

Secure, Tactical Cross Domain Transfer of Aircraft Surveillance Data

Summary

INDUSTRY

U.S. Department of Defense

CHALLENGES

Securely transmitting filtered sensor and reconnaissance data from field aircraft in real time

SOLUTION

Owl XD Bridge cross domain solution and Scowt tactical hardware platform

BENEFITS

Filtered real-time data transfer enabled joint operations partners real-time visibility to field operations without exposing sensitive information

Cybersecurity Challenge

Modern field operations often feature multiple surveillance aircraft to monitor various adversarial activity, such as air, land, and sea force movement, facility activity, blue force tracking, and other intelligence based on visual and sensor data. Ordinarily, this data is fed through field command to parse and filter potentially sensitive information. However, for maximum combat efficiency and efficacy, this data is needed by joint operational command partners as near-real-time as possible, but without exposing potentially sensitive or classified data to unauthorized parties. Therefore, a direct transfer mechanism is needed, in a low size, weight, and power (SWaP) form factor that can be installed on the aircraft.

REQUIREMENTS

- Transfer surveillance and sensor data in near-real-time
- Customizable filters for sensitive or classified data/metadata based on mission security policy requirements
- Low-SWaP, tactical form factor for deployment within aircraft systems



Before Architecture

Solution

Developed specifically for tactical CDS deployments, Owl Scowt provides the ideal low-SWaP hardware platform for an onboard aircraft deployment. The Owl XD Bridge accredited, RTB-compliant cross domain solution is both compatible with the Scowt platform and provides the customizable filtering capability needed for a variety of surveillance and sensor data applications in the modern battlespace.

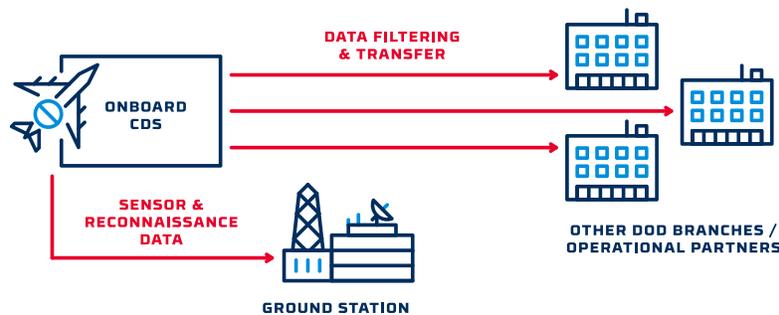


XD Bridge / Scowt

The premier cross domain guard platform for system integrators with application-specific needs. Installed on the low-SWaP Scowt mobile/tactical hardware platform for onboard deployment.

Results

- Secure, real-time transfer of sensor and reconnaissance data from aircraft to joint operational command partners
- Sensitive content filtered from data transfer to prevent unauthorized exposure / data leakage
- Increased situational awareness and operational efficiency
- Reduced time to actionable intelligence and potential for blue-on-blue conflict



OWL Cyber Defense

Owl Cyber Defense cross domain, data diode, and portable media solutions provide hardened network security checkpoints for hardened threat prevention and secure data availability. For over 20 years, Owl's unmatched expertise, products, and services have been trusted by clients in government, defense, critical infrastructure, and commercial organizations around the world.

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