



AVANU®

WebMux™ Network Traffic Manager

Application Delivery Network and Global Server Load Balancing with FireEdge™ for Apps

Manage, Control, and Secure Local Network Traffic for High Availability of Applications with Geographic Disaster Recovery, Affinity Services, and Web Application Firewall (WAF)

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AVANU® designs and develops high quality enterprise products for IT network infrastructures and data centers. AVANU focuses on full-featured products that are reliably high in performance with easy user interfaces. Along with providing customer support services excellence, AVANU's products are cost-effective for all business sizes.

WebMux™ Network Traffic Manager is AVANU's flagship product. It is an enterprise-class application delivery network (ADN) and global server load balancing (GSLB) solution with its built-in FireEdge™ for Apps Web Application Firewall (WAF).

In development since 1987, WebMux features are based on the powerful 64-bit architecture platform. Using intensive algorithms, WebMux is designed to benefit sophisticated network infrastructures that require load balancing flexibility to meet and manage the most stringent network traffic demands.

As an ADN load balancer, WebMux assures high availability where it manages, controls, and securely delivers local traffic reliably to the back-end network servers where TCP/UDP IP applications and services are processed, serving your users.

A few common applications include:

- Web Services • E-Commerce • FTP Servers
- Internet gaming • POP servers • IoT device services
- Mobile device services • Call centers • Social media
- Terminal servers • Video streaming
- Internal operations - database record management, etc)

TCP/UDP IP applications from popular developers large and small are supported including Microsoft®, Cisco®, IBM®, Oracle®, Pexip®, and Unify®.

For added high availability, WebMux features a built-in intelligent Domain Name Service (DNS) adding geographic global server load balancing (GSLB) capabilities. The WebMux GSLB feature lets you easily set up disaster recovery sites and geographic affinity capabilities that determine the geographic location of clients. This improves site response lag times and overall user experience.

As an added safety net WebMux includes its FireEdge for Apps Web Application Firewall (WAF), using ModSecurity's complete Open Web Application Security Project (OWASP) Core Rule Set 3. This protects against the top 10 most dangerous Web applications security flaws.



WebMux Scalable Software and Network Hardware Appliances

Virtual WebMux for Virtualized Platforms (Software appliances)

Supported platforms include VMWare®, Citrix XENServer®, Microsoft® Hyper-V, Oracle Virtual Box®, XEN project, KVM (Kernal-based Virtual Machine).

WebMux (Network hardware appliances)

Plug-and-run deployment ease, reliable high-performance, and built to last quality with server-grade components.

WebMux Highlights

- Full-featured integrated load balancing solution
ADN, GSLB, WAF
- Proven reliable high performance with extensive load balancing features on all software and hardware appliance models
- GUI menu-driven for easy fast setup and manageability (no certified training or timely script writing required)
- Self-contained (no royalty or extra hidden costs)
- Includes a full year of product technical support; network hardware appliances include two (2) years warranty (parts and labor)



“Thank you to everyone for being persistent and hammering out solid products. We must have the most robust solution with the best throughput. I appreciate all of the effort.”

System Engineering Division Chief, United States Federal Government

“Since partnering with AVANU, we have experienced seeing how AVANU has a dedicated focus to meeting their customers' real-life requirements. Our customers are very enthusiastic about AVANU's WebMux platform.”

Vice-President Systems Integrator

Contact Information

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Contact AVANU for features not listed or a free software appliance evaluation



WebMux - Software Appliances (Virtual Computing)	AVE-100	AVE-300	AVE-500	AVE-1000
Network Layers	4-7	4-7	4-7	4-7
O/S Processor Architecture (bit)	64	64	64	64
Load Balancing Network Traffic Throughput (Internet Link-max Gbits/s less any overhead)	1.0	3.0	5.0	10.0
Servers/Farm Support (Max-Real/Virtual)	4,999	4,999	4,999	4,999
FIPS 140-2 Level 1 Compliant	Yes	Yes	Yes	Yes
TAA Compliant (Developed in USA)	Yes	Yes	Yes	Yes
Technical Support	1 Year	1 Year	1 Year	1 Year

