

# ECDS-MPP

## Multi-Purpose Cross Domain Solution



### SUPPORTS VARIOUS CONTENT TYPES:

- Sensor data
- Syslog messages
- SNMP TRAPS
- Video Streaming
- TCP
- UDP



### Absolute Protection in Classified Environments

In defense, intelligence, and other sensitive government agencies, data streaming and file transfer data flows are crucial components of any successful operation. Whether for collection of sensor output and information reports or the dissemination of command and control, alerts, and information, these data flows must be protected. This absolute protection is especially critical when data flows are between missions and organizations working in different classifications, and high threat/contested environments, where unauthorized access or content is prohibited.

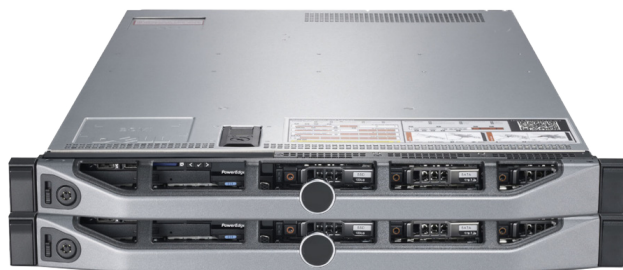
### Hardware-Enforced, One-Way Transfer Data Diodes

The Owl Cyber Defense Enterprise Cross Domain Solution - Multi-Purpose Platform (ECDS-MPP) is a validated and accredited cross domain solution designed to secure file transfers and data streaming between classified and unclassified networks. The ECDS-MPP solution is a combination of Owl's MPP software platform and ECDS two-server hardware platform to support multi-purpose data flows at up to 10 Gbps. Owl's MPP CDS software platform is based on a STIG compliant, CLIP enforced, EAL4+/OSPP Red Hat Enterprise Linux (RHEL) foundation. It's capable of scanning, validating, filtering files and streaming data to ensure only authorized content is transferred. The ECDS two-server hardware platform includes two Commercial Off-the-Shelf (COTS) servers, each with one of Owl's patented hardware-enforced one-way transfer data diode Communication Cards installed.

### Robust Data Flow Protection

To address mission and organization needs for additional physical separation and higher capacity dataflow streaming and transfer bandwidths, the Owl ECDS provides data flow protection for the highest threat environment connections.

- + Supports UDP-based unicast/multicast/broadcast data streams
- + Supports TCP-based file transfers or data streams
- + Utilizes Owl Remote File Transfer Service (RFTS) for enhanced file security, performance, and connectivity
- + Built-in filtering, scanning, and validation, based on the latest U.S. Government standards
- + Hardware is Raise the Bar (RTB) ready
- + Dell TAA compliant



\*Owl uses a pair of Dell PowerEdge servers or equivalent.

## 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

- Operating: 10% to 80% relative humidity with 29°C (84.2°F) maximum dew point.
- Storage: 5% to 95% RH with 33°C (91°F) maximum dew point, Non-condensing

### POWER SUPPLY

- Titanium 750W, Platinum 495W, 750W, 1100W, and 1600W 48VDC 1100W, 380HVDC 1100W, 240HVDC 750W
- Hot plug power supplies with full redundancy option

### STORAGE

- -40°F to 65°F
- 5% to 95% RH with 33°C (91°F) maximum dew point
- Atmosphere must be non-condensing at all times

### CHASSIS

- The PowerEdge R640 is a two socket, 1U rack system that is available in three different chassis configurations:
  - + Four hard drive chassis
  - + Eight hard drive chassis
  - + 10 hard drive chassis

### MOUNTING SYSTEM

- (1U) Rack Mount, tabletop

### LOCAL ADMINISTRATION

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

### VIBRATION

- Operating: 0.26 G rms at 5 Hz to 350 Hz (all operation orientations)
- Storage: 1.88 G rms at 10 Hz to 500 Hz for 15 min (all six sides tested)

### SHOCK

- Shock: (IEC 60255-21-2)
- Operating: 6g for up to 11ms
- Storage 7g for up to 2ms

### NETWORK CONNECTIVITY

- Separate Ethernet connections for network traffic and independent configurations
- Physical connectors: 8P8C (RJ45)
- Supports bandwidth rate up to 10Gbps

### ISO

- Manufactured using ISO9001:2015 certified quality program

### CHASSIS SIZE & UNIT WEIGHT

- Height: 42.8 mm—1.68 inches
- Width: 434.0 mm—17.08 inches
- Max depth:
  - + 757.75mm-29.83 inches, for the 8 x 2.5-inch front bay drive configuration.
  - + 808.51mm-31.83 inches for the 4 x 3.5-inch or 10 x 2.5-inch front bay drive configurations (plus up to 2 rear drives).
- Length with Bezel - 35.84 mm(1.41 inches)
- PowerEdge R640: 21.9 kg (48.28 lbs)

## OWL Cyber Defense

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](http://www.owlcyberdefense.com)



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