

Owl Performance Management Service

The Owl Performance Management Service OPMS enables users to manage Owl cross domain and perimeter defense solutions with timely system operating data. Performance, system health and application status may be examined nearby or remotely via a web-based interface, monitoring and displaying log file information. OPMS allows privileged administrators the ability to oversee the health and effective throughput of a single security device, multiple application instances on a single system, or multiple discrete systems.

The Owl Solution

- OPMS provides centralized monitoring and management (if permitted) of one or more OPDS or OCDS DualDiode products. Performance and operating information (log files, alarms, etc.) from both the Send and Receive sides of the DualDiode(s) is sent to a web server that stores this information. Users then use their browser to log into the web server and obtain both current and historical performance information about the DualDiodes in their network.
- Customers are using OPMS globally to manage local and remote facilities where either an OPDS or OCDS solution is deployed.
- Customers typically use OPMS when they have DualDiode deployments with multiple diodes and want a consolidated view or they have remote facilities that need to be monitored and managed from a central facility.

Security Features

- Remote management of perimeter defense deployments
- Remote monitoring of perimeter defense solutions
- Web-based graphical display of log-file data and system health statistics
- File reconciliation between Send and Receive platforms
- Total log-file replication of security solution file transfers
- Automatic email and/or SMS text alerts of anomalous events
- Custom client log support

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.

OPMS Monitor

OPMS "tails" log data generated from logs within a managed solution - the data sent to an OPMS server instance mounted outside the accreditation boundary. Logged performance data, such as transferred file count, average rate of transferred file bytes, total transferred bytes, are among the statistics that OPMS can display. System health, administration content and logged application, errors can be processed and displayed, as well. OPMS may be configured to generate email and/or SMS text alerts to notify registered administrators of anomalous transfer events, speeding analysis and system maintenance and/or intervention. OPMS-Monitor continuously oversees its assigned security solutions ensuring complete visibility to system performance and activity.

With explicitly credentialed access, OPMS-Manage enables privileged administrators to perform maintenance tasks in a security solution and, within explicitly defined role limits, to modify functions within a security solution. Based on recognized and acknowledged security roles, users granted access to these management functions may affect a single security solution, multiple application instances on a single system, or multiple discrete security solutions. OPMS-Manage opens a system to management and change only through rigorous authentication.



ID	Status	System	OS	App	Type	Version	Total Files	Total Bytes	Max Rate (MB/s)	Transfer Rate
1	OK	...	Win	...	...	...	400,000,000	10,000,000,000	4.00	0
2	OK	...	Win	...	...	...	400,000,000	10,000,000,000	4.00	0
3	OK	...	Win	...	...	...	400,000,000	10,000,000,000	4.00	0
4	OK	...	Win	...	...	...	400,000,000	10,000,000,000	4.00	0
5	OK	...	Win	...	...	...	400,000,000	10,000,000,000	4.00	0
6	OK	...	Win	...	...	...	400,000,000	10,000,000,000	4.00	0
7	OK	...	Win	...	...	...	400,000,000	10,000,000,000	4.00	0
8	OK	...	Win	...	...	...	400,000,000	10,000,000,000	4.00	0

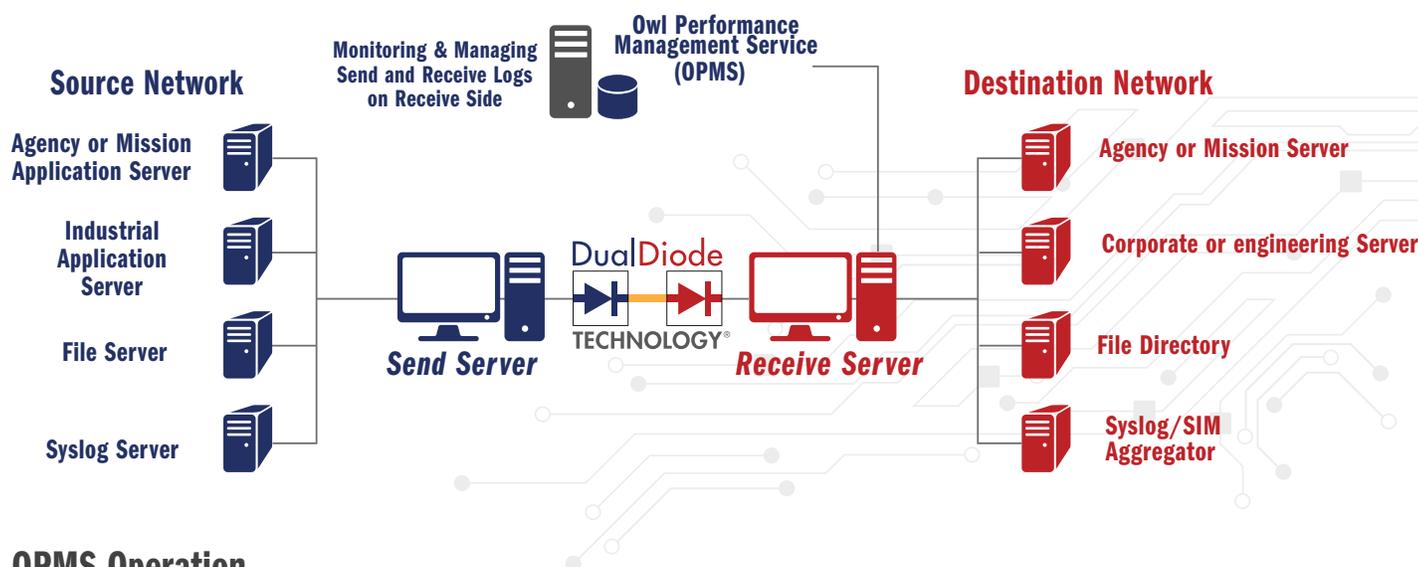
System Administration & File Reconciliation

In addition to monitoring log files, OPMS provides system-level monitoring that includes:

- Load average on Send & Receive servers
- CPU Utilization
- Total Memory (used and available)
- Disk Availability

OPMS can be configured to generate Email and/or SMS text alerts based on user defined system parameters.

File transfer instances are also tracked via a file reconciliation display. When send vs. received numerical statistics do not match an error message regarding errant files is displayed.



OPMS Operation

An OPMS Send software component set is installed for each proxy application instance on Send, Receive, or both security platforms. The Send components “read” log file entries; Send components encrypt entry content and send this content as UDP datagrams to the OPMS Receive component residing on a separate processing platform. The original log file of the security application instance has been replicated to the remote platform. OPMS Receive processes these log entries for pertinent performance data, making the processed information available to an Apache web server on the OPMS Receive platform. The Owl Display software residing on the Apache server formats the data to a graphical web interface, for viewing via standard web browsers (IE6+, Mozilla). Performance information and graphic display are refreshed at frequent intervals.

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.