OWL Cyber Defense

DFTS

Directory File Transfer System
Data Transfer Application

KEY FEATURES

• Real-Time Information Transfer

• Upguard / Downguard Operations

• Controlled Interface

• Sneaker-Net / Walk-Net Replacement

• Efficient Big Data Access & Transfer

BENEFITS

• Drop-In Deployment Transparency

• Broad OS Support

• Log File Management System

• Editable File Processing Scripts

Directory File Transfer System

Directory File Transfer System (DFTS) application software enables secure, reliable, fast, one-way file-based information transfer. In conjunction with Owl Data Diode Communication Cards (including the Owl 10 Gbps PCIe set) and related software drivers, DFTS securely transfers files and directories unidirectionally between discrete networks, and is also used in certified and accredited cross domain solutions.

The Owl Solution

DFTS is one of Owl's single-purpose Data Transfer Applications and is integrated with the Owl Communication Card Kits. Characterized by its ability to navigate a directory file structure, DFTS performs file based one-way only data transfers; supporting files of any type, with no size limitations. It is capable of navigating file directories on the source network, identifying files that need to be transferred, transferring the files across the Owl data diode solution, replicating the original directory file structure on the destination network and populating the directory with the transferred file(s).

All of the Owl Data Transfer Applications leverage Owl's exclusive, Common Criteria EAL certified technology to support reliable, high speed one-way transmissions. Consisting of a pair of send-only and receive-only Communication Cards, Owl's patented data diode technology operates at the transport protocol layer assuring data integrity and availability at speeds ranging from 26 Mbps to 10 Gbps.

TRANSFER FILES OF ANY TYPE

DFTS transfers files of any type, with no size limitations, and replicates directory tree structure. In a low-to-high security example, file data originates anywhere on the lower-security network. It is moved into a file or subfolder within a designated directory of the user source machine, or the Owl server equipped with an Owl send-only Communication Card. DFTS examines the directory; finds a file identified for transfer, it exploits data diode technology, transferring the information from the Owl send-only platform across a fiber-optic link, to the receive-only Communication Card. The received file may then be manipulated via Owl editable scripts or customer programs for further transport to storage or an actionable user destination.

SOURCE NETWORK — DATA DIODE / FILE TRANSFER — DESTINATION NETWORK
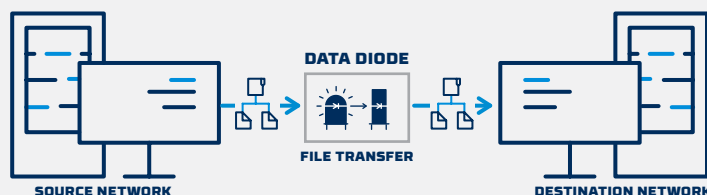
DATA DIODE TECHNOLOGY

Owl's data diode technology is built around patented circuitry which physically only allows data to flow in one direction, thereby preventing all network-based cyber attacks. The design also includes a 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 operational environment.

WARRANTY & SUPPORT

- Includes ninety (90) days of Owl Software Technical Services (Hotline Service & Support, Software Updates)

- Annual maintenance and monthly maintenance available. Contact Owl Sales for pricing.

Incorporates EAL4+ Certified Technology

COMMON CRITERIA
EAL CERTIFIED

Hardware Specifications

OWL V7 COMMUNICATION CARDS:

Data diode hardware 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 1U chassis -- fiber optic link speed 155 Mbps, with user throughput at 10 Mbps

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 1U chassis -- fiber optic link speed 26-155 Mbps

DATA DIODE COMMUNICATION CARD SOFTWARE:

Secure Transfer System
Send/Receive drivers
Send/Receive install software
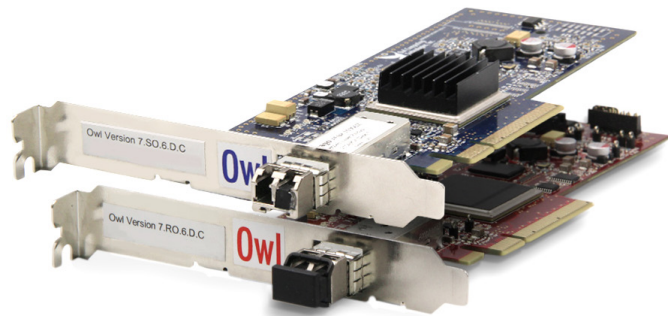
USER APPLICATION SOFTWARE:

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®

OWL V7 COMMUNICATION CARDS

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

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