WebMux - Network Hardware Appliances	A800	A810	A820	A840
Network Layers	4-7	4-7	4-7	4-7
O/S Processor Architecture (bit)	64	64	64	64
CPU Processor (Intel Xeon Cores)	Quad	6	8	8
Load Balancing Network Traffic Throughput (Internet Link-max Gbits/s less any overhead)	4.0	4.0	20.0	40.0
Network Type	Copper	Copper	Copper	Copper
Network Port Connector Type	RJ45	RJ45	RJ45/SPF+	RJ45/SPF+
Load Balancing Network Traffic Ports	4x 1GbE	4x 1GbE	2x 10GbE	4x 10GbE
IPMI Port	Yes	Yes	Yes	Yes
Management Port	Yes	Yes	Yes	Yes
ECC Memory (GB)	8	16	32	64
Solid State Drive (SSD)	Yes	Yes	Yes	Yes
Smart Temperature Control Fans	Yes	Yes	Yes	Yes
Power Supply (Hot-Swap, 400w)	Single/Dual	Single/Dual	Dual	Dual
Servers/Farm Support (Max-Real/Virtual)	4,999	4,999	4,999	4,999
Front LCD Panel (Quick Configuration)	Yes	Yes	Yes	Yes
Digital Intrusion Monitoring/Physical Detection	Yes	Yes	Yes	Yes
Chassis	1U	1U	1U	1U
FIPS 140-2 Level 1, 2 Compliant	Yes	Yes	Yes	Yes
TAA Compliant (Developed & Manufactured in USA)	Yes	Yes	Yes	Yes
No-charge Factory Pre-configuration	Yes	Yes	Yes	Yes
Technical Support	1 Year	1 Year	1 Year	1 Year
Hardware Warranty	2 Years	2 Years	2 Years	2 Years

WebMux Feature Highlights (Software and Network Hardware Appliance Models)

General Operations	Internet Protocol (IP) Support
Application and Services Setup/Configuration Wizards	ASP
Intuitive Web-based Graphical User Interface (GUI)	Basic Layer 2 Protocols (ie. STP, MSTP, RSTP....)
Compression-Software	DNS
HTTP Caching	FTP
REST API	HTTP
Health Checks (Applications and Services)	HTTPS (SSL/TLS; SNI-Server Name Indication)
Network	IMAP
One-armed Single Network	IPv4/IPv6
One-armed Direct Server Return (DSR)	LDAP
Two-armed Network Address Translation (NAT)	NNTP
Two-armed Transparent	NTP
Active/Active WAN	POP3
Active/Passive High Availability	RDP (Terminal Services)
Adaptive Load Balancing	SMTP
Bonding/Teaming Ports (802.3ad/LACP)	SNMP
Content Encoding (HTTP Compression)	SSH
Reverse Proxy	Streaming Media
Multiple Address and Port (MAP™)	TCP/UDP Applications and Services
Multiple Gateway Network Failover	TFTP
Multiple VLAN Trunking (IEEE 802.1Q)	Security and SSL
Load Balancing - Scheduling Algorithms	Access Control List System
HTTP to HTTPS Redirect	Authentication - LDAP, TACACS+
Least Connection, Least Connection-Persistent	Automatic Attack Detection (AAD)
Round Robin, Round Robin Persistent	Digital Monitoring/Built-in Physical Intrusion Protection (HW appliance)
Weighted Fastest Response, Weighted Fastest Response—Persistent	DoS/DDoS Protection (Flood Control™ UDP/TCP level)
Weighted Least Connection, Weighted Least Connections—Persistent	FIPS 140-2 compliant
Weighted Round Robin, Weighted Round Robin—Persistent	IP Address Filtering
Dynamic Ratio	SSL/TLS Acceleration
Fixed Priority Pre-emptive Scheduling	SSL/TLS Certificates (Third Party Support)
IP Persistence	SSL/TLS Certificate Signing Request (CSR)
Layer 7 Persistence	SSL/TLS Termination/Offloading
Global Server Load Balancing (GSLB)	SSL/TLS Encryption Strength (bits) 1024, 2048, 4096, 8192
Geographic Affinity	TCP Protocols Support
Site to Site Failover	Web Application Firewall (FireEdge™ for Apps WAF)

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