

XD Vision™ 2.0

Unified Cross-Domain Collaboration Platform

One platform. Flexible configurations. Uncompromising security for every mission.

Key Features

- Unified platform with four configuration options to support diverse mission requirements
- Meets U.S. Government's CDS Baseline requirements and approved for deployment to the U.S. DoD & IC
- Meets rigorous "Raise the Bar" standards
- Certified cross-domain VoIP, RoIP, and VTC across existing call infrastructure to preserve investments and simplify deployment
- Real-time HD FMV filtering with pixel-level and KLV metadata controls for precise risk reduction in high-threat missions
- DFDL-based binary and XML streaming without vendor lock-in to speed new format support and cut lifecycle costs
- Centralized, high-side management and monitoring at scale with secure 2-factor HTML5 console access, RMON/rsyslog visibility, and dedicated DCO interfaces

Supported Data Formats & Transport Layers

- VoIP (UDP, SIP, RTP)
- Video (MPEG, H.263, H.263+, H.264)
- Voice (G.711, G.722, G.722.1, G.722.C)
- XML and ISA C2 data transfer

XD Vision™ 2.0 is Owl Cyber Defense's® next-generation Cross Domain Solution (CDS) platform purpose-built for the full spectrum of defense and intelligence mission requirements. It consolidates Owl's mission-tested legacy CDS into a single modular architecture that enables secure, real-time cross-domain communications, including VoIP, VTC, FMV with KLV and geo-fencing, chat, and structured data streaming. Available in multiple form factors and configurations, XD Vision 2.0 reliably scales from peer (2-domain) links to complex multi-domain environments. Backed by ongoing U.S. Government evaluation, it features flexible protocol adapters, pluggable content filters, remote management and monitoring, enhanced auditing, and a unified, intuitive GUI. XD Vision 2.0 delivers the flexibility, scalability, and defense-grade security required to accelerate mission readiness from the enterprise core to the tactical edge.

One Platform. Extensive Mission Possibilities.

XD Vision 2.0 goes beyond point CDS products by unifying data, voice, video, and collaboration in a single accredited platform to reduce integration risk and lifecycle cost. Its modular design lets programs add new domains, data types, and mission applications without rip and replace hardware, enabling rapid scale as requirements evolve. Its hardware-enforced, Raise the Bar-aligned design delivers higher assurance than software only approaches, while reusable accreditation artifacts further speed time to field for new deployments and upgrades.

Accelerate Real Time Insight & Decision Advantage.

The unified and versatile XD Vision 2.0 platform supports a wide range of mission use cases. Point to point configurations excel in tactical environments requiring FMV, streaming data, text chat or audio in compact form factors, and in high volume data exchanges between two domains with physical separation. Enterprise configurations enable complex, multi domain data center operations- scaling secure workflows for high density, multi domain requirements such as those of Joint Program Offices (JPOs).

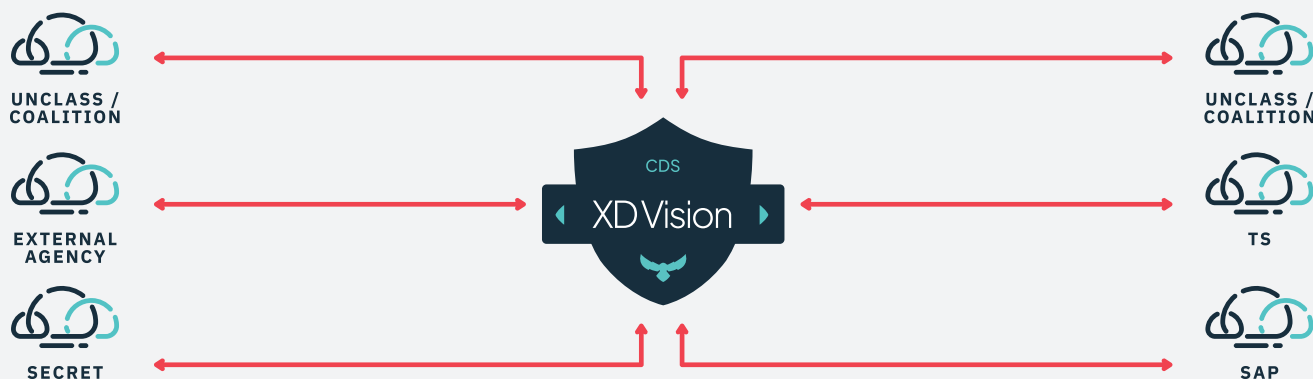
XD Vision 2.0 Enforcement Components

XD Vision 2.0 uses a distributed architecture to control and secure cross domain exchanges. The Dispatcher verifies that only authorized domains can exchange data based on the active security policy, then routes approved traffic to an available Pipeline Appliance (PLA). Each PLA enforces policy by filtering and managing data flows between domains before returning traffic for delivery. On each connected network, a Gateway Server hosts protocol adapters for mission data types, such as voice, video, chat and structured data, enabling secure transfer without exposing core applications.



This product is ITAR controlled and additional licenses may be required to export.





How It Works

XD Vision™ 2.0 is built on a modular, compartmentalized architecture that integrates pluggable container filters, flexible protocol adaptors, and unified data pipelines supporting voice, video, chat and structured data. By combining the proven capabilities of Owl's XD Vision 1.0, XD Bridge ST™, and V2CDS™ cross domain solutions, the platform delivers multiple hardware form factors and deployment models within a single, unified product. This architecture enables faster feature development and accreditation, shortens time to market, and empowers operators to adjust data transfer capabilities without vendor reliance.

XD Vision 2.0: Secure, Unified, Flexible CDS Collaboration Platform. Configurations that adapt to your mission, not the other way around.

XD Vision 2.0's innovative architecture is designed for maximum adaptability, supporting four installation options to meet specific operational demands. Each installation meets rigorous U.S. Government cross domain solution standards and leverages the same core software for consistent security and performance.

- **Point-to-Point Dual Server** configuration, ideal for high-volume peer VoIP, FMV, & data streaming with strict hardware separation requirements.
- **Enterprise Distributed** configuration, ideal for complex enterprise environments requiring secure, simultaneous voice, video, & data transfer across multiple domains.
- **Single Box Multi-Domain** configuration, designed for scalable data & audio streaming across up to 12 domains from a single chassis.
- **Point-to-Point Single Server** configuration, to be validated during LBSA, is optimized for low-SWaP environments with streaming data, audio & FMV requirements.



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.

