



# AVANU® WEBMUX™ NETWORK TRAFFIC MANAGER

*It Is All About the User Experience on Your Network and  
Keeping Everyone Connected SM*



**Layers 4-7 Load Balancing Solution**  
High Performance • Reliable • Plug-and-Run  
Customer-centric Design • Affordable

WebMux the affordable 64-bit strength full-featured plug-and-run load balancing solution for managing, controlling, and securing local network Layers 4-7 traffic

The WebMux Network Traffic Manager is a high capacity and full-featured product that meets the most demanding network traffic load balancing performance needs for an extensive range of TCP and UDP Internet protocol (IP) based applications and services. In 2005, Microsoft® chose WebMux as one of the first three hardware load balancers (HLB) to support its unified communications (UC) Live Communications Server platform (today's Skype® for Business Server 2015), because of WebMux's excellent features, performance, reliability, and affordability. WebMux has evolved providing load balancing functions to many popular applications from other world-class companies including Cisco®, IBM®, and Oracle®. Popular applications and services include Lync® Server, Exchange® Server, SharePoint® Server, Xbox® Live Games Server, Internet Information Services (IIS) for Windows® Server, WebLogic®, WebSphere®, Unified Communications services (unified messaging, IM presence, team collaboration, audio/web/video conferencing, mobility, and VoIP), databases, FTP, POP, terminal servers, and web servers to name a few.

WebMux load balancing features are developed on the powerful 64-bit processor platform using intensive algorithms that provide the high capacity, reliability, and availability to manage, control, and secure local network Layers 4-7 traffic. AVANU adds value by being customer-centric by placing customers at the center of the product design, from the standpoint of the user's interface, features, and customer support. The WebMux setup and configuration wizards remove the need for any scripting and make the deployment of WebMux quick and easy.

The different WebMux models offer performance scalability supporting gigabit to 10-gigabit Ethernet interfaces and come with a 2-year product warranty (parts and labor) with 1-year product technical support and firmware updates.

WebMux Network Traffic Manager, the affordable full-featured and high capacity performing solution that supports your demanding network traffic load balancing requirements.

### Power of Performance

64-bit processing platform (removes memory performance limitations found with 32-bit platform processing)

Up to 16-core processors for highly-efficient threaded operations

High throughput performance

Model A600X - up to 20GB (10GbE)

Models A500X/A500XD - up to 3.8GB

Model A400X/A400XD - up to 1.7GB

### Extensive Features (Included in all WebMux models)

Four load balancing operation modes

One-Armed Single Network

One-Armed Direct Server Return/DSR

Two-Armed Network Address Translation/NAT

Two-Armed Transparent

Full-range load balancing scheduling methods

Least connections, least connections-persistent, round robin, round robin-persistent, weighted fastest response, weighted fastest response-persistent, weighted least connection, weighted least connections-persistent, weighted round robin, weighted round robin-persistent

Robust security

Denial of Service (DoS) & Distributed Denial of Service (DDoS) protection, TCP/SYN protection, Flood Control® cybercrime protection developed for the Department of Defense provided services (additional IP level protection for DDoS attacks), IPv4 to IPv6 translations (supports IPv6 client requests to IPv4 servers), TCP SYN protection, HTTPS/SSH management, up to 8192-bit TLS/SSL encryption strength, TACACS+ and LDAP authentication, and Payment Card Industry/PCI compliant)

4,999 servers (real or virtual) supported

### Reliability

High grade server components

Redundant hot-swap power supplies (supported on all models)

80 Plus Gold efficiency rated power supply

Pulse-width modulation (PWM) smart cooling fans (high efficiency)

Enhanced dual-boot feature

### Ease of Use and Flexibility

True plug-and-run installation with AVANU's no cost pre-configuration service option

Easy front-panel LCD and GUI with intuitive setup and configuration wizards for popular applications and services

Dedicated out-of-band and in-band management including remote power-on/power-off (A500X, A500XD, and A600X)

SNMP and SMTP email notifications/alerts

Trouble-free high performance and high availability

Secure management

Low maintenance

### High Return on Investment

Full extensive load balancing features on all models

Self-contained (no royalty or extra hidden costs)

Save on costly manpower hours to write scripts, configure, manage, and maintain

No additional maintenance contract required with purchase

(WebMux comes with 2 full years product warranty-parts and labor and a full year of new software feature updates and fixes with product technical support)



How does WebMux compare?	AVANU	Vendor A	Vendor B
Processing platform	64-bit	64-bit	64-bit
CPU processors (up to)	16	12	Dual
Free Pre-configuration (plug-and-run)	Yes	No	No
GUI with setup and configuration wizards	Yes	No	No
Scripting required (Costly manpower \$)	No	Yes	Yes
Product warranty (parts & labor)	2 year	1 year	1 year
New software features updates & fixes	1 year	90 days	90 days
Product technical support	1 year	90 days	90 days
Total Cost of Ownership (TCO)	\$	\$\$\$	\$\$\$

Other common names for network traffic management products include load balancer (LB), hardware load balancer (HLB), network load balancer (NLB), local traffic manager (LTM), and application delivery controller (ADC).

