

## USE CASE

# Secure, Real-Time ISR Data Sharing

Realize real-time, high-assurance data transfer

## Summary

### Challenge

Secure, real-time ISR data sharing across coalition partners was limited by network and export restrictions.

### Solution

XD Bridge ST provides secure, fast & flexible ISR data transfer with advanced filtering.

### Outcome

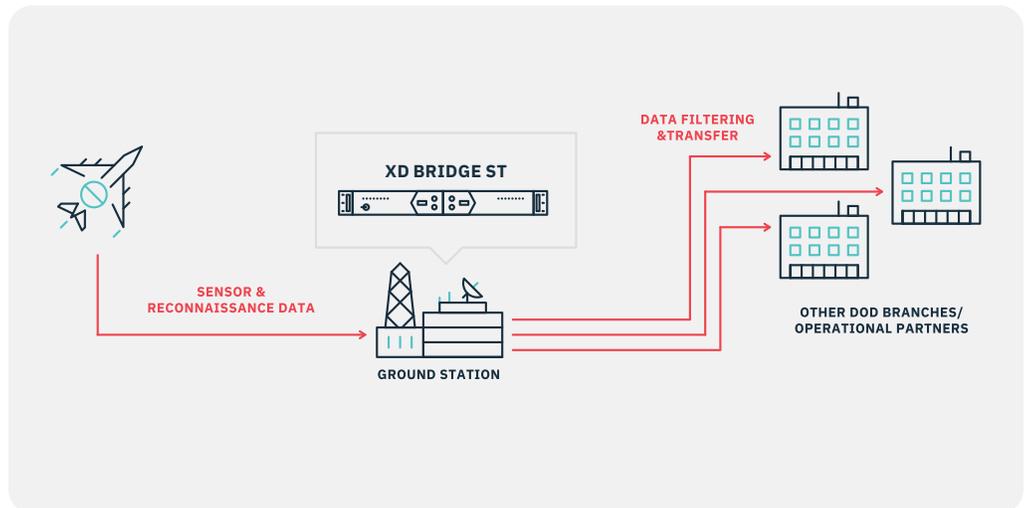
Coalition partners achieve faster, safer, and more efficient ISR data sharing and decision-making.

## Challenge: Barriers to coalition data sharing

Integrating coalition partners into the Link16 defense communication network revealed persistent challenges for intelligence, surveillance and reconnaissance (ISR) data sharing, especially when relying on manual “walk-net” hand-offs. This process delayed critical decision-making and limited operational effectiveness, making it difficult for U.S. and allied forces to collaborate efficiently. Rapid, secure, and export-compliant intelligence exchange—compatible with diverse ISR data formats—became essential to maintain coalition responsiveness and mission agility. U.S. forces needed a secure, exportable solution to share live ISR data with allies—including those outside the Five Eyes—without compromising sensitive information or violating export restrictions. The solution had to support high-speed, real-time data transfer and be compatible with diverse ISR data formats to ensure seamless collaboration and maintain tactical advantage.

## Solution: Owl XD Bridge ST™

Owl's Raise the Bar (RTB)- ready XD Bridge ST™ CDS enables secure, real-time ISR data sharing from field assets like UAVs, using certified, hardware-enforced cross domain separation. Coalition partners and U.S. forces gain immediate operational visibility, replacing manual processes with high-assurance, fast, and exportable transfer for joint missions.



## Results

Deployment of XD Bridge ST™ transformed ISR data sharing for joint operational command partners by delivering secure, real-time communications that increase situational awareness and streamline workflows.

- Hardware-enforced domain separation and assured filtering prevent data leakage and unauthorized exposure, reducing manual delays and compliance risks.
- Rapid, reliable delivery of actionable intelligence improves operational efficiency and decision-making across coalition forces.
- Risk of blue-on-blue incidents is minimized through secure data exchanges and selective format support.
- Compatibility with diverse ISR formats enables seamless coalition collaboration in dynamic mission environments.

## XD Bridge ST™: Secure, High-Speed Cross Domain Data Sharing for Mission Assurance

XD Bridge ST provides agencies secure cross domain data sharing, streaming, and collaboration. It features hardware-enforced separation and has been validated through rigorous government testing and after successful completion of the U.S. Government's Lab Based Security Assessment (LBSA) process, has achieved certification of the National Cross Domain Strategy and Management Office (NCDSMO)'s Cross Domain Solution standards. The platform supports high-speed, low-latency data transfer with customizable pipeline filtering for structured and unstructured data. Agencies benefit from best-in-class throughput, comprehensive data inspection, flexible deployment options, and assured compliance. XD Bridge ST™ enables secure ISR streaming, unclassified data feeds, coalition/partner exchange, and automated software updates—all with industry leading resiliency and operational flexibility.



XD Guardian XML is the exportable counterpart to XD Bridge ST, purpose-built and thoroughly validated as a cross domain solution for commercial or defense organizations worldwide that require high-assurance, military-grade data transfer—providing trusted and compliant data flows.



Scan the QR code or visit [owlcyberdefense.com/product/xd-bridge-st/](https://owlcyberdefense.com/product/xd-bridge-st/) to learn more



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](https://www.owlcyberdefense.com).

