



Secure Network Transfer System SNTS

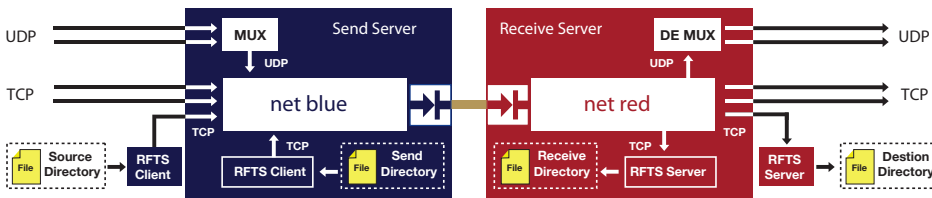
SNTS integrates several Owl Computing user-application products to deliver the concurrent one-way transfer of files, streaming video, SNMP, and syslog messages through a single installation of DualDiode® Communication Cards and related software drivers. Optimized for maximum data type variety, SNTS features include IP routing and IP filtering. It also includes Remote File Transfer Service capability.

The suite of integrated software components work together while concurrently transferring multiple dissimilar data types & protocols:

- TCP/IP packet communications
- UDP datagram communications
- MUX/DEMUX software expanding UDP support for multicast & broadcast traffic
- Remote File Transfer Service to enable file transfer via the TCP component.

SNTS does not pass IP address information across the link, for either TCP packet traffic or UDP datagrams. Source IP information is statically configured by the administrator, and mapped to an Owl channel-number in a table in the Owl Send-Only platform. In the Receive-Only platform, the corresponding channel number is mapped to the destination IP address. TCP data management controls traffic flow on the sending network domain; the receiving domain maximizes TCP traffic flow to the user destination. UDP traffic handling may be configured to enable unicast, multicast and broadcast distribution modes. SNTS provides IP filtering and static routing capabilities to secure data transfer between discrete network environments.

Owl information transfer applications and communication cards function in a wide range of operating system environments, including Windows, Solaris, and Linux. All applications support the Owl log file-management system, and the maintenance of historical information on data transfers (such as data archiving, aging, etc.).



SNTS support for datagrams, packets & files

- Absolute one-way transfer
- DualDiode® Technology
- Total network isolation/Discrete domain separation
- Trust-nothing design/No backchannel



SECURE. RELIABLE. FAST.



NIAP Common Criteria EAL-4 Certified*

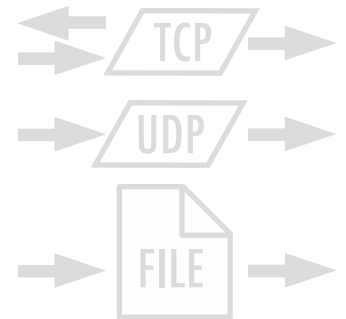
* Owl 2500 cards and Owl 155 v.3 & v.4 cards, EAL-4; Owl 155 v.1 & v.2, EAL-2

APPLICATIONS:

- Cross-domain solutions
- Single system-multiple application support
- Real-time information transfer
- Upguard / downguard operations
- Streaming video & image
- Double-firewall architecture replacement
- Secure printing

FEATURES:

- Drop-in deployment transparency
- Broad OS support
- Log file-management system
- Editable file processing scripts



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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



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 Owl-designed communication cards – one Send-Only, one Receive-Only in PC104 form factor, each integrated with independent servers within an Owl CDS_{SFF} chassis -- fiber optic link speed 104Mbps.

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, Sunfire and Sun Blade, HP Proliant (for other platforms, contact Sales)

Operating Systems:

SPARC SOLARIS® 8, 9, 10
SOLARIS® on Intel®
TRUSTED SOLARIS®
RED HAT® LINUX® [SE LINUX®]
Microsoft WINDOWS® XP
Microsoft WINDOWS® 2003