

# ECDS-PT01

## Packet Transfer Cross Domain Solution



### Analyze Network Traffic In Real-Time

In intelligence and defense operations, files must sometimes flow from networks of lower security levels to networks of higher security. Specifically, files often must be transferred low-to-high (L2H) from unclassified networks into Secret networks. In these cases, a reliable and accredited cross domain solution (CDS) must be utilized to ensure validation of the files and the protection of the higher security network.

### The Owl Solution

Like the ECDS-FT01 from which it is derived, the ECDS-PT01 is a two-server, enterprise solution, using a dedicated send-only server and a dedicated receive only server. The servers are connected with Owl's proprietary data diode technology to create a deterministic one-way only data transfer path. Data diode hardware provides a complete non-routable protocol break, assurance of confidentiality, and network isolation.

To support the maximum throughput of a 10 Gbps network, the ECDS-PT01 operates two DualDiode pairs running in parallel serving a single internal data transfer channel. All Ethernet frames are ingested from the source network and relayed to the destination network unchanged and without filtering. Due to the lack of data filters to configure or audit, use cases related to CDS data filter administration and data transfer auditing are also eliminated. Elimination of use cases for privileged users also eliminates the need for privileged user administration interfaces, further limiting potential access to the device.

### Functional Architecture

ECDS-PT01 presents separate Send and Receive host computer platforms connected with data diode technology. Administration of each server within the CDS Accreditation Boundary is entirely independent of the other. Server platforms are selected and optimized for data transfer performance.

#### FEATURES

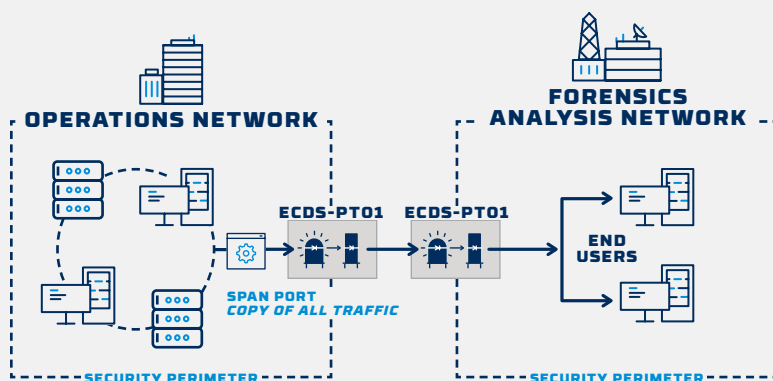
- Up to 10 Gbps link speed (Owl V7 Communication Cards)
- Discrete operation with channelized, concurrent support for disparate user needs and security policies
- Send & Receive content management
- Tailored Variant of Baseline Solution
- Modular design facilitates tailoring to satisfy changing mission requirements and expedited delta-certification processes



### ECDS-PTO1 ENABLES REAL-TIME ANALYSIS OF NETWORK TRAFFIC

If needed, a military entity could perform real-time analysis of all network traffic on an isolated forensic network. Due to the nature of the user, they would require an accredited secure solution to ensure that the protection met the standards of the NCDSMO Baseline.

The ECDS-PTO1 provides a means for one-way secure transfer of 100% of network traffic, at line rate, across security boundaries to an isolated network for analysis. Utilizing Owl's accredited DualDiode architecture as a Tailored Variant, the ECDS-PTO1 would meet all the requirements of the needed cross domain solution (CDS).



## 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)



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

## Technical Specifications

### DATA DIODE TECHNOLOGY HARDWARE

- Server-mounted custom-designed communication cards – one Send-Only, one Receive-Only

### OWL V7 COMMUNICATION CARDS

- Data diode technology OCCS, and drivers enable one-way-only data transfer at 1.25, 2.5 or 10 Gbps.

### COMMUNICATION CARD SOFTWARE

- Secure Transfer System Send/Receive drivers & Send/Receive install software

### USER APPLICATION SOFTWARE

- A wide range of Owl applications for file/directory, TCP/IP, UDP, and UNIX syslog message & SNMP TRAP one-way transfer

### COMPATIBILITY

- Dell PowerEdge

### OPERATING SYSTEMS

- RED HAT®
- LINUX®
- SE LINUX®



# 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)