

## USE CASE

# Secure Data Transfer for Coalition Aircraft

Exportable CDS for seamless, standards-based mission data transfer

### Summary

#### Challenge

No exportable, certified CDS for coalition aircraft data transfer.

#### Solution

XD Guardian XML—secure, exportable, customizable CDS.

#### Outcome

Coalition partners achieved compliant, secure, and flexible data exchange.

### Challenge: Secure, Standards-Compliant Data Transfer for Coalition Aircraft

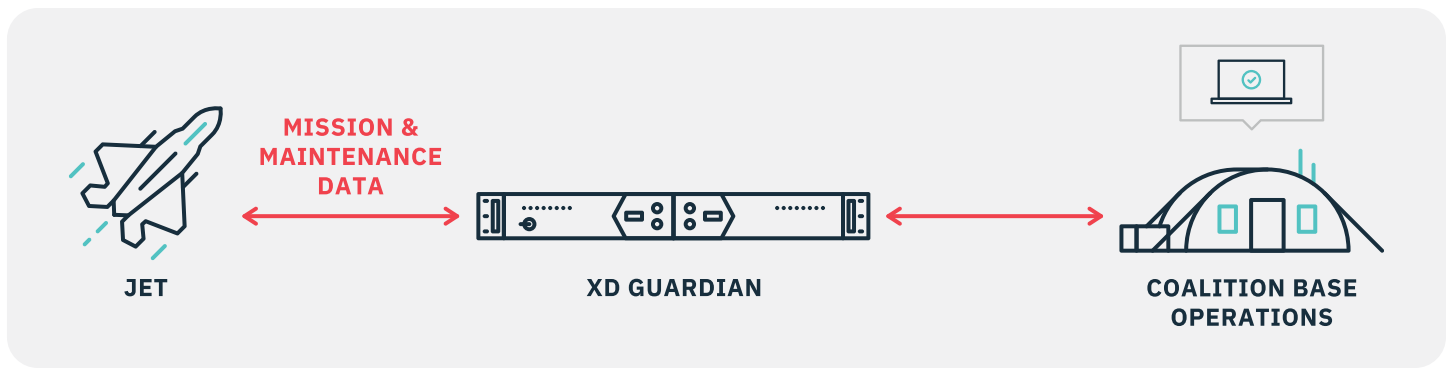
Allied forces utilizing U.S.-manufactured aircraft required secure data transfers for mission and maintenance data to and from the aircraft. The information exchange requirements for content inspection and filtering needed to meet the same standards as the U.S. configuration, necessitating the use of an accredited cross domain solution (CDS). However, export restrictions on accredited CDSs meant that no solution to meet these requirements was available for coalition partners outside of the Five Eyes (Australia, Canada, New Zealand, U.K., U.S.). In addition, because the aircraft utilized proprietary software, any new solution would also have to be configured and integrated with the software.

#### Requirements

- Exportable CDS certified for classified data
- No shared code base with U.S. CDSs
- Bidirectional transfer of multiple data types
- Customizable content filtering, policy, and configuration

### Solution: XD Guardian XML™ for Secure Coalition Information Sharing

The availability of XD Guardian XML, Owl Cyber Defense's certified and exportable cross domain solution (CDS), empowered coalition partners to securely transfer mission-critical data for coalition aircraft operations. XD Guardian XML enables real-time sharing of multiple data types, significantly accelerating time to mission and providing enhanced operational flexibility. As a result of its customizable content filtering, policy enforcement, and adaptable configuration capabilities, agencies can realize secure, compliant, and efficient data exchange across diverse coalition networks and mission requirements.



## Results

Coalition partners deployed XD Guardian XML, achieving secure, standards-compliant data transfer for mission and maintenance operations. The solution's exportable certification, unique code base, and robust filtering enabled seamless integration with proprietary software and ensured regulatory compliance.

## Key Outcomes

- Secure, certified data transfers
- Exportable, compliant solution
- No code overlap with U.S. CDSs
- Flexible, policy-driven filtering
- Bidirectional, multi-type data exchange

## XD Guardian XML: Secure, High-Assurance Data Transfer Across Security Boundaries

XD Guardian XML is a U.S. government certified, dual-guard, quad diode cross domain solution. It is the only exportable CDS available for commercial or defense deployments worldwide in organizations that require military-grade data transfer assurance. Featuring best-in-class performance with 1 Gb network interfaces, XD Guardian XML supports both unidirectional and fully bidirectional transfer modes with customizable content filtering and policy configuration. It is available in a standard 1U 19" rack-mountable configuration for use in enterprise applications and multiple tactical form factors. XD Guardian XML is a U.S. government accredited, dual-guard, quad diode cross domain solution. It is the only exportable CDS available for commercial or defense deployments worldwide in organizations that require military-grade data transfer assurance. Featuring best-in-class performance with 1 Gb network interfaces, XD Guardian XML supports both unidirectional and fully bidirectional transfer modes with customizable content filtering and policy configuration. It is available in a standard 1U 19" rack-mountable configuration for use in enterprise applications and multiple tactical form factors.



Owl Cyber Defense Solutions, LLC, headquartered in Columbia, MD, is a pure play cybersecurity company solely focused on purpose-built, made-in-the-USA data diode and cross domain solutions. Trusted to protect the most sensitive government and commercial networks worldwide, our technologies are developed and manufactured to meet the strictest U.S. security standards. Owl enables secure, near-instantaneous collaboration across network boundaries—powering faster, safer, and smarter decisions for military, federal, and commercial critical infrastructure organizations. With a focus on scalability, interoperability, and regulatory compliance, Owl ensures resilient communication in the most high-threat environments. Rigorously tested. Globally trusted.

