

SECURE. RELIABLE. FAST.

Owl Computing Business Differentiators

- EAL-4 Certified DualDiode Technology
- Cross Domain Solution & Accreditation Expertise
- Data Filter Integration & Management

U.S. Owned & Operated Small Business

Owl Computing, founded in 1998, is a privately owned and funded U.S. small business that develops and markets secure one-way data transfer systems, and cross-domain solutions. Owl NIAP Common Criteria EAL-4 certified products are deployed in over 1000 accredited solutions throughout the US DoD & Intelligence Communities, and to Energy & Utilities customers. From an exclusive licensing agreement with Sandia National Laboratories, Owl secured patent rights to develop products originating from Sandia's data diode technology.

Owl has since developed its own suite of hardware enforced, internetwork, cross-domain products. As user need for integrated, accreditable, security solutions becomes all the more pressing, and real-time collaborative information sharing of very large files becomes the order-of-the-day, Owl Computing is broadening its own product responses. Sandia National Laboratories is a U.S. National Laboratory operated by Sandia Corporation for the U.S. Department of Energy.

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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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**Owl Computing
Technologies®**

Cross Domain Solutions

Information Assurance

In the Enterprise Core

At the Tactical Edge



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Owl Cross Domain Solutions

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Owl Enterprise Cross Domain Solutions ECDS — with high capacity 2500 cards in channelized mode ECDS supports separate, yet concurrent availability, for user applications as wide-ranging as large file transfer, multiple high-resolution video streams and secure email transfer.

Owl Tactical Cross Domain Solutions TCDS — integrates all the elements of a source-to-destination firewall cross domain solution. In the tactical space, this certified, approved-to-connect, cross domain solution operates in a Secure Extensions Linux® “locked-down” environment.

Owl Cross Domain Solution SFF — an integrated one-way transfer solution, supporting multiple data types (up to 32 concurrent connections) and formats (up to 8 simultaneous full motion video sessions) within a compact, rack-mountable chassis.



Owl 002 Tactical One-Way Technology 002TV/002DS — miniaturized DualDiode® technology to deliver the bandwidth and speed required for tactical deployment. USB or EIA232 serial connections are currently supported, with Ethernet being evaluated. Each solution – tactical vehicle and dismounted warfighter – are currently available and configurable. Call for information.



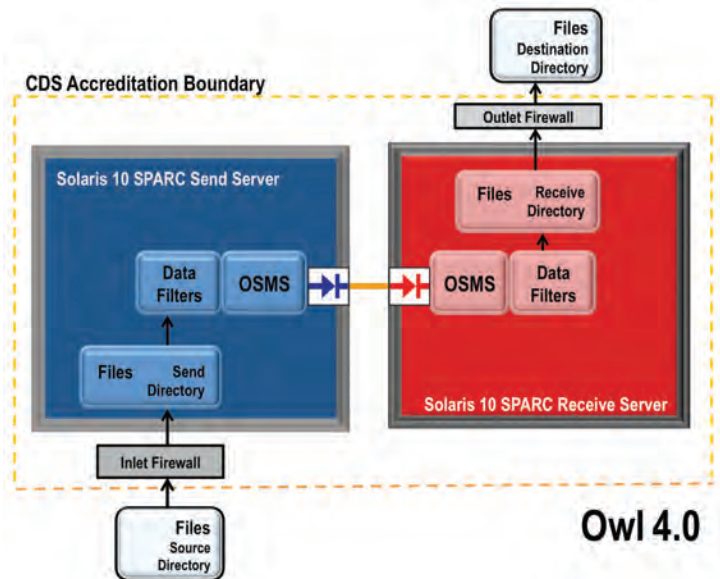
Owl 4.0 Cross Domain Solution

UCDMO Baseline Inventory 3.6.1
of solutions available for re-use

Owl 4.0 supports cross domain data flows required for file transfers across network security domains of different security classifications, in the low-to-high direction. As an entry on UCDMO Baseline 3.6.1, Owl 4.0 provides a certifiable one-way solution with a base set of capabilities appropriate for changing mission and security requirements, leading to re-use among programs that require similar capabilities.

In addition to satisfying site-specific requirements, Owl 4.0 is designed to provide a non site-specific one-way CDS architecture with a base set of security features that is certifiable, modular, and configurable.

Owl DualDiode® Technology – in this OCDS instance, Owl 155 Communication Cards with OSMS software – enforces an unconditional one-way data transfer security policy that maintains confidentiality of data on the destination domain.



Owl 4.0

Owl DualDiode Data Confidentiality

Owl Scanfile Management System OSMS — scanned, filtered transfer of file data from lower to higher security networks.

Directory/File Transfer System DFTS — secure, reliable, fast, one-way file-based information transfer.

Secure Network Transfer System SNTS — concurrent one-way transfers of files, UDP datagrams, TCP traffic, SNMP, and syslog messages, through a single installation. Includes Remote File Transfer Service RFTS.

UDP Packet Transfer System UPTS — datagram-based information transfer (e.g., streaming video) between servers on discrete networks. With MUX/DEMUX, support for unicast, multicast & broadcast traffic.

