

OPMS

Owl Performance Management Service

Software Module

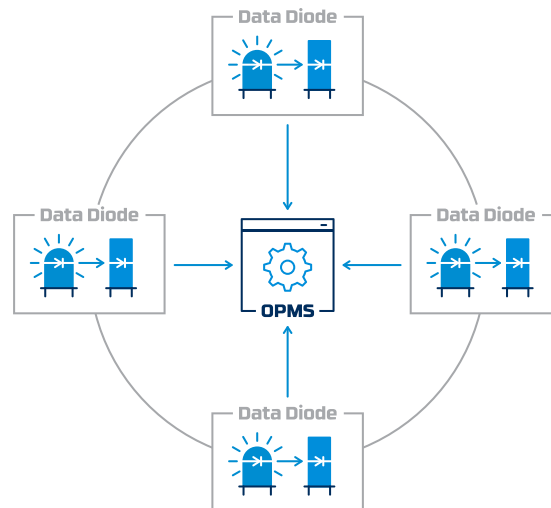
Manage Network Asset. Avoid Disruption. Maximize Performance

Owl Performance Management Service (OPMS) is software for centralized monitoring of an Owl Cyber Defense (Owl) data diode fleet. The technology allows users to maximize the efficiencies and performance by providing a centralized dashboard for visibility into log file and system status. Centralized monitoring streamlines and simplifies the health monitoring, and administrative support process for the dedicated Owl device administrator. This enables users to quickly troubleshoot and access system log files and error messages regardless of the location or size of your Owl data diode fleet.

Each Owl data diode comes OPMS-enabled for rapid deployment. Your device can be up and running and sending data quickly, removing the hassle of having to download an additional piece of software. The OPMS-enabled software runs on each side of the data diode and is able to collect statistics, encrypts it, then sends that data to the OPMS server.

Security that scales with your fleet

- Log Monitoring and Error Detection
- Detected errors are highlighted in red
- Non-sequential packet numbers are highlighted in yellow
- Support for monitoring other network applications
- Receive e-mail and text alerts



ANALYZE REPORTING DATA AND TACKLE ERRORS IN REAL-TIME

The dashboard display allows you to analyze traffic data metrics for each device in a list, table, or chart format. View performance metrics on graphical charts for Owl applications and system-level processes.

- Data captured/displayed
- Number of files transferred
- Average rate of transfer
- Total bytes transmitted
- Real-time activity metrics

Stay informed on device errors with access to instant reporting on device conditions:

- File transfer errors
- Data diode errors
- Descriptive list errors
- Total number of device errors

ONE-WAY OUT, ZERO-WAY IN

Because Owl data diode performance data is encrypted and pushed one-way out of the device, OPMS is safe to use across network boundaries. Cyber attackers cannot reach back in to the data diode through OPMS. Performance information is reported from both the source and destination sides of the data diode.

OPMS Administrator Capabilities

Perform monitoring functions related to system status, user management, and system management:

System Status: shows a complete set of statistics, including the OPMS application status, OPMS server overview, monitored application statistic summary, OPMS server statistics, and an OPMS server partitions summary

Audit: Manage details of OPMS user logins

Manage Users: allows administrators to add new users, edit user parameters, and delete users

Manage Thresholds: allows users to set thresholds for collecting system statistics (CPU usage, memory usage, etc.) and issues performance warnings

Monitor health and performance: View information related to load average, CPU utilization, total memory used/available, disk availability

Security Features

LOG FILE TRANSFER

- Encryption
- Packet validation
- Sequence numbers/validation

ROLE-BASED ACCESS CONTROL (RBAC)

An administrator can customize the capabilities of each user, including the following options:

- OPMS screens and data
- Set up and delete custom applications
- Remove systems and Owl applications from OPMS

CHOOSE HOW YOU CONFIGURE AND MONITOR YOUR SYSTEM

With OPMS, monitor the source and destination server platforms separately or all-at-once from the destination side. And with flexible application controls, you are in control of which applications are to be monitored.

VIEW STATISTICAL DATA ON WEB-BASED DASHBOARDS

Quit sifting through menus to find the right information. OPMS has web-based, graphical dashboards display log file data and system health statistics with role-based display configuration. You can also sort and filter options for a custom search.

TCP (RFTS AND SNTS) APPLICATIONS

Detailed information for each Owl device and applications running on the system including:

- Performance data over time
- CPU stats
- Memory - used and free
- Swap
- Server partitions

SYSTEM MONITORING FUNCTIONALITIES

View statistics of applications that use TCP to transfer data across the Owl device:

- IP address
- Port number
- Number of times this port has been used
- Channel session
- Total number of bytes transferred via this port
- Reset View – resets the totals on the screen (Total Files, Total Bytes, Total Errors, etc.) to zero
- Log – lists the current and archived application log files
- Errors – displays detailed error log
- Warnings – displays detailed list of all warnings and alerts for an application

UDP APPLICATIONS

View statistics of applications that use UDP to transfer data across the Owl data diode:

- Source IP address and listen port number
- Duration and start/end time for the active transfer session
- Total number of packets and bytes transferred in bpm and Mbps
- SNTS combines TCP and UDP port statistics into one view



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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