OWL Cyber Defense

Filtering Capabilities
for XD Bridge™ & XD Guardian™

XD Bridge and XD Guardian provide a flexible, modular platform for deploying cross domain data transfer filters. Certified filters exist for file transfer and streaming applications. The architecture allows additional special purpose filters to be developed and deployed as requirements evolve.

File Transfer

The File Transfer Trusted Software Component (FT-TSC) enablesOwl's XD Bridge and XD Guardian data diodes to transfer files between domains with configurable file name and type filtering, antivirus scanning, and configurable filters with field level validation of complex file types. The FT-TSC supports file transfer via File Transfer Protocol (FTP), Secure FTP (SFTP), and FTPS between two security enclaves.

The FT-TSC is certified to operate uni-directional (with no acknowledgements), bi-directional with returns of ACK/NACK only, or fully bidirectional with file transfers and acknowledgements in both directions.

File types validated (several other files types supported): bmp, csv, exe, odp, odt, E-mail, glf, rsp, sh, tgx, thmx, htm, ASCI/Unicode, mht, pdf, rtl, tar, (Binary), HTML, tlf, txt, wmf, xis, Flies, Image Files (jpeg, jpg, png), xml, Office Documents (doc, docx, xls, xlsx, ppt, pptx), shape

Streaming Data

The Internet Protocol Trusted Software Component (IP-TSC) for XD Bridge and XD Guardian data diodes acts as a network gateway, or router, for IP traffic (i.e., sensor data), restricting traffic to a single direction. The XD Bridge and XD Guardian hardware strongly enforces the one-way traffic flow through the fiber diode device. The IP-TSC provides additional traffic filtering capabilities as well as the functional features needed to successfully transfer standard IP traffic in a single direction.

+ Data formats supported: MPEG2/4

CONTENT AWARE DYNAMIC ROUTING ENGINE

The Content Aware Dynamic Routing Engine (CADRE) Trusted Software Component (TSC) provides highly flexible, low-latency packet filtering capabilities for a wide variety of message protocols - without having to change the core processing of the system to add new protocols. Easily and completely configurable and customizable, the CADRE-TSC provides strong filtering and absolute hardware assurance of physical separation uni-directional transfer. The CADRE-TSC has a minimal attack surface and offline administration, resulting in reduced risk versus traditional Cross Domain data sharing solutions.

+ Packet/application level data supported: DDS

CUSTOM FILTERS

Additional custom filters can be added to the transfer capabilities described above. We can train your Linux administrators to develop these filters, or work with you to customize a solution for your requirements.

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