

Owl Data Diodes for GE On-Site Monitoring (OSM) Hardware-Enforced Cybersecurity for OSM Server Replication

Overview

GE On-Site Monitoring (OSM) provides businesses with access to important turbine performance data by collecting and monitoring diagnostic information, then transferring that data to a Remote Monitoring Center. Because these data transfers require bi-directional communication between the business and external networks, they are inherently insecure. Owl data diodes enable the secure one-way transfer of GE OSM data to a Remote Monitoring Center, ensuring that critical turbine assets are safe from external cyber attack.

Simple and Hardware Enforced

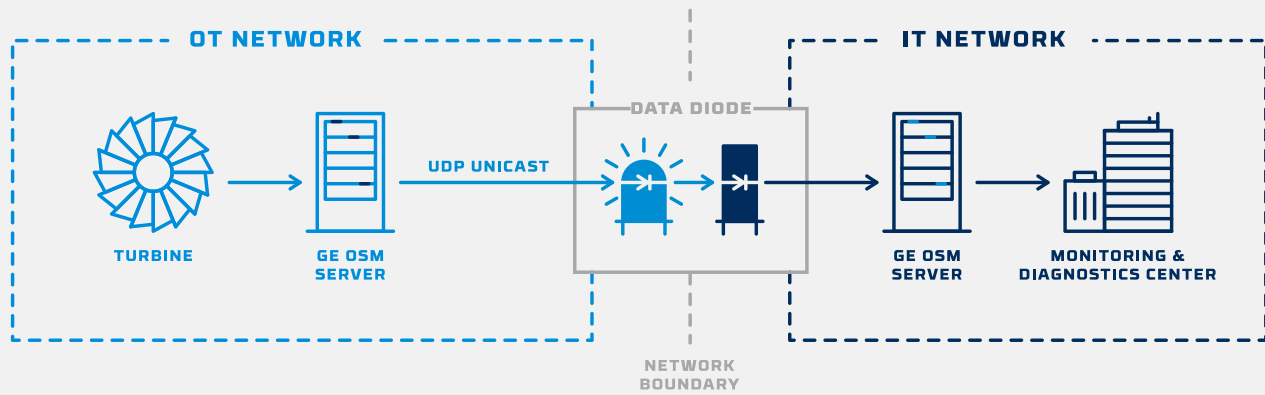
Owl's hardware-enforced data diode cybersecurity products are built from the ground up for seamless data availability and unhackable security. They are designed to provide deterministic data transfer in only one direction to segment and protect networks, devices, and other digital assets (databases, historians, SCADA, PLCs, DCS, etc.) from external threats. Owl offers the industry's most flexible line of data diode cybersecurity products. Customers can choose from the appropriate hardware platform and form factor, which includes a base software package, and then select optional add-on software modules to meet their solution needs.

Focused Functionalities for GE On-Site Monitor

Owl data diodes for GE OSM use hardware-enforced one-way transfer to securely replicate GE OSM servers. When integrated with GE OSM, Owl's data diode technology ensures that turbine performance data is available remotely for the centralized system and secures the process control network and turbines from external cyber threats.

KEY FEATURES

- Physically secured for replication of GE OSM data to outside business networks and remote locations
- Fastest throughput - Owl solutions range from 5 Mbps up to industry leading 10 Gbps
- Unhackable hardware eliminates cyber threats and attackers from tampering
- Supports high availability architecture and high bandwidth connectivity
- Compliant with NERC-CIP and NIST
- Common Criteria EAL certified
- Full functionality embodied in a single device
- Low SWaP (Size, Weight, and Power)



OWL ADVANTAGE

THE GOLD STANDARD IN DATA DIODE TECHNOLOGY



Over the last 20 years, Owl has been developing and refining data diode technologies, consistently well ahead of any other competing solution. Owl solutions feature transfer rates at up to an industry-leading 10 gigabits per second. In addition, the reliability, high bandwidth, and low latency of Owl solutions means packets never require retransmission, creating highly tuned and optimized solutions with zero data loss when operating within the specified bandwidth rate.

SOFTWARE MODULE COMPATIBILITY

- + OSIsoft PI System Transfer
- + OPC Transfer
- + Modbus
- + Screen Replication
- + SQL Database Transfer
- + Remote File Transfer (RFTS)
- + Log File Transfer
- + Owl Performance Management (OPMS)

FILE AND PROTOCOL SUPPORT

- + UDP
- + TCP/IP
- + SNMP
- + SMTP
- + FTP

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