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	WebMux A400X	WebMux A400XD	WebMux A500X	WebMux A500XD	WebMux A600X
Hardware Warranty	2 year	2 year	2 year	2 year	2 year
Software Updates	1 year	1 year	1 year	1 year	1 year
Product Technical Support	1 year	1 year	1 year	1 year	1 year
Network Layer	4-7	4-7	4-7	4-7	4-7
O/S Procesor (bit)	64	64	64	64	64
Internet Link Throughput (Max Gbits/s)	1.7	1.7	3.8	3.8	20.0
Connections (Simultaneous/Max)	3.8 Mil	3.8 Mil	7.5 Mil	7.5 Mil	15.8 Mil
Chassis Form Factor	1U	1U	1U	1U	1U
CPU Processor (# Cores)	Dual	Dual	8	8	16
Memory (GB)	4	4	8 (ECC)	8 (ECC)	16 (ECC)
Storage	SSD	SSD	SSD	SSD	SSD
Power Supply (watts)	Single 400w	Dual 400w	Single 400w	Dual 400w	Dual 400w
Hot-swap Power Supply	Dual Option	.	Dual Option	.	.
Smart Temperature Control Fans	.	.	.	.	.
Management Port	.	.	.	.	.
IPMI Port	.	.	.	.	.
Servers/Farms Supported (Max)	5,000	5,000	5,000	5,000	5,000
Virtual Clusters	.	.	.	.	.
<b>Operations and Load Balancing</b>					
One-Armed Single Network	.	.	.	.	.
One-Armed Direct Server Return (DSR)	.	.	.	.	.
Two-Armed Network Address Translation (NAT)	.	.	.	.	.
Two-Armed Transparent	.	.	.	.	.
Active/Passive redundant operation	.	.	.	.	.
Application GUI set up	.	.	.	.	.
Application health checking	.	.	.	.	.
Web-based GUI	.	.	.	.	.
Adaptive Balancing	.	.	.	.	.
Bonding/Teaming Ports (802.3ad/LACP)	.	.	.	.	.
Content encoding (HTTP compression)	.	.	.	.	.
Integrated SSL ASIC	.	.	.	.	.
Link Interface Bonding	.	.	.	.	.
Reverse Proxy	.	.	.	.	.
Multiple Gateway Network Failover	.	.	.	.	.
SSL Termination/Offloading	.	.	.	.	.
Multiple VLAN Trunking (IEEE 802.1Q)	.	.	.	.	.
<b>Network Topologies</b>					
Direct Server Return (DSR)	.	.	.	.	.
Full-NAT	.	.	.	.	.
Half-NAT	.	.	.	.	.
<b>IP Support</b>					
ASP	.	.	.	.	.
Basic Layer 2 Protocols (ie. STP, MSTP, RSTP...)	.	.	.	.	.
DNS	.	.	.	.	.
FTP	.	.	.	.	.
HTTP, HTTPS (SSL)	.	.	.	.	.
IMAP	.	.	.	.	.
LDAP	.	.	.	.	.
NNTP	.	.	.	.	.
POP3	.	.	.	.	.
RADIUS	.	.	.	.	.
RDP (Terminal Services)	.	.	.	.	.
SMTP	.	.	.	.	.
SNMP	.	.	.	.	.
SSH	.	.	.	.	.
Streaming media	.	.	.	.	.
TCP/UDP based services	.	.	.	.	.
TFTP	.	.	.	.	.
<b>IP Address Families</b>					
IPv4 and IPv6	.	.	.	.	.
<b>Scheduling Algorithms</b>					
Least Connection	.	.	.	.	.
Least connections-persistent	.	.	.	.	.
Round-robin	.	.	.	.	.
Round-robin persistent	.	.	.	.	.
Shortest Remaining Time	.	.	.	.	.
Weighted fastest response	.	.	.	.	.
Weighted fastest response—persistent	.	.	.	.	.
Weighted Least Connection	.	.	.	.	.
Weighted least connections—persistent	.	.	.	.	.
Weighted round robin	.	.	.	.	.
Weighted round robin—persistent	.	.	.	.	.
<b>Security</b>					
Access Control List System	.	.	.	.	.
Authentication - LDAP, TACACS+	.	.	.	.	.
DDoS Mitigation	.	.	.	.	.
DoS Protection	.	.	.	.	.
IP Address Filtering	.	.	.	.	.
SSL TPS 1024, 2048, 4096, 8192	.	.	.	.	.
SSL (FIPS 140-2 Level 1)	.	.	.	.	.
<b>SSL Support</b>					
SSL Acceleration	.	.	.	.	.
SSL Certificate Signing Request (CSR)	.	.	.	.	.
Support for TCP Protocols	.	.	.	.	.
Support for Third Party Certificates	.	.	.	.	.