



## Network Packet Transfer System NPTS

Owl Computing NPTS provides secure one-way transfer for network monitoring or sniffing. NPTS Send-only software “listens for” and processes all raw Ethernet packets on the source network, sending them across the DualDiode® one-way path. On the Receive-only server, NPTS restores the traffic to native Ethernet packet format for processing by a client IDS monitoring system.

As with all Owl DualDiode hardware-enforced one-way transfers, NPTS enables absolute assurance against data leakage and malicious behavior.

NPTS may be configured as a standalone application when matched with any Owl Communication Card types. When deployed with Owl 2500 Communication Cards, NPTS may be optionally deployed in combination with other Owl user applications. Because Owl 2500 hardware, operating at a link speed of 2.488Gbps, may be configured with discrete transfer channels, NPTS monitoring traffic may employ a single high-bandwidth channel, with remaining channels free to support other one-way transfer applications (file transfer, streaming video, syslog messages, etc.) -- all across the single fiber link.

## Network Monitoring for Security

The monitoring of network health, and of network traffic, are key tasks for many clients seeking to maintain the highest levels of network domain security. Network managers use a variety of analysis/sniffer tools to diagnose network problems, to gather & report network statistics, and to debug communications and protocols.

Domain security policies require network analysis to detect network intrusion attempts -- perhaps, even to gain information for affecting a network intrusion. Such analysis often occurs on highly secure control networks; hence, the need for hardware-enforced one-way information transfer.

## OWL COMMUNICATION CARDS

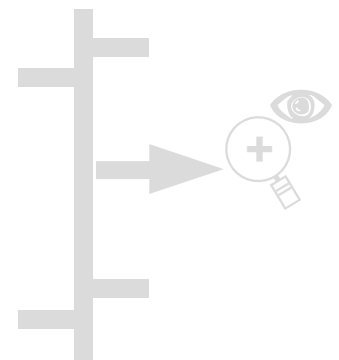


## APPLICATIONS:

- Cross-domain solutions
- Networking monitoring & reporting
- Intrusion detection support
- Communications & protocol analysis

## FEATURES:

- Drop-in deployment transparency
- Red Hat LINUX OS support
- Standalone or multiple application deployment
- UDP unicast, multicast, & broadcast flexibility
- Log file-management system
- Editable file processing scripts



SECURE. RELIABLE. FAST.



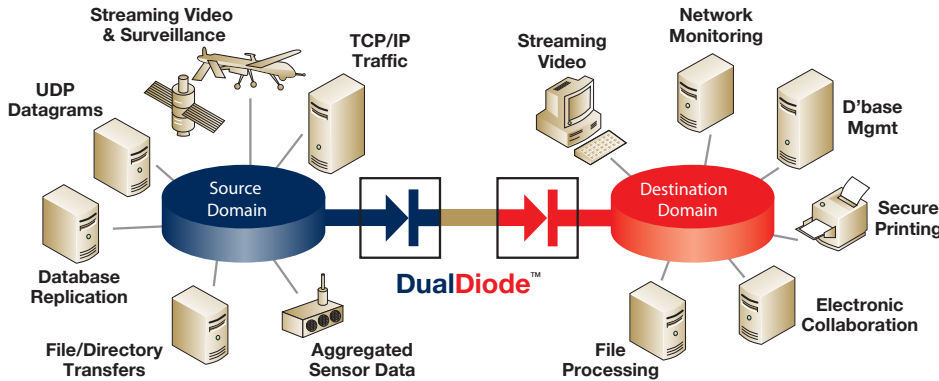
NIAP Common Criteria EAL-4 Certified\*

\* Owl 2500 cards and Owl 155 v.3 & v.4 cards, EAL-4; Owl 155 v.1 & v.2, EAL-2

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## DualDiode® Technology

A pair of Owl Communication Cards (Send-only and Receive-only), with Owl internally developed drivers, forms a Dual in-line Diode; each card is custom-manufactured to permit one-way-only data transfer. Security for the one-way transfer is enforced at both the send and receive nodes in this exclusive Owl design - neither diode requires a trusted state with the other. Application-specific software (for files, TCP packets, etc.) completes the individual Owl product offering.

Owl One-Way DualDiode Technology design securely protects the send- and receive-network domains. No information of any kind, including handshake protocols (TCP/IP, SCSI, USB, serial/parallel ports, etc.), pass from the destination computer/network back to the source computer/network. Owl's one-way transfer is a dedicated point-to-point link and requires no additional machine configuration (such as IP). This "trust-nothing" design ensures that data residing on each isolated network is fully protected.

Owl products have "Authorization-to-Operate" ATO status within many government agencies. There are over 1000 deployments Secured by Owl throughout the Department of Defense and the US Intelligence community, and the industrial control system industry.

**About Owl Computing Technologies:** a U.S.-owned & operated Small Business Owl Computing Technologies, Inc., based in Ridgefield, Connecticut, is a privately funded US company.

Owl has an exclusive licensing agreement with Sandia National Laboratories, with worldwide rights to develop and market products originally based on Sandia's patented data diode technology. Sandia National Laboratories is a U.S. National Laboratory operated by Sandia Corporation, for the U.S. Department of Energy.

Owl Computing develops and markets Secure Information Transfer Systems for files and directories, UDP- and TCP-based traffic, for multiple streaming video sessions, and other formats — please call for more information.

Visit us at [www.owlcti.com](http://www.owlcti.com)

## SPECIFICATIONS:

### DualDiode® Technology hardware

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

### Owl 155 Communication Cards

Fiber-optic multimode, 62.5/125 ST-ST  
155.52Mbps link speed  
15 MegaBytes/s user throughput

### Owl 2500 Communication Cards

Fiber-optic single mode, LC-LC  
2.488Gbps link speed  
Clear-channel 2500 – 270+ MegaBytes/s user throughput  
Channelized 2500 — supports up to 8 discrete application connections across 1 physical link; user throughput 65+ MegaBytes/s per connection

### Owl 052 RJ-45 Communication Cards

Copper cabling  
52Mbps link speed  
5 MegaBytes/s user throughput

### Owl CDS Small Form Factor

Two custom-designed communication cards – one Send-Only, one Receive-Only in PC104 form factor, each integrated with independent servers within an Owl CDSsFF chassis -- fiber optic link speed 104Mbps, with user throughput at 10 MBytes per second

### DualDiode 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 (for other platforms, contact Sales)

### Operating Systems:

RED HAT®  
LINUX® [SE LINUX®]