wedge
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ABSOLUTE REAL-TIME PROTECTION SERIES™

ADVANCED MALWARE BLOCKER™

WITH CYLANCE ARTIFICIAL INTELLIGENCE

OVERVIEW

Enterprises globally are threatened by conventional as well as advanced zero-days, and targeted attacks. These attacks increasingly evade real-time detection by fragmented anti-malware initiatives distributed across firewalls, IPSs and proxy gateways. Simultaneously, the growing volumes of threat event data from multiple diverse products have increased the complexity and difficulty in identifying and mitigating attacks. Wedge Absolute Real-time Protection™ Series (WedgeARP) – Advanced Malware Blocker (AMB) mitigates these risks by detecting and blocking all malware at the network level, in real-time, with unrivaled accuracy, performance, and scale. It also analyzes threat event data across the entire network to provide intuitive and actionable threat intelligence.

WedgeAMB

> " *Conventional security appliances require supplemental sandbox solutions to detect advanced threats after they've entered the network.*
>
> *WedgeAMB detects and blocks these threats in real-time, preventing network entry, with imperceptible latency.* "
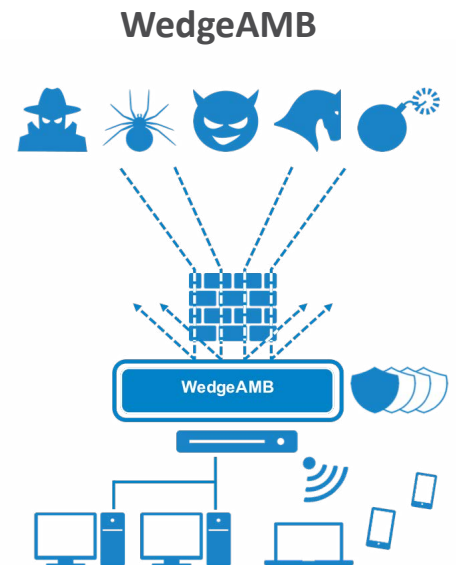
Industry Leading Inspection And Security Apps

WedgeAMB is powered by the Wedge Security Orchestrator (WedgeSO™) engine, which uses multiple patented technologies to conduct inline, real-time deep packet and deep content inspection with superior visibility and speed. The onboard orchestrator enables full content reconstruction and analysis with a series of intrusion prevention system* scans, signature-based scans, heuristic-based scans, and Cylance's patented artificial intelligence virtualized engines. The result is the industry's highest accuracy threat detection and blocking of known and unknown viruses, malware and advanced threats, with imperceptible latency, and industry leading scale.

Virtualized and Appliance Configurations For Deployment Flexibilty

WedgeAMB is natively virtualized to provide industry leading performance when deployed as a virtual machine (VM), or as a pre-configured X86-based appliance. In many cases, larger networks with many remote branch offices may use VMs at some locations and appliances at others. In all cases, WedgeIQ™ analyzes threat event data across all WedgeAMBs to provide a consolidated and actionable view of the network-wide threat landscape.

The addition of a TAP Mode configuration supports simplified demonstration and evaluation capabilities to allow testing of the product prior to full deployment.

VM

*WedgeAMB currently provides Deep Content Inspection with the Signature, Heuristics, and Artificial Intelligence anti-malware security functions for all content centric traffic such as Web, email and FTP. All other traffic types are scanned by IPS/IDS security function. IPS/IDS security scanning will be expanded to all traffic types with WedgeAMB Release 2.0 currently scheduled for availability by Q2 2017.

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Network-Wide Threat Intelligence and Analytics

The Wedge Security Orchestrator™ also includes WedgeIQ™, an onboard, virtualized threat intelligence and analytics engine. WedgeIQ rolls up network-wide visibility of packet flows and threats from all WedgeAMB systems to provide multi-dimensional threat vector visualizations indicating the origination, destination, frequency, and volume of network-wide threats over time. The added option of detailed WedgeMA™ reporting integration enhancements provide threat characterizing details on submitted grayware with clickable table entries that switch between summary statements and full event details. This visually rich and informative content renders complex data intuitive and actionable to enable security analysts to identify and take steps to mitigate the highest risk threats.

FORM FACTOR	100 MBPS (APPLIANCE) NDP-1012	1 GBPS (APPLIANCE) NDP-2200T
PERFORMANCE AND SECURITY SERVICES		
Up to Max Users	1,000 Users	10,000 Users
AMB Scanned Throughput	100 Mbps	1 Gbps
APPLIANCE SPECS	NDP-1012	NDP-2200T
CPU	1 x 6 Core Intel® Xeon® (1.9 GHz)	2 x 14 Core Intel® Xeon® (2.60 GHz)
RAM	2 DIMS x 16GB RAM - ECC DDR4-2400 SDRAM	8 DIMS x 16GB RAM - ECC DDR4-2133 (Up to 384 GB)
Dimensions	16.9" x 17.7" x 1.7"	16.9" x 21.6" x 3.2"
Weight	17.65 lbs	40.00 lbs
High Availability	YES	YES
USB Ports	USB 2.0 x 2 (Front)	USB 3.0 x 3 (2 Front, 1 Back)
Ports Provided and Available for Use	8 x 1 Gbps Copper 4 x 1 Gbps Copper / 2 Bypass 2 x 10 Gbps Fiber 1 RJ-45 Console / 1 VGA (Mgmt.)	4 x 10 Gbps Copper Bypass 4 x 10 Gbps Fiber Bypass 2 x 1 Gbps Copper (Mgmt.)
Drive Capacity	1 x 250 GB SSD	2 x 1.2 TB SSD
Optional Drive Capacity	YES	YES
AC Power Supply	300W ATX Power Supply	800W 2U 1 + 1 Redundant Power (Hot Swappable)
AC Input/Output	AC 90~264 VAC	AC 100~240 VAC
Rack Mountable Dimensions	1 U Rack Mount	2U Rack Mount
REGULATORY CERTIFICATIONS		
EMI	EN 55022 +AC; EN 61000-3-2; EN 61000-3-3; EN 55024; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-8; EN 61000-4-11	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1
Certifications	CE, FCC Class A, RoHS, UL	CE, FCC, RoHS, UL, CCC
Environment	Operating temperature 0° to 40°C (32° to 104°F); Storage temperature -20° to +75°C (-4° to 167°F); Humidity of 10 to 90% (non-condensing).	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.8°F per every 1000 ft above sea level to a maximum of 10,000 ft. No direct sunlight.

wedgeIQ

WEDGEAMB VM - SYSTEM REQUIREMENTS

100 MBPS SUPPORTED TRAFFIC			
INSTANCE	**vCPU**	**GB RAM**	**VIRTUAL DISK SIZE**
WedgeAMB	8	16	266GB*

*supports steady rate of 100 malware events per second for 30 days event storage.

1 GBPS SUPPORTED TRAFFIC			
INSTANCE	**vCPU**	**GB RAM**	**VIRTUAL DISK SIZE**
WedgeAMB	52	96	1016GB*

*supports steady rate of 1000 malware events per second for 30 days event storage.

Note: WedgeAMB VM can run on any of the following virtualization hosts:
- VMware Workstation Player
- VMware ESX[1] (Version 6.0 or later)
- Oracle VM VirtualBox
- Fusion Drive

[1]For 52 vCPUs, use ESX version 6.0 or later.

Rule of Thumb: two (2) vCPUs are equivalent to one (1) Intel® physical core that supports Hyper-Threading.

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