

# Owl Scowt-Compact

## Data Streaming and File Transfer Solution for Mobile Tactical Missions



### Flexible. Rugged. Reliable.

The Owl Cyber Defense Solutions (Owl) Scowt-Compact is a ruggedized solution for airborne, ground, and naval assets, as well as forward-operating bases and remote command stations that need to transmit, stream, and receive data at different security levels on protected networks. In Defense, Intelligence, and other sensitive Government operations, data streaming and file transfer dataflows are crucial components of any successful mission or organization. Whether the dataflows are for the collection of sensor output and information reports, or the dissemination of command and control, alerts, and tips - the dataflows must be protected.

### CAPABILITIES AND FUNCTIONALITIES

- Compatible with 4 dataflow types:  
Filtered files (Remote File Transfer Service (RFTS) access to TCP sockets), Non-filtered TCP streams, UDP unicast streams, and UDP multicast streams
- Common content types: Sensor data, Syslog messages, SNMP traps, Fixed format messages, Text files, Office documents
- Up to 104 Mbps speed
- Owl Remote File Transfer Service (RFTS) for enhanced security and performance connectivity

### Single Device, Multiple Missions

The Scowt-Compact can be tailored to meet the dataflow needs of a range of cross domain missions. The device's metal housing and MIL 804 connectors allows for ruggedization and ease of use, whether it be a small forward- operating base with a need to transmit logistics data or an MRAP with sensors that collect RF transmission data to send to a command center for analysis. Data remains secure as it is sent from systems and sensors that are collecting and transmitting different types of information such as video streams, position data, vehicle states, and even dismounted soldier health.

### Core Functionalities

Scowt-Compact combines the Raise-the-Bar (RTB)-ready ruggedized hardware platform and Owl's Multi-Protocol Platform (MPP) Cross Domain Solution (CDS) software platform. Owl's CDS-MPP software is designed to address RTB's One-Way Transfer (OWT) design patterns. The Owl Scowt-Compact hardware platform is conduction cooled and frame or shelf mounted. This configuration is reduced size, weight, and power (SWaP) dual-processing nodes, separated by Owl's patented hardware-enforced one-way transfer diode, that support dataflow bandwidth up to 104 Mbps for UDP and TCP content streaming and file transfers.

The Owl-Scowt Compact is a dual-node platform that includes two processing environments separated by Owl's patented hardware-enforced, one-way transfer diode. Each processing environment includes an instance of Owl's CDS-MPP software that is based on a STIG compliant, CLIP enforced EAL4+ Red Hat Enterprise Linux (RHEL) foundation. It's capable of scanning and file validation filtering for file transfer data flows and filter protocol header and protection for the highest threat environment connections.



## Key Features

- Ruggedized for harsh environments
- Compactness allows for confined spaces in mobile assets
- Low power requirement minimizes power draw

## Technical Specifications

### CHASSIS SIZE & WEIGHT

- 6.0" W x 1.66" H x 8.40 L
- 15.24cm x 4.22 cm x 21.33 cm
- 3 lbs, 1 oz / 1.4 kg.

### POWER SUPPLY

- Input: 9-36V DC
- Max. 40W

### SYSTEM FEATURES

- TPM v2.0

### MOUNTING

- Cold plate mount

### COOLING SYSTEM

- Cold plate must maintain 40°C or below

### OWL CARD

- Owl 010 card set

### CONNECTORS

- Mission critical MIL DTL connections

### LOCAL ADMINISTRATION

- VGA, 2 USB

### SECURITY

- Hardware-enforced data diode

### NETWORK CONNECTIVITY

- Separate Ethernet connections for network traffic and independent configurations
- Supports 10BASE-T, 100BASE-TX, 1000BASE-T

### OPERATING CONDITIONS

- \*Exact temperature to be determined
- 5% to 90% humidity non-condensing
- Cold plate must maintain 40 degrees Celsius or below

### VIBRATION

- Vibration: (IEC 60255-21-1)
- Vibration 2g (10-500Hz) (operational and non-operational)

### SHOCK

- Shock: (IEC 60255-21-2)
- Shock 10g 11ms (operational)
- Shock 30g 11ms (operational and non-operational)

### COMPLIANCE

- FCC Class A compliance (Expected Q2 2020)
- CE Mark CB certificate: report 31780392.001 EN 60950-1:2006 +A11:2009 A1:2009 A1:2010 + A12:2011 + A2:2013 UL 60950-1:2007 R10.14 CAN/CSA-C22.2 NO.60950-1-07+A1:2011+A2:2014 (Expected Q2 2020)
- International Common Criteria certification - EAL certified
- MIL STD R75, 704, 461, 810 (Expected Q2 2020)
- ISO
- Manufactured using ISO9001:2015 certified quality program



\* Certifications in progress

Owl Scout-Compact has unique connector cables.  
Please consult an Owl team member for details.



## 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](http://www.owlcyberdefense.com)



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