




Owl Perimeter Defense Solution - Multi-Purpose

Those tasked with operating and protecting control networks have two challenges; Make operational data available to end users and Prevent cyber attacks against the network

Operational information is continuously being generated by digital control systems within plants and historians provide an optimal, centralized location to store a whole range of data. From operating parameters and production values to alarms and environmental conditions, practically anything happening in the plant can be recorded.

To be truly useful this data must be shared with end-users inside and outside of the plant without jeopardizing the security of the network. A number of rigorous security standards from federal standards bodies like NERC, NIST and the NRC have been put in place for this purpose. The Owl Perimeter Defense Solution-Multi-Purpose (OPDS-MP) brings these together, supporting both the security standards and the historian interfaces so that networks remain protected while delivering data to those that need it.

The Owl Solution

-  The OPDS-MP is one of Owl's patented one-way only data transfer solutions, supporting multiple data types & formats concurrently across a single compact, rack-mountable chassis. The OPDS-MP was developed to interface with different
-  Historians, using vendor specific interfaces (i.e., OSIsoft PI System, Wonderware, Rockwell Automation Factorytalk®) and standards-based interfaces like OPC and MODBUS. It offers a full suite of file transfer options -- from batch formats through
-  secure, encrypted TCP/IP.



Independent & Redundant

While other solutions also support historian data transfers, the OPDS-MP can replicate historians across network boundaries without needing to manually synchronize. It can build a new historian from scratch or synchronize with an existing historian. The OPDS-MP also supports high availability architectures with both software and hardware strategies.

EAL 4 Certified

Based on almost two decades of service for the Defense and Intelligence communities, Owl has more than proven its products can serve in the most stringent security environments. To substantiate this, the OPDS-MP has gone through 3rd party Common Criteria security evaluation and is tested to EAL level 4, meaning that it has been "methodically designed, tested and reviewed" for security assurance.

No Portable Media Needed

The best cybersecurity practices can be thwarted when portable media is used to bring software patches or other files into a control network. To address this Owl has developed the Secure Software Update Service which runs on the OPDS-MP and securely transfers data into the plant without the risk of infecting the plant with other software that may be present on a portable media device. See SSUS at OwlCTI.com for more info.

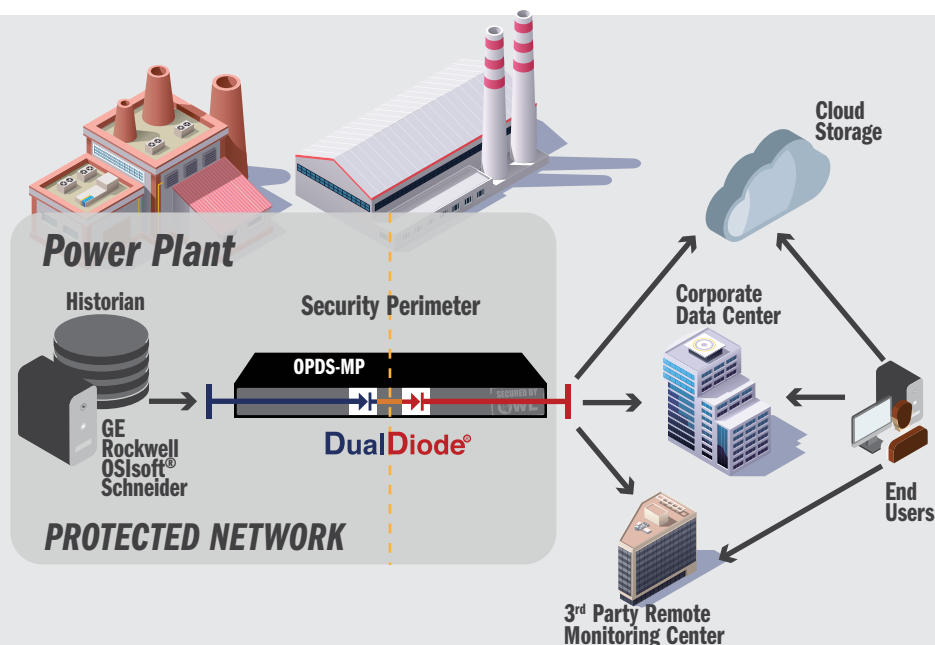
USE CASE:

Secure Historian Transfer

Seeking a way to secure the network security perimeter of the plant from external cyberattack while providing valuable Historian data to end-users outside the plant, a number of critical infrastructure operators have selected the OPDS-MP.

Busy transferring historian data out of the plant the OPDS-MP provides remote end-users of the data with a way to remotely view the data without creating cyber vulnerabilities at the plant. This includes storing data in the Cloud, in corporate data centers or in remote support centers.

Customers are moving complete historians, subsets of tags within historians and building historians from scratch. The OPDS-MP not only moves the tag data but also the "schema" of the historian allowing it to automatically build new tables and add new fields as needed to stay synchronized with the plant historian.



Product Features

The Owl single-chassis OPDS-MP family supports the concurrent transfer of files, TCP packets and UDP datagram streams. As well as the secure transfer of syslog messages and transfers using FTP and Owl's trusted file transfer service - RFTS.

Using Owl's embedded data diode based DualDiode Technology®, the OPDS-MP operates at a variety of bandwidth rates including 26, 52, 104 or 155Mbps. Depending on user bandwidth requirements, a single chassis can support up to 32 simultaneous application connections.

The OPDS-MP employs a "locked down" version of the CentOS Linux operating system which follows technical guidance from the US government-formulated Security Technical Implementation Guides (STIGs) and files can be filtered to meet file extension-type and executable checks.

Technical Specifications

Operating Conditions:

32°F to 110°F
0°C to 43.33°C
20% to 85% humidity non-condensing

Power Supply:

Two power supplies per device
Input: 100-240V AC auto-ranging
Estimated Normal operating Usage 10-15W per side
Max. 20W per side
Eu & UK power cables on request

Storage:

-40°F to 158°F
-40°C to 70°C
5% to 95% humidity non-condensing

Safety Standards:

UL60950-1, TUV EN60950-1 approved

Chassis:

Black Anodized aluminum

Mounting System:

19" (48.3cm) 1U rackmount, tabletop

Cooling System:

High-efficiency fan system with low system acoustic noise level

Approvals:

FCC Class B compliance
CE Mark
CB Certificate: 72131995
UL 60950-1:2007 R12.11
CAN/CSA-C22.2 No.60950-1-07+A1:2011
International Common Criteria Certification - EAL Certified

ISO:

Manufactured using ISO9001:2008 certified quality program

Chassis Size:

16.5" W x 1.75" H x 13" D
41.91 cm x 4.5 cm x 33 cm

Unit Weight:

7.92 lbs./3.6 kg.

MTBF:

16 years



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.



OPDS-MP (Back View)

