

# XD Bridge ST™

Cross Domain Solution for Streaming Fixed Format and Structured Data

## Key Features

- TCP/UDP streaming of structured (XML schemas) and fixed format data messages
- Hardware-enforced diode-based domain separation, certified to meet U.S. Government High Threat Network connectivity standards
- Software-enforced linear assured pipeline filtering
- Multiple pipelines/dataflows enable simultaneous, independent data transfers
- Secure, high-speed, policy-driven data transfer, deep inspection, configurable filtering, and protocol versatility
- Available in data center form factor with support for up to 10Gbps

## Compliance

- Meets U.S. Government CDS Baseline requirements
- CLIP enforced STIG compliant configuration



## RTB-Ready Secure Data Transfer

XD Bridge ST™ is a streaming structured and fixed-format Cross Domain Solution (CDS) featuring hardware-enforced domain separation, certified by the U.S. Government for secure, high-speed, and compliant data transfers between security domains. It delivers robust content and dataflow assurance, ensuring only validated information crosses boundaries.

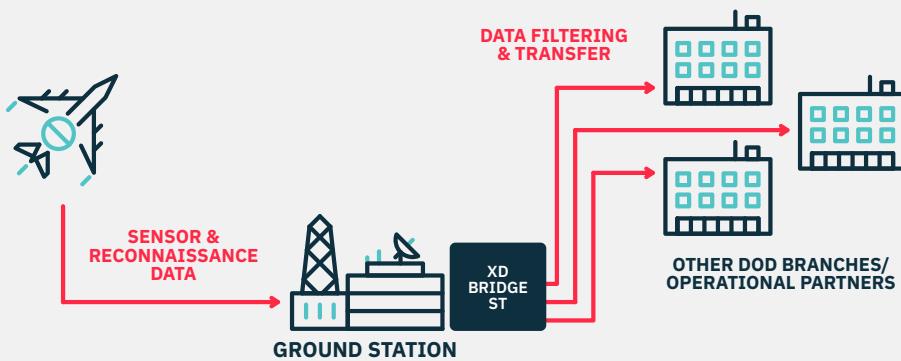
**Assured Structured Data Handling:** XD Bridge ST securely transfers structured data using DFDL-based schema validation and redundant linear filtering pipelines, ensuring only compliant, authorized data crosses security domains.

**Flexible Data Flow and HTN Compliance:** Supporting unidirectional and bidirectional flows, XD Bridge ST uses U.S. Government approved data diodes for hardware-enforced separation, meeting High-Threat Network (HTN) data sharing requirements.

**Customization and High Performance:** Customers can apply custom XSLT stylesheets for ruleset filtering. Multiple form factors and up to 10 Gbps bandwidth provide high performance and flexibility for mission-critical deployments.

## XD Bridge ST: Secure Real-Time Sensor Sharing for Joint Ops.

The U.S. DoD needed to securely share real-time surveillance data with joint operations partners while filtering classified details. Deploying Owl XD Bridge ST enabled policy-based filtering and near-real-time transfer. This allowed partners immediate access to actionable intelligence without exposure to sensitive information, enhancing situational awareness and reducing blue-on-blue conflict risks.



## How It Works

XD Bridge ST uses hardware-enforced separation, linear pipeline filtering, and protocol adapters to securely transfer validated, structured and streaming data between networks, supporting formats like XML and VMF.



### Supported Protocols Include:

- UDP – Unicast/Multicast
- TCP – TLS
- up to 10 GbE

### Supported XML content (up to 100MB)

#### RAIN-compliant content filtering:

- DFDL (e.g., SYSLOG, Fixed Format Messaging)
- XML Schema (XSD)
- XML Stylesheet (XSLT)
- Complex Dirty Word Search (DWS)
- Also supports: XMLDSig and XProc filtering



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

