



OCDS - MPP

Owl Cross Domain Solution - Multi-Protocol Platform

CROSS DOMAIN SOLUTION FOR DATA STREAMING AND FILE TRANSFER

Hardware-Enforced, One-Way Transfer Data Diodes

In defense, intelligence, and other sensitive Government operations, data streaming and file transfer dataflows are crucial components of any successful mission or organization. Whether dataflows are for the collection of sensor output and information reports, or the dissemination of command and control, alerts, and tips, the dataflow must be protected. MPP solutions are based on Owl's NCDSMO-baselined streaming and file transfer capabilities.



Absolute Protection Across Classification Environments

The Owl Cyber Defense Solution (OWL) Multi-Protocol Platform (OCDS-MPP) secures and protects file transfers and streaming between networks. This absolute protection is especially critical when dataflows are between missions and organizations working in different classifications, and high-threat environments, where unauthorized access or content is prohibited.



Robust Protection for Dataflows

The OCDS-MPP is built upon Owl's MPP CDS software platform and Owl's reduced footprint dual-node OCDS-1000 1U hardware platform to support dataflows up to 1 Gbps. Owl's MPP CDS software platform is based on a STIG compliant, CLIP enforced, EAL4+ Red Hat Enterprise Linux (RHEL) foundation. It's capable of scanning and file validation filtering to ensure only the authorized content is transferred by the dataflows. The OCDS-MPP's OCDS-1000 dual node platform includes two processing environments separated by Owl's patented hardware-enforced one-way transfer diodes. These combined technologies provide dataflow protection at the highest threat environment connections.

- UDP-based data streaming and TCP-based file transfers or data streams
- Owl Remote File Transfer Service (RFTS) for enhanced security and performance connectivity
- Up to four dataflow types: Filtered files (Remote File Transfer Service (RFTS) access to TCP sockets), Non-filtered TCP streams, UDP unicast streams, and UDP multicast streams
- TAA certified hardware



Supports Various Content Types:

- Sensor data
- Fixed format messages
- Syslog messages
- Text files
- SNMP TRAPs
- Over seventy (70) different file types





Warranty & Support

- Ninety (90) day hardware warranty with technical services (hotline service, software support and updates) and documentation (Installation Guide and Administration Manual)
- Annual Technical Services Option (ATSO)



Technical Specifications

Operating Conditions:

- 32°F to +110°F
- 0°C to +43.33°C
- 5% to 90% humidity non-condensing

Power Supply:

- Input: 75-230 VAC,
- Estimated Normal Operating Usage: 10-16W/side
- Max. 20W per side

Storage:

- -40°F to 158°F
- -40°C to 70°C
- 5% to 90% humidity non-condensing

Vibration:

- Vibration: (IEC 60255-21-1)
- Vibration 1g (10-500Hz) (Operational)
- Vibration 2g (10-500Hz) (Operational and Non-Operational)

Chassis:

- Black Anodized aluminum with Locking Top

Mounting System:

- (1U) Rack Mount

Network Connectivity:

- Separate Ethernet connections for network traffic and independent configurations
- Physical connectors: 8P8C (RJ45)
- Supports bandwidth rates of: 26 Mbps, 52 Mbps, 104 Mbps, 155 Mbps, 300 Mbps, 600 Mbps, 1000 Mbps (1 Gbps)

Cooling System:

- Conductive cooling through enclosure side walls with High Life Expectancy/Low Noise Fans

Approvals:

- FCC Class A compliance
CE Mark
CB Certificate: 72161659
UL 60950-1:2007 R10.14
CAN/CSA-C22.2 NO.60950-1-07+A1:2011+A2:2014
- International Common Criteria Certification - EAL Certified



ISO:

- Manufactured using ISO9001:2015 certified quality program

Chassis Size & Unit Weight:

- 16.5" W x 1.75" H x 13" D
- 41.91 cm x 4.5 cm x 33 cm
- 7.92 lbs./3.6 kg.

Mean Time Between Failure (MTBF):

- 11+ years

Local Administration:

- VGA connector for monitor
- USB connectors for keyboard and mouse

About Owl

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. Owl cybersecurity specialists are intimately familiar with a wide variety of industry pain points, technologies, and best practices, and have helped hundreds of organizations around the world secure their networks with Owl's patented hardware-enforced, unhackable data diode solutions.



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