

Owl ScanFile Management System

OSMS is designed to support the efficient and safe transfer of data from a lower security network to a higher security network, and to operate as a network service permitting multiple, authorized users. OSMS processes document malware scanning and quarantine subsystems and efficiently reports the results – exceptions, transaction audit information, and syslog data. OSMS delivers the processed document to the DualDiode® controlled interface for transfer to the higher security network destination.

The Owl Solution

Owl ScanFile Management System (OSMS) supports secure and reliable one-way file-based transfer of data with the added benefit of scanning the file before it is transferred. Authorized users of OSMS initiate file transfers from low security networks to higher security networks. OSMS performs a malware scan on the files submitted by the users and reports the results prior to the actual transfer of the file across the DualDiode. Owl ScanFile Management System is inter-operable with all major malware scanning software products, and allows the user defined addition of other software scanning routines.

All of the Owl Data Transfer applications leverage our exclusive, Common Criteria EAL certified DualDiode Technology® to support reliable, high speed one-way transmissions. Consisting of a pair of send-only and receive-only communication cards, our patented DualDiode Technology® operates at the transport protocol layer assuring data integrity and availability at speeds ranging from 26Mbps to 10Gbps.

Features

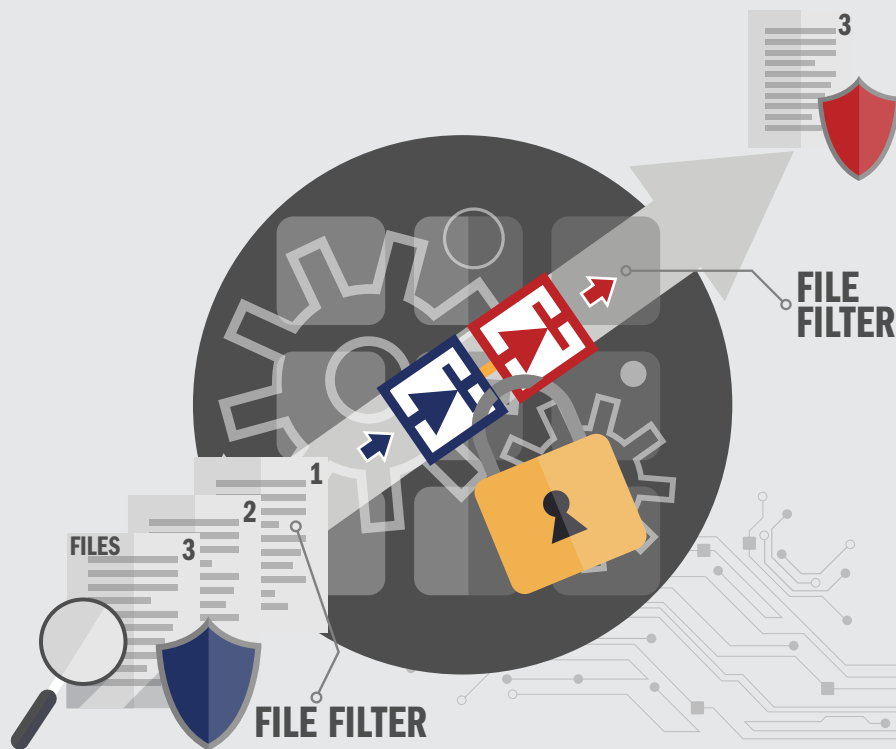
- Low-to-high security upguard
- Automated cross-domain solution
- Real-time information transfer

Benefits

- Drop-in deployment transparency
- Broad OS support
- Wide support of anti-virus/malware scanning applications
- Log file-management system
- Editable file processing scripts

DualDiode Technology®

Owl's DualDiode Technology is built around patented circuitry which only allows data to physically flow in one direction thereby preventing all network based cyber attacks. The design also includes a deep protocol break which terminates all Ethernet traffic, transfers the payload via the ATM protocol and then converts it back to Ethernet. This has the unique benefit of hiding all the IP and MAC address information from the outside world and preventing any probing of the network. This technology comes in different form factors depending on operational environment.



Hardware Specifications

DualDiode® Technology hardware:

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

Owl V4 Communication Cards:

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

Owl V6 Communication Cards:

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

Owl V7 Communication Cards:

DualDiode® Technology OCCs, and drivers enable one-way-only data transfer with upgradeable bandwidth up to 10 Gbps

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 CDSFF chassis -- fiber optic link speed 155Mbps, with user throughput at 10 MBytes per second

Owl Perimeter Defense Solution:

Two Owl-designed communication cards – one Send-Only, one Receive-Only in PC104 form factor, each integrated with independent servers within an Owl PDS chassis -- fiber optic link speed 26-155Mbps.

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:

RED HAT® LINUX® SE LINUX®
Microsoft WINDOWS® CENTOS®

About Owl

For over 16 years Owl Computing Technologies has been implementing next generation cybersecurity solutions for critical networks. Owl's DualDiode Technology®, a proprietary data diode, boasts 24 technology patents and has over 2,000 successful deployments globally across intelligence, government, military, financial services, utility, energy, and other critical infrastructure networks. Owl's hardware-enforced technology ensures secure networks and enables the reliable and robust transfer of all data types and file sizes.

