In the tactical theatre, video and other UDP-based intelligence data is often accumulated in unclassified environments (sensors, vehicles, UAVs, vessels). To reach classified-level analysts, the data must securely cross network domain boundaries. This requires a proven, high-bandwidth Cross Domain Solution (CDS) that transfers streaming full-motion video and metadata at real-time from the field to secure enclaves.

**The Owl Solution**

The OCDS-ST06 moves UDP packets containing MPEG-TS video from Unclassified to Secret network domains with minimal latency and without data loss. Tested in deployment and fully operational, the OCDS-ST06 received ATO (Authorization to Operate) on February, 2015. The OCDS-ST06 presents a configurable number of UDP inlet sockets to the source network. UDP payload content is restricted to MPEG-TS packets containing full-motion video and KLV metadata. The Owl MPEG data filters explicitly check MPEG-TS packet framing, MPEG-TS protocol, and KLV metadata conformance to MISB standards.

Available in a small form factor (SFF) variant, OCDS-ST06 is housed in a 19” 1U rack-mountable chassis. It delivers total network isolation and discrete domain separation with bandwidth ranging from 26 Mbps up to 1000 Mbps. In situations that require a smaller size, less weight, and/or a lower power draw (low SWaP), the OCDS-ST06 is an ideal cybersecurity solution.
Technical Specifications

**OPERATING CONDITIONS**
• 32°F to 110°F (0°C to 43.33°C) – 20% to 85% humidity non-condensing

**POWER SUPPLY**
• Input: 100-240V AC auto-ranging, min. 30W per side (fused at 1A at IEC connector)
• Output: 5V at 5A
• EU & UK power cables available upon request

**POWER CONSUMPTION**
• BLUE Inlet Send-only side: 20W Max / 17.6W Nominal / 5.5W Standby
• RED Outlet Receive-only side: 20W Max / 17.5W Nominal / 5.5W Standby

**STORAGE**
• -40°F to 158°F (-40°C to 70°C) – 5% to 95% humidity non-condensing

**SAFETY STANDARDS**
• UL60950-1, TUV EN60950-1 approved

**TRANSPORT TESTING**
• Random Vibration and Loose Cargo Transportation Tests – MIL-STD-810F

**CHASSIS**
• Black anodized aluminum

**CHASSIS SIZE**
• 16.5" W x 1.75" H x 13" D (41.91 cm W x 4.5 cm H x 33 cm D)

**UNIT WEIGHT**
• 7.92 lbs (3.6 kg)

**SHIPPING WEIGHT**
• 12.2 lbs (5.5 kg)

**SHIPPING SIZE**
• 18" W x 8.5" H x 15" D (45.7 cm W x 21.6 cm H x 38.1 cm D)

*Solution includes two DVD drives (with power supplies and network cables) for use with software updates and backups.*

**OCDS-ST06 IN ACTION**
UAV field assets supporting ISR activities transfer full-motion video data as UDP packets to the ground station. The Owl OCDS-ST06, installed at the ground station, takes multiple inbound UDP streams and multiplexes them into one stream for transfer across the domain boundaries to the Secret network. The proprietary data diode applies filters to the remotely-collected unclassified video and metadata, and securely streams it to analysts at the Secret enclave.