Exportable CDS Enables Secure Live ISR Data Sharing

Case Summary

INDUSTRY

Defense

CHALLENGES

Exportable CDS required for ISR data sharing with coalition partners

SOLUTION

XD Guardian XML

BENEFITS

Secure, high speed cross domain transfers of live ISR data from field assets

Cybersecurity Challenge

Due to challenges with integrating coalition partners within the Link16 defense communication network, intelligence, surveillance, and reconnaissance (ISR) data sharing was limited to a "walk-net" of physical hand-offs. To increase operational effectiveness without sacrificing security, U.S. forces required an alternative method for securely sharing live ISR data between allies, including those outside of the Five Eyes (Australia, Canada, New Zealand, U.K., U.S.).

REQUIREMENTS

- Exportable CDS certified to handle classified data
- No shared code base with existing U.S. accredited CDSs
- High-speed filtering and direct transfer of live ISR data for targeting
- Tactical form factor for UAV deployment

CAN'T GET DATA
TO PARTNERS

UAV

COALITION
OPERATIONS

Before Architecture

Solution

The availability of an accredited, exportable CDS enabled coalition partners to implement XD Guardian XML on UAVs and other allied field assets. XD Guardian XML allowed the sharing of live ISR data directly from the field to U.S. and coalition partners, greatly increasing operational visibility and effectiveness over the previous transfer process.

XD GUARDIAN XML

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.

Results

- Provided an exportable CDS platform to allow coalition partners to share and utilize live ISR data

- Enabled secure, high-speed bidirectional ISR data filtering and transfers

- Tactical form factor allowed for seamless onboard deployment in an extremely low-SWaP application
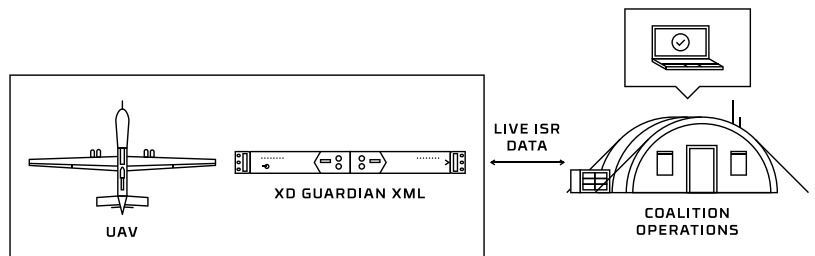
After Architecture

Owl Cyber Defense Solutions, LLC leads the world in data diode and cross domain network cybersecurity. With a constant focus on customers in the military, government, critical infrastructure, and commercial communities, Owl develops market-first, one-way data transfer products to meet a variety of operational needs, from entry level to enterprise.

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