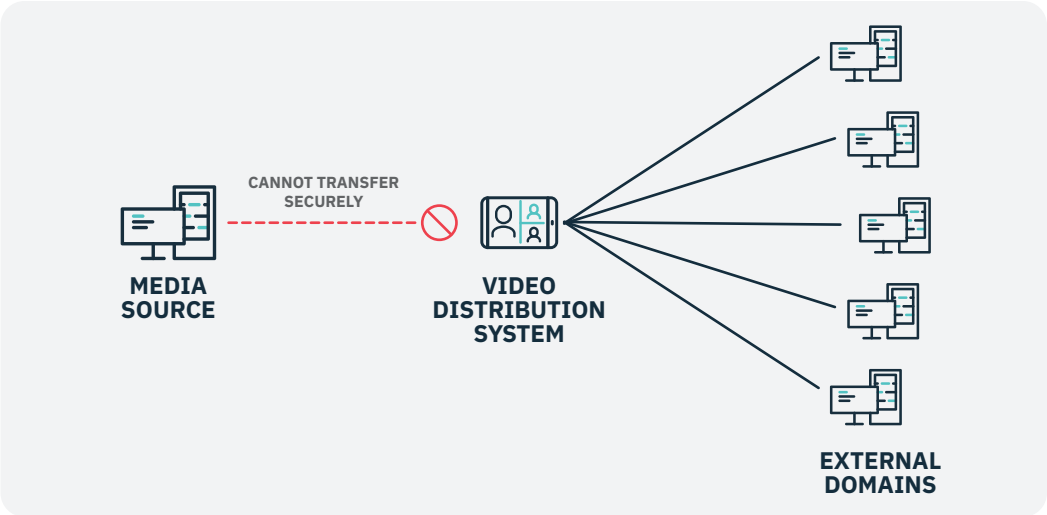
Low latency HD video transfer between security domains with bidirectional content filtering, geofencing capabilities, and ISA support.

Challenge: Securing Real-Time Screen Sharing Across Disconnected Coalition Networks

Real-time collaboration between geographically disparate personnel can be critical for coordinated decision-making and mass information dissemination. Often this collaboration occurs via large conference calls or briefings and can involve dozens to hundreds of participants, with only a small number of key contacts needing to share live screen content. However, any sharing of this information across secure network domains requires the use of both a cross domain solution as well as a collaboration solution, often virtual meeting software which requires significant investment for each user.

Requirements

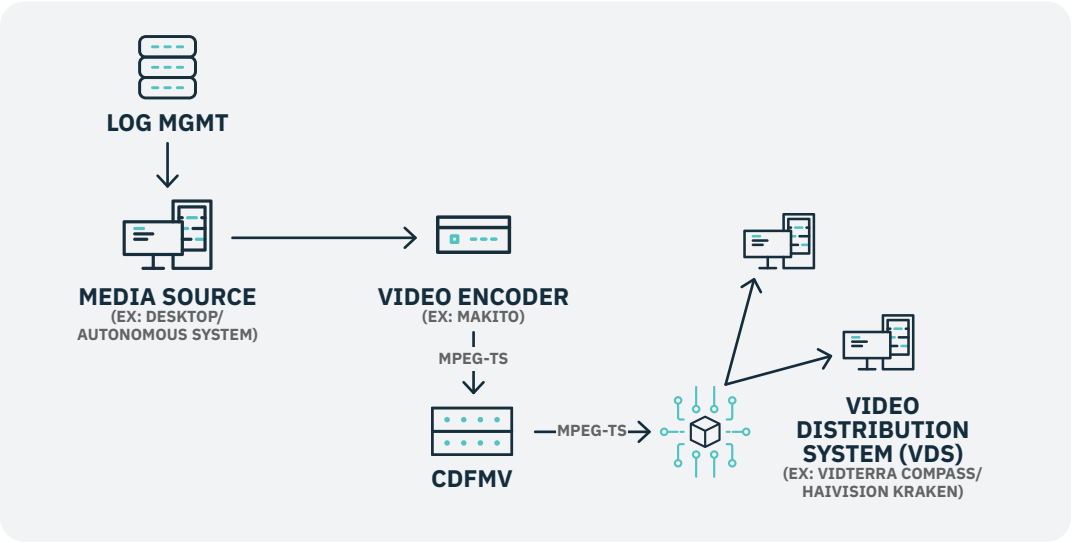
- → Secure, real-time HD video sharing for up to hundreds of users with minimal latency and reliable connectivity.
- → Immediate geofencing controls for sensitive video content, regardless of source or destination.
- → Secure, bidirectional management of integrated sensor architectures across multiple classification domains.
- → On-demand, dynamic assignment of video sources and destinations without manual reconfiguration.
- → Minimize cost and complexity by supporting large-scale collaboration without per-user licensing or redundant infrastructure.
- → Meets rigorous U.S. Government Raise the Bar program requirements.



Before: Non-Secure FMV Transfer Stifles Multi-Domain Collaboration

Solution: Remote Screen Sharing & Distribution with a Desktop Encoder and FMV CDS

Deploying a desktop encoder alongside an FMV Cross Domain Solution such as Owl's CDFMV allows agencies to securely stream and distribute desktop video across security domains without exposing sensitive platforms or requiring direct IP connectivity between the desktop and the VOIP network. In this setup, a video encoder captures the desktop display and transmits it as real-time full-motion video to end-user desktops, keeping specialized, isolated systems separate from enterprise networks and significantly reducing cybersecurity risks. Owl's CDFMV is a certified Cross Domain Solution that facilitates secure sharing and filtering of full motion video (including KLV metadata) between distinct network domains, leveraging Owl's validated V2CDS technology for robust, compliant operation.



After: Desktop Encoder + Owl CDFMV Enables Scalable, Secure Desktop Streaming & Distribution

By deploying a desktop encoder and Owl's CDFMV solution to securely share desktop video across security domains, agencies realize higher ROI and greater flexibility.

Key benefits

- → Utilizes Existing Infrastructure: Integrates with current systems, avoiding costly overhauls.
- → Efficient Video Transmission: Requires only one HD channel per site, keeping costs low and reducing complexity.
- → Affordable Large-Scale Collaboration: Lowers cost per participant compared to traditional alternatives.
- → Reduced Bandwidth Needs: Delivers the same high-quality video with significantly less bandwidth for remote users

OWL Cyber Defense™

Owl Cyber Defense Solutions, LLC, headquartered in Columbia, MD, leads the industry in data diode and cross-domain network cybersecurity solutions for faster, safer and smarter decision making. We create solutions tailored for high-risk sectors including the military, government and critical infrastructure. Our advanced technologies enable secure, near-instantaneous collaboration, bridging network barriers to protect critical missions. With a focus on scalability and interoperability, Owl ensures that organizations can maintain secure, reliable, and compliant communication channels against evolving cyber threats.

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

203-894-9342 | owlcyberdefense.com