

Sciencetech R*Time®

Historian Support



The Owl Solution

EASY-TO-USE

The Owl software connector transfers database points, historical records -- 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."

FEATURES & BENEFITS

- OPDS linux operating system for transfer
- Security and reliability
- Non-routable protocol separation of networks with embedded data diodes
- Single 1U 19-inch chassis
- Simple, speedy configuration and operation
- Integrated platform functionality minimizes changes to legacy networks
- Minimal admin and maintenance costs reduces total cost of ownership

SCIENTECH R*TIME® SUPPORT

The OPDS platform for electronic perimeter security natively supports the secure one-way transfer of Curtiss Wright Sciencetech R*TIME data capture and archival. Sciencetech R*TIME is a real-time data acquisition, display, and man-machine interface, and control system software program. R*TIME presents real time information that is meaningful and easily accessible. R*TIME provides access to menus and displays of real time and historical data through defined icons and pull down menus. The system provides the user with the ability to construct and use color graphic displays with trends (time, x-y and bar), alarms, logs, message files, and many other tools.

OPDS Software Flexibility For Sciencetech R*Time

The Owl Perimeter Defense Solution family of NERC-CIP compliant appliances comes standard with support for secure one-way file transfer (via a number of file-handling techniques), and the transfer of TCP packet & UDP datagram streams. Operators whose process control systems present these types of formats use the native capabilities of OPDS to transfer data out to business/engineering networks securely.

In the case of Sciencetech R*Time data transfer, the one-way transfer of UDP datagram streams is the preferred method. Real-time database entries are sent to the Send-only server "side" of the OPDS 1U integrated platform. The UDP information stream is transferred via OPDS embedded DualDiode data diodes across the Owl non-routable protocol break to the OPDS Receive-only server "side," and on to a corporate network R*Time replicate, again via UDP, for analysis, review and use.

Standard OPDS Configuration

Standard units of the Owl single-chassis OPDS family are configured to support the concurrent transfer of files, TCP packets and UDP datagram streams. These OPDS products also support file transfer via Owl RFTS (trusted file movement across shared networks) and via common FTP, as well as secure transfer of syslog messages. Applications requiring specific transfer software are noted in the right column.

Files are filtered to meet file extension-type and executable checks. Standard OPDS products support the internal management of a wide variety of malware/virus filters and file content examiners – use licenses may be added to the base system.

The integrated servers within OPDS employ the CentOS Linux operating system, “locked down” from technical guidance taken from US government-formulated Security Technical Implementation Guides (STIGs) and satisfy the Center for Internet Security guidance.

Technical Specifications

OPERATING CONDITIONS:

- 32°F to +110°F
- 0°C to +43.33°C
- 5% to 90% humidity non-condensing

POWER SUPPLY:

- Input: 75-230 VAC,
- Estimated Normal operating Usage 10-16 W/side
- Max. 20W per side

STORAGE:

- -40°F to 158°F
- -40°C to 70°C
- 5% to 90% humidity non-condensing

VIBRATION:

- Vibration: (IEC 60255-21-1)
- Vibration 1g(10-500Hz) (Operational)
- Vibration 2g(10-500Hz) (Operational and Non-Operational)

CHASSIS

- Black Anodized aluminum with Locking Top

MOUNTING SYSTEM:

- (1U) Rack Mount, tabletop

NETWORK CONNECTIVITY:

- Separate Ethernet connections for network traffic and remote administration
- Physical connectors: 8P8C (RJ45)
- Supports speeds of: 10 Mbps, 26 Mbps, 52 Mbps, & 104 Mbps

COOLING SYSTEM:

- Conductive cooling through enclosure side walls with High Life Expectancy/Low Noise Fans

SHOCK:

- Shock: (IEC 60255-21-2)
- Shock 10g 11ms (Operational)
- Shock 30g 11ms (Operational and Non-Operational)

APPROVALS:

- FCC Class A compliance
CE Mark
CB Certificate: 72161659
UL 60950-1:2007 R10.14
CAN/CSA-C22.2 NO.60950-1-07+A1:2011+A2:2014
- International Common Criteria Certification - EAL Certified
- VCCI



ISO:

- Manufactured using ISO9001:2015 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.

MEAN TIME BETWEEN FAILURE (MTBF):

- 11+ years

LOCAL ADMINISTRATION:

- VGA connector for monitor
- USB connectors for keyboard and mouse



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