



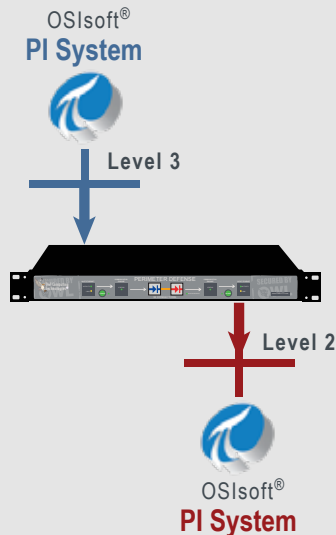
OSISOFT® PI System® Secure Transfer Support

Owl support for PI System Process Historian is an Owl-designed software connector specific for the one-way data diode transfer of OSISOFT® data across a single compact, rackmountable chassis. Individual instances of the Owl software connector may be used to support a range of PI System deployment configurations, including:

- Single data historian replication
- Distributed PI Systems
- High Availability Collectives

Secure Data Historian Replication

Integrated into an Owl OPDS Transfer System, the Owl OSISOFT PI System® software connector moves PI Data Archive records, snapshot data, and historical archive data to the lower level PI Server. Date and timestamps from the originating server are preserved; data timestamps between the two servers are maintained. The OwlPI connector auto-builds the replicate database with no synchronization required. It also auto-discovers changes to the source database – adds/deletes/changes automatically transfer in real time. Point record data and archive data are repainted to the receiving PI Server as necessary. The receiving OwlPI API node will buffer incoming data if the receiving PI Server is unavailable



FEATURES:

- Over 50,000 values transferred per second
- Transfer of point records, snapshot data, historical records, digital state tables
- Linux operating system for transfer security & reliability
- Auto-build of database configurations; auto-discovery of adds/deletes/changes
- Non-routable protocol separation of networks with built-in fiber optic isolation
- Single 1U 19-inch chassis
- Simple and speedy configuration & operation

BENEFITS:

- Dedicated PI System platform for critical application support
- Integrated platform functionality minimizes changes to legacy networks
- Minimal admin & maintenance costs reduces total cost of ownership

Easy to Use

The Owl software connector transfers OSISOFT PI System database points, snapshot data, historical records, and PI digital state tables -- all with minimal startup configuration and administrator access. If the customer selects pre-configuration (supplying Owl with a copy of point records, and a network configuration), the transfer system is truly "plug-and-play."

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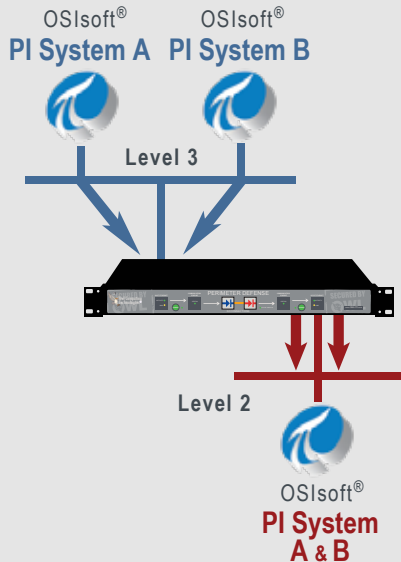
SIMPLE. RELIABLE. SECURE.



OSISOFT® PI SYSTEM® SECURE TRANSFER SUPPORT

Distributed PI System Support

Individual infrastructure sites may have their own dedicated PI Systems installed to collect and database local site values. Operators must direct this content to a centralized PI System instance outside the secure electronic perimeter. Often infrastructure sites' PI Systems employ the same naming conventions for tag names -- how to distinguish identically named values from different sites complicates secure data transfer and subsequent analysis & use.



For this deployment type, Owl transfer software for the PI System installed in a single OPDS queries the individual distributed PI Data Archives, prepending a site-specific, customer-selected addition to each discrete tag name and value. The PI System traffic is transferred across the non-routable Owl protocol break, updating the centralized server. Isolated PI System servers thus require no modifications for the transfer application, and the receiving server clearly distinguishes unique PI System values.

About Owl Computing Technologies: a U.S.-owned & operated Small Business Owl Computing Technologies, Inc., based in Ridgefield, Connecticut, is a privately funded US company.

Owl has an exclusive licensing agreement with Sandia National Laboratories, with worldwide rights to develop and market products originally based on Sandia's patented data diode technology. Sandia National Laboratories is a U.S. National Laboratory operated by Sandia Corporation, for the U.S. Department of Energy.

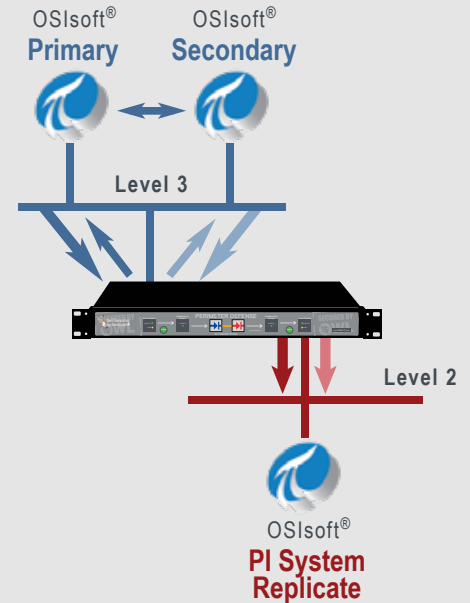
Owl Computing develops and markets Secure Information Transfer Systems for files and directories, UDP- and TCP-based traffic, for multiple streaming video sessions, and other formats — please call for more information.

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High Availability Collective Support

For operators who deploy OSISOFT PI Systems in High Availability (HA) Collective configurations, Owl offers a number of possible secure transfer solutions. In this graphic scenario, a High Availability pair of redundant primary and secondary PI System servers function in an isolated process network. Owl PI System transfer software, installed



in a single OPDS, queries both servers for database records, snapshot data, and archived data. Owl software also queries both to determine which is Primary at any one point in time. Only traffic from the identified Primary server is transferred across the Owl protocol break to the Level 2 PI System. Communications within the Owl PI System software update Primary and Secondary status.

When Primary and Secondary server status is exchanged, or when Secondary assumes Primary role (based on loss of Primary or loss of HA communications), the change is recognized in Owl software and data transfer continues. If the Level 2 server fails, Owl software retrieves archived traffic from HA primary when the Level 2 system is restored – no database content is lost.

OWL COMPUTING BUSINESS DIFFERENTIATORS

- Multiple data sources & types across a single, secure one-way system
- Compliance with NERC-CIP non-routable data requirements
- Common Criteria EAL-4 Certified DualDiode® Technology

PHYSICAL:

Width: 16.5 in.(41.91 cm)-- w/ears, 19 in. (48.26 cm.)
Height: 1.75 in. (4.45 cm.) -- 1U
Depth: 13 in. (33.02 cm.)