

Owl Talon One™

High Availability

Use Cases

- Loss of power
- Network outages
- Maintenance updates

Supported Protocols & Data Types

- TCP
- UDP (unicast, multicast, broadcast)
- NTP
- Syslog
- SMTP (email)
- SNMP Traps
- File Transfer
- OPC DA/A&E
- Remote Screen View

Maximize Uptime & Prevent Data Loss

For organizations who cannot risk downtime, a high availability solution can provide 24/7/365 protection and communications. The utilization of data diodes to enable one-way transfers of data from OT to IT is an industry proven way to ensure access to data while preventing OT environments from being attacked. A single data diode is sufficient when certain durations of downtime can be tolerated during maintenance updates or outages. However, when access to data is mission critical, high availability data diode solutions maximize uptime and ensure that data never stops flowing during a hardware or network outage. Owl's High Availability configuration of Owl Talon One ensures maximum uptime with no data loss when outages and network interruptions occur.

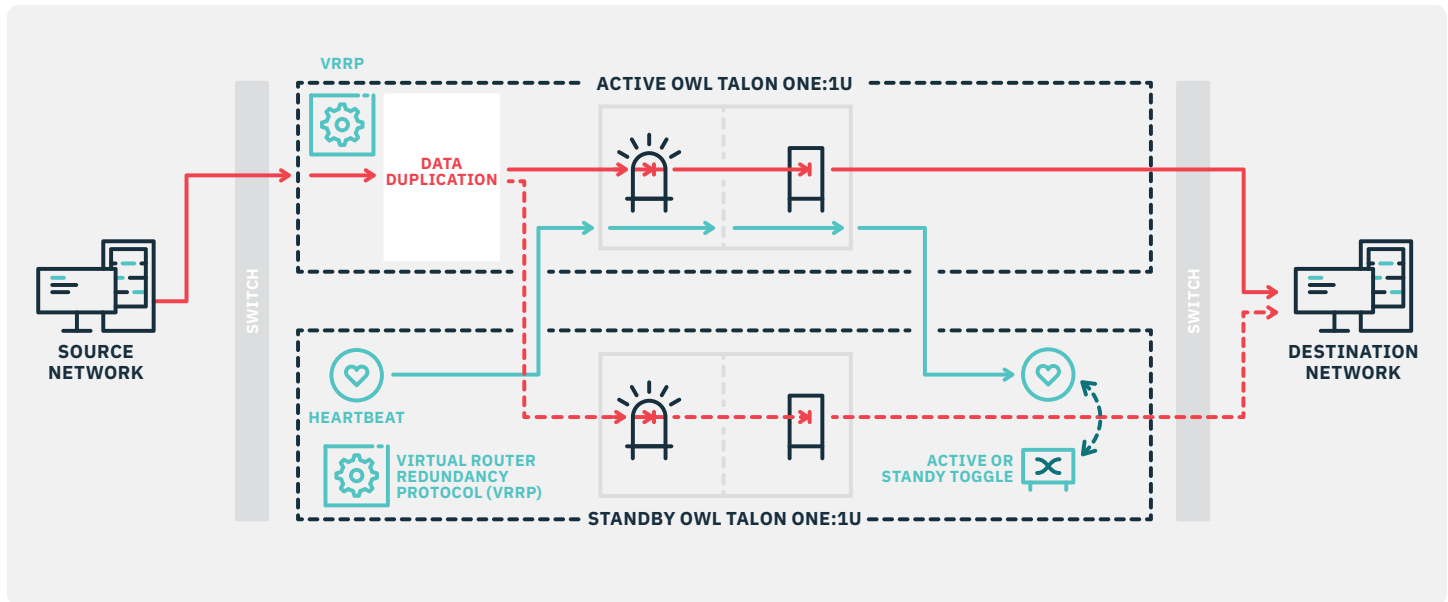
The Owl Talon One-High Availability solution (OTO-HA) consists of a pair of Owl Talon One data diodes to create a high availability solution and provides unmatched flexible protocol and datatype support, eliminating many of the challenges associated with deploying data diodes in high availability environments. The high availability failover allows customers to maintain operational data flows whether there are planned (maintenance updates) or unplanned (communication disruptions) outages.

High Availability vs Warm & Cold Standbys

High availability can mean something different to everyone. Some think of high availability as warm and cold standbys. While warm and cold standbys can be inexpensive and flexible, organizations can experience long downtimes, require manual intervention to swap cables and switch to operational mode, and can have significant data loss. However, with the OTO-HA solution, organizations can experience failover in near real time, no data loss, and no manual intervention.



How OTO:HA Works



The Owl Talon One-High Availability solution deploys a pair of Owl Talon One: 1U data diodes to create a high availability cluster. Virtual Router Redundancy Protocol (VRRP) software runs on the Source side of the each Owl Talon One: 1U. It provides for transparent failover and eliminates the single point of failure in the static routed environment. VRRP assigns an Active and Standby Node within the High Availability cluster. Network traffic passes via the Active Node. Data is duplicated and transmitted across the Active and Standby Data Diodes. UDP heartbeats manage de-duplication of data. In the event that there is an Active Node failure, the Standby Node becomes Active.



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.