TCP Packet Transfer System TPTS — transfer of TCP/IP socket-based information. TPTS moves data streams for remote file transfers and for secure printing between network domains without passing IP addresses.

Owl Release Management System ORMS — supports reliable human review efficiently, to ensure the safe release of information from high security enclaves in a manner consistent with security policies.

DualDiode Communication Cards

Owl 2500 v6 — throughput 270Mbytes/s clear channel, or up to 8 channels; PCIe form factor.

Owl 1250 v6 — throughput 135Mbytes/s clear channel, or up to 8 channels; PCIe form factor.

Owl 155 v4 — throughput 15Mbytes/s in either PCIe or PCIx form factors.

Owl 104 v4 — throughput 10Mbytes/s in either PCIe or PCIx form factor.

Owl 052 v5 — throughput 5MBytes/s in PCIx form factor

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Network Packet Transfer System NPTS — secure one-way transfer for network monitoring or “sniffing.” NPTS “listens for” all raw Ethernet packets on the source network, typically transferring traffic to secure IDS monitoring.

Remote File Transfer Service RFTS — is an Owl application service, enabling multiple end-users to transfer files and other forms of information via TCP/IP packets to known destination, and to complement network security policies in environments where protocols other than FTP and NFS are mandated.

Remote Printing Transfer Service RPTS — provides multiple users the ability to print to known network printers across security domains via the DualDiode one-way link.

Owl VirtualScreen View Service OV2S — collects real-time screen images from monitoring computer platforms within segregated networks. OV2S delivers this information to client platform screens outside the secure area.

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Designed for Absolute Data Confidentiality

Owl one-way DualDiode® Technology design protects send - and receive-network domains from compromise. No information of any kind passes from the destination computer/network back to the source. Whether placed in data center servers, deployed in tactical command posts, or mounted in mobile vehicle, Owl DualDiode “trust-nothing” design ensure that the confidentiality of data residing on each isolated network is fully maintained.

Owl CDS Data Integrity & Data Availability

All cross domain solutions must assure the confidentiality of data, the maintenance of its integrity, and the persistence of its availability. Owl Cross Domain Solutions satisfy these demands.

Data Integrity

– File Integrity Orchestration Engine

Data integrity applies to transferring data AND to maintaining the integrity of the receiving network domain. To address CDS data transfer integrity, Owl's File Integrity Orchestration Engine **FIOE** provides a modular element to Owl Cross Domain Solutions. FIOE operates as the manager of malware/virus scanners, and other content management filters. Based on mission requirements, this includes third-party filters (Symantec®, McAfee®, ITT® PuriFile®, Xerxes), open source (ClamAV®), customized client filters, and filters developed internally by Owl. FIOE enables the client to establish security policies, to tailor filtering suites to individual CDS instances, and to modify filter schemes to meet changes in CDS usage.

Data Availability

– Secure Operating Systems – Access Controls

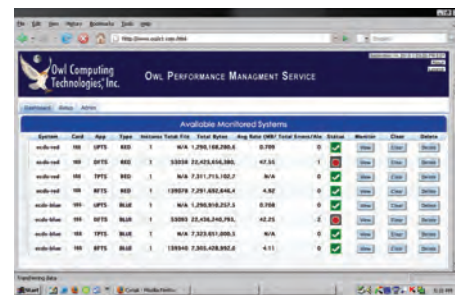
The Send and Receive servers of Owl Cross Domain Solutions are powered by independent instances of operating systems secured to appropriate levels of functional constraint. Whether Sun Solaris or Linux implementations, these constraints provide a secure configuration to host secure applications.

Certifiable Linux Integration Platform **CLIP** versions of Linux remove or disable many OS functions that are not required for CDS secure one-way transfer operation. CLIP in permissive mode also allows for the static presence of a client's particular security policy. As the need for greater security measures becomes evident, a client may apply greater levels of security rigor, employing CLIP permissive as a starting point to place additional security restrictions on the operating system & the applications running on it.

Imposing mandatory access controls MAC, and/or role-based access controls RBAC (using the Owl user-case menu system) enables clear, explicit management of user/admin activities.

Owl Performance Management Service

The Owl Performance Management Service **OPMS** enables users to manage cross domain solutions, including the 1U Owl CDS-SFF, with timely system operating data. Performance and application status may be examined nearby or remotely via a web-based interface, monitoring and displaying log file information. The **OPMS** dashboard allows privileged administrators the ability to oversee the health and effective throughput of multiple applications on a single CDS or multiple applications on multiple CDSs.



OPMS processes logs created on Send-only & Receive-only CDS platforms, other logs produced by Owl user-data proxy applications, and custom logs tailored to specific deployment requirements. Logged performance data, such as transferred file count, averages rate of transferred file bytes, total transferred bytes, are among the statistics that OPMS can display. System-related errors, and logged application errors can be processed and displayed, as well. **OPMS may be configured to generate email alerts to notify registered administrators of anomalous CDS events, speeding analysis and system maintenance – that equals effective cyber security management.**

www.owlcti.com/government/opms.html

