

XD Guardian Enables Secure Data Transfer for Coalition Aircraft

Case Summary

INDUSTRY

Defense

CHALLENGES

Exportable CDS required for data transfers on/off coalition aircraft

SOLUTION

XD Guardian exportable CDS with customized filtering & policy

BENEFITS

Seamless cross domain data transfers on/off aircraft, identical to U.S. operational requirements

Cybersecurity Challenge

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 to handle classified data
- No shared code base with existing U.S. accredited CDSs
- Bidirectional transfer of multiple data types
- Customizable content filtering, policy, and configuration



Before Architecture

Solution

In coordination with the aircraft manufacturer and the U.S. National Security Agency (NSA), Owl developed a novel cross domain solution – XD Guardian – on a new code base that could be accredited for use in classified export applications, such as foreign military sales (FMS), outside of the Five Eyes. Owl also worked with the aircraft manufacturers to assist in developing custom configuration, policy, and content filtering on the CDS, tailored to the aircraft data transfer application.

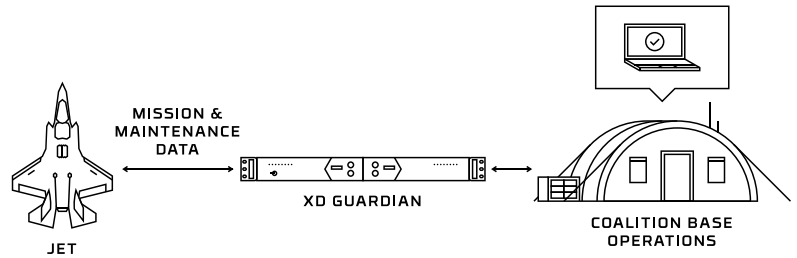
XD GUARDIAN

XD Guardian is a U.S. government accredited, dual-guard 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 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 and multiple tactical form factors.



Results

- Provided an exportable CDS platform to allow coalition partners outside of Five Eyes to utilize aircraft
- Assisted the aircraft manufacturer to develop and implement customized policy, configuration, and content filters
- Enabled secure bidirectional data transfers of multiple data types



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