

Owl Talon™

Data Diode Platform

Secure, Flexible, Easy One-Way Transfers

Key Features

- Secure, hardware-enforced one-way and two-way data transfers
- Multiple, simultaneous data types & protocols on a single device
- Modern, web-based user interface
- Easier and faster to configure than ever before
- Long operational life, set-and-forget reliability
- Available in compact 1U hardware and DIN Rail form factors
- Support for multiple COTS compute platforms including Dell R660, OnLogic HX600 and OnLogic MK100
- Developed using the Microsoft Secure Development Lifecycle
- Improved security features, including enhanced SELinux enforcement with access and permission controls, a BIOS password to prevent unauthorized access and modifications, AIDE to detect unauthorized activities, and disk encryption for added protection

The Data Diode, Reinvented.

25 years ago, Owl launched the first commercialized, patented data diode to the market. Now, Owl is reinventing the data diode again.

Building on a quarter century of one-way networking expertise and customer feedback, Owl Talon™ v3.2 is the latest, revolutionized iteration of Owl's award-winning, NSA-approved data diode platform, designed for fast and easy configuration with an all new, modern user interface, unmatched interoperability, and secure, reliable operation.

To save you additional time and SWaP, Talon 3 can support multiple, simultaneous data flows and protocols on one device. With an extensible foundation for a broad range of OT and IT protocols and interfaces, Talon 3 enables all your one-way data transfer use cases.

Multiple Use Cases on One Device

Owl Talon can “do it all” with multiple, simultaneous protocols and dataflows on one device, allowing you to save space and leverage the same system as your use case needs evolve. Owl Talon currently supports TCP, File Transfer, Syslog, SMTP (email), SNMP Traps, UDP (unicast, multicast, and broadcast), OPC DA/A&E, Virtual Screen View, Owl Pi Transfer Service and NTP. In subsequent releases, Owl Talon will support other protocols and applications such as MQTT, HTTPS and more.

Unmatched Ease of Use

Featuring a modern, web-based user interface, the Owl Talon software platform is extremely easy to use. In just minutes, you can configure your data flows from source to destination, getting you up and running faster than ever before.



Owl Talon User Interface

Technical Specifications

PROTOCOLS SUPPORTED

- TCP
- UDP (unicast, multitask, broadcast)
- File Transfer (RFTS)
- Syslog
- SNMP Traps
- Virtual Screen View
- NTP
- OPC DA/A&E
- Owl Pi Transfer Service (OPTS)
- SFTP

THROUGHPUT

- Up to 10Gbps

CERTIFICATIONS

- FCC Class B Compliance
- CE mark
- CB certificate
- IEC/EN 62368-1
- CAN/CSA-C22.2 62368-1:2024
- VCCI-B
- TUV
- Based on EAL-certified technology

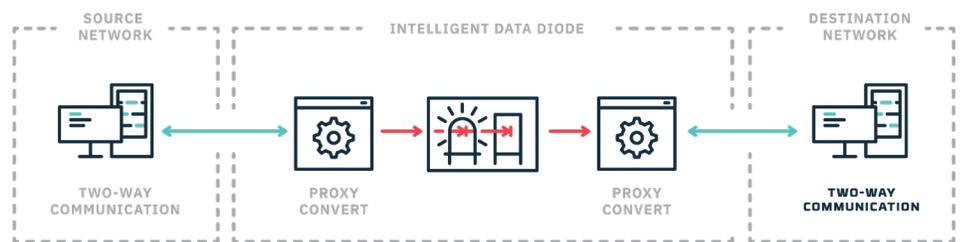
Hardware Platforms

We are excited to offer Owl Talon to new customers, as well as an upgrade for existing OPDS and Prism customers. Owl Talon is supported on COTS compute platforms, with additional options coming soon.

One-Way in a Two-Way World

One-way data transfers of two-way protocols requires meeting the expectations of a two-way world, including handshakes and acknowledgments (positive or negative), to function. The “secret sauce” of Owl Talon is in providing a secure one-way transfer while maintaining simultaneous, two-way communications with both the source network and the destination network to avoid disruption. This is accomplished through proxies that run on each side of Owl data diodes.

The source side proxy communicates with the source network acknowledging the receipt of packets before extracting the packet payload, repackaging it in a proprietary format, and sending it across the data diode. On the destination side, the destination side proxy receives the payload, builds a new packet around it using the original protocol, and sends the data on its way. In this way, the data diode achieves a secure one-way transfer in the middle of two, two-way exchanges.



If you are interested in learning more about Owl Talon and want to speak with a member of our team, please visit owlcyberdefense.com/talon/ and fill out the form to get in touch with us. We are excited to chat with you and learn more about your use cases.



Owl Cyber Defense Solutions, LLC, headquartered in Columbia, MD, leads the industry in data diode and cross-domain network cybersecurity solutions for faster, safer and smarter decision making. We create solutions tailored for high-risk sectors including the military, government and critical infrastructure. Our advanced technologies enable secure, near-instantaneous collaboration, bridging network barriers to protect critical missions. With a focus on scalability and interoperability, Owl ensures that organizations can maintain secure, reliable, and compliant communication channels against evolving cyber threats.

Visit www.owlcyberdefense.com or contact us at info@owlcyberdefense.com for more details.

