V2CDS

Voice/VTC, Full Motion Video, and Structured Data Streaming Cross Domain Solution

Key Features

→ The only Voice & Video CDS on the NCDSMO Baseline and approved for deployment to the U.S. DOD & IC

→ Enables point-to-point VoIP, VTC, FMV, and structured data streaming

→ Meets rigorous DOD & NSA "Raise the Bar" standards

→ Supports existing VoIP/VTC infrastructure

→ Includes an easy-to-use administrator GUI for system configuration

→ NSA-approved Collaboration Hub multi-domain configuration available

→ Enforces internal network (NIC) separation

→ Complies with the latest DOD & IC Risk Management Framework (RMF) and Cybersecurity policies

→ Mitigates covert data transmission with real-time filtering and audio processing

→ Provides user accountability mechanisms, including call monitoring for auditing

→ Maintains strict packet handling conformance while preventing protocol exploits

→ Implements data capture capability to audit all management and conferencing actions and results

→ Supports the latest RTB requirements for Remote Monitoring & Management

→ 2-Factor Authenticated (2FA) web-based secure console administration for Remote Management

→ Rsyslog support for Remote Monitoring

Real-time, Secure, Cross Domain Collaboration

The timely, secure sharing of critical information has never been more crucial than in today's Joint and Coalition warfighting environment. Successful missions hinge on punctual, reliable collaboration through voice-over-IP (VoIP) calling, video teleconferencing (VTC), full-motion video (FMV), and structured data streaming (XML / Binary) to enable the vital decision advantage in real-time.

The Owl Solution

V2CDS from Owl Cyber Defense delivers point-to-point voice, VTC, FMV, and structured data streaming across network security boundaries using existing infrastructure, with dedicated performance per connection. With numerous security and authentication features and an exclusive assured pipeline architecture for voice and video content filtering, V2CDS mitigates covert channels to an acceptable risk level while enabling real-time collaboration between secure or classified network domains.
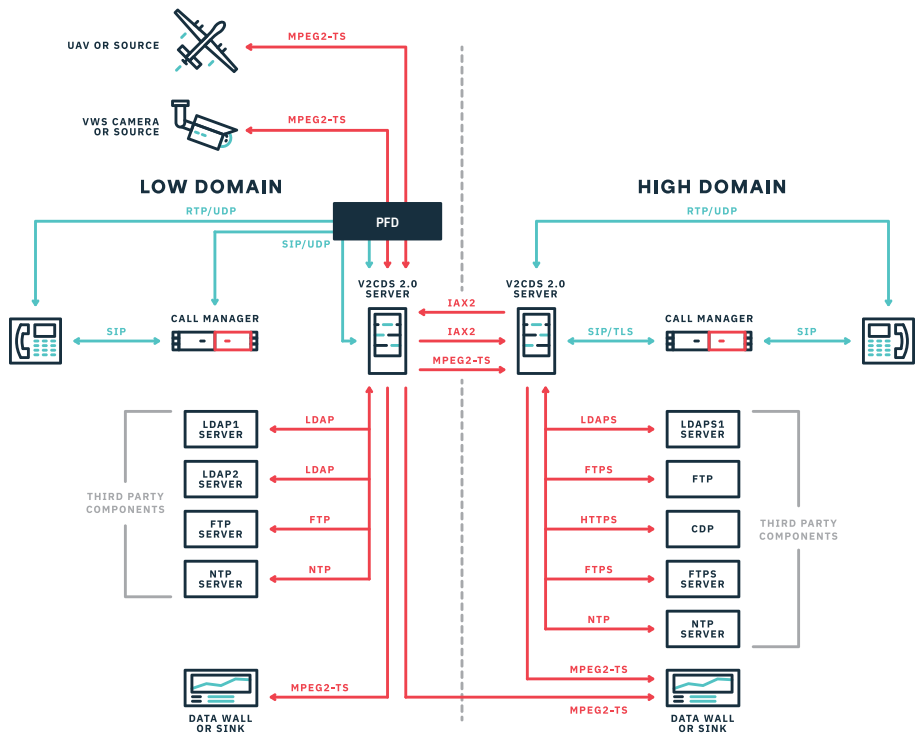
The Only Available Approved Voice & Video CDS for U.S. DOD & IC

As the only compliant Voice & Video CDS that has been accredited and approved by the U.S. Government, V2CDS is the only solution approved for deployment in the U.S. Department of Defense (DOD) and the U.S. Intelligence Community (IC). It is both SABI and TSABI certified for use in classified networks and meets the NSA's rigorous Raise the Bar (RTB) standards for cross domain solutions.

Rugged & Tactical Platform Support

→ Curtiss-Wright PacStar®

→ Cisco® Rugged

→ KLAS®

→ Trace Systems M-DRIVE®

VOIP & VTC

→ Supports existing VoIP infrastructures (PBX & endpoints)

→ V2CDS connects to existing Call Managers & MCUs as a SIP Trunk provider

→ Enables audio, face phone & point-to-point VTC calls between security domains (TS-S, S-S, S-U)

→ Use one phone to make calls to multiple high side and low side networks

→ Placing a cross-domain call is as simple as dialing a long-distance phone number

→ When initiating and receiving calls, users hear an announcement that the call is crossing domains

→ Configurable dial plan with support for high availability (HA) SIP trunks with failover and customizable IVR prompts per routing pattern

FMV

→ UDP/TCP transfer of full motion video (MPEG-2, MPEG-4, H.263, H.263v2, H.264, KLV) streams and data (ISA Protocol)

→ Integrates seamlessly with videowall controllers and networked cameras

→ Supports ISA protocol for camera discovery and control

→ Filters each frame / pixel in a video stream

→ XSLT filter for KLV modification: redaction and geofencing

→ Base 2U configuration filters up to 40 simultaneous HD 1080p FMV streams

→ The number of total streams supported scales with additional hardware

→ Multicast support between video source and sinks

→ Real-time transfer across the CDS with LBSA mandated A/V filtering & transcoding

→ Customize filter settings per source stream based on level of trust / security risk

Structured Data (XML)

→ Type accredited for XML and supports fixed format messages for structured streaming data

→ XML validation and XSLT modification

→ Assured Pipeline supports bidirectional XML with redaction

Additional support for open standards such as DFDL and NiFi technologies coming soon

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Technical Specifications

Dimensions

SSF Drives:
8.75 × 44.54 × 71. cm
3.44 × 17.54 × 28 in

LFF Drives:
8.75 × 44.54 × 74.9 cm
3.44 × 17.54 × 29.5 in

Weight
16.12 kg /35.54 lbs

Power
800W

Power Supply Voltage
100 / 277 VAC

Processors
Intel Xeon
NVIDIA (GPU)

Operational Temperature
10° to 35°C (50° to 95°F)

Storage Temperature
-40° to 70°C (-40° to 158°F)

Altitude (Unpressurized)

3,050 m (10,000 ft) - may be limited by the type and number of options installed

Maximum allowable altitude change rate: 457 m/min (1,500 ft/min)

Humidity

Maximum 90% non-condensing relative humidity

*Default Configuration: HPE DL380 gen10