

# Owl Talon™

## Data Diode Platform

Secure, Flexible, Easy One-Way Transfers

### Key Features

- 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
- Developed using the Microsoft Secure Development Lifecycle
- High Availability configuration availability for can't fail environments.

### The Data Diode, Reinvented

Building on a quarter century of one-way networking expertise and customer feedback, Owl Talon™ v3.4.0.0. is the latest, revolutionized iteration of Owl's award-winning, rigorously tested data diode software platform, designed for fast and easy configuration with an all new, modern user interface, unmatched interoperability, and secure, reliable operation.

### Multiple Use Cases on One Device

To save additional time and SWaP, the Owl Talon Data Diode platform 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, Owl Talon enables all your one-way data transfer use cases.

The Owl Talon platform currently supports TCP, UDP (unicast, multicast, broadcast), NTP, Syslog, SMTP (email), SNMP Traps, RFTS, SFTP, OPC DA/A&E, OPC UA, Remote Screen View, AVEVA PI Transfer, Remote Desktop & MQTT.

### Advanced Security: Defense-in-Depth for Critical Networks

Owl Talon data diodes, including protocol filtering diodes, deliver industry-leading security through multi-layered safeguards designed for critical operations. TPM binding anchors cryptographic keys and security policies directly to the hardware, blocking tampering and device spoofing for trusted one-way transfers. Enhanced SELinux enforcement adds robust access and permission controls, greatly reducing the attack surface. A BIOS password protects against unauthorized access and hardware modifications, while AIDE actively monitors for and detects suspicious or unauthorized activity. Disk encryption further shields sensitive data, preventing exposure in any scenario. Combined, these features ensure uncompromising integrity and continuous protection, meeting the highest standards for mission-critical environments.

### 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.



Talon 3 User Interface

## Technical Specifications

### Protocols Supported

TCP  
UDP (unicast, multitask, broadcast)  
File Transfer (RFTS)  
Syslog  
SMTP (email)  
SFTP  
SNMP Traps  
Remote Screen View  
Remote Desktop  
NTP  
OPC DA/A&E  
AVEVA PI Transfer (OPTS)  
OPC UA  
MQTT

### Throughput

Up to 100 Gbps

### Certifications

FCC Class B Compliance  
CE mark  
CB certificate  
IEC/EN 62368-1  
CAN/CSA-C22.2 62368-1:2024  
VCCI-B  
TUV  
XDE Radium U.S. Government evaluated and listed as Protocol Filtering Diode (PFD)  
XDE Radium module has achieved Common Criteria EAL4+ certification

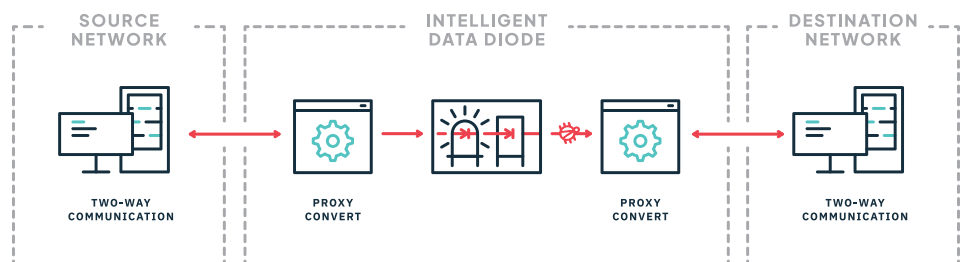
## Flexible Hardware Platform Options

We are excited to offer Owl Talon to new customers, as well as an upgrade for existing OPDS, Prism & ReCon 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/](https://www.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.

For more information on Owl, or to schedule a demo, visit [www.owlcyberdefense.com](https://www.owlcyberdefense.com).

