

WebMux™ Network Traffic Manager

Manage, Control, and Secure Local Network Traffic
for High Availability of Applications and Services

It is all about the user experience on your network
and keeping everyone connectedSM



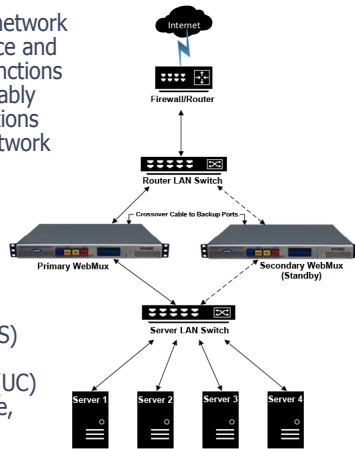
Enterprise-class Application Delivery Load Balancing Solution for Layers 4-7 TCP/UDP IP Traffic
Quick to Deploy • Easy to Manage • Reliable High Performance • Fantastic Value • Affordable

We live in an environment where connectivity and availability expectations are very high. The Internet allows us to research vast amounts of information, provides quick and convenient shopping, and lets people collaborate and stay connected in many different ways. What would it mean if your internal organization or customers lose or cannot connect to your network back end servers where the applications are servicing their needs? Whether it is connecting to your web site or accessing internal accounting records, the frustration levels will escalate. This is where AVANU's WebMux Network Traffic Manager plays a key role in your network to prevent situations like these.

AVANU's WebMux Network Traffic Manager is an affordable high performing enterprise-class application delivery load balancing solution that is designed to be easy to configure, quick to deploy, and simple to maintain. WebMux is available as network hardware appliances with ease of plug-and-run deployment and virtual appliances for cloud computing environments.

WebMux plays an important role in the network infrastructure to assure peak performance and high availability of network traffic. Its functions are to manage, deliver securely, and reliably local data traffic for TCP/UDP IP applications and services to and from the internal network of servers/server farms.

Popular TCP/UDP IP applications and services support include but not limited to are Skype® for Business, Lync® Server, Exchange® Server, SharePoint® Server, Xbox® Live Games Server, Internet Information Services (IIS) for Windows® Server, WebLogic®, WebSphere®, Unified Communications (UC) 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.



Fast and Easy Setup Options

Robust Load Balancing Features
(Full-range operation modes and scheduling methods)

Flexibility and Reliability



Virtual WebMux Appliances
Cloud computing network environments

WebMux Appliance Reliability



- High capacity with up to 18-core CPU processing (Speed and power)
- Built to last solid-state design 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)

High Return on Investment



Delivers more performance value at less cost for a high return on investment
Leverages existing network investments
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 (Appliance models come with 2-years product warranty-parts and labor with 1-year product support; Virtual WebMux Software Editions come with a full year product support)

How Does WebMux Compare?

	AVANU	Vendor A	Vendor B
Processor platform (64-bit)	Yes	Yes	Yes
Appliance CPU processors (up to)	18	12	Dual
Factory pre-configuration	Yes	No	No
Intuitive GUI interface	Yes	No	No
Certifications required	No	Yes	Yes
Appliance product warranty (HW)	2 years	1 year	1 year
Appliance firmware updates (HW)	1 year	90 days	90 days
Product Technical Support	1 year	90 days	90 days



"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 new WebMux platform." Vice-President Systems Integrator

Other commonly used terms for Network Traffic Manager (NTM) include Application Delivery Controller (ADC), Load Balancer (LB), Hardware Load Balancer (HLB), Network Load Balancer (NLB), Server Load Balancer (SLB), and Local Traffic Manager (LTM).

Contact Us Today!

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WebMux™ Security

NAT/SNAT
Flood Control®
Smart DDoS Protection
TACACS+/LDAP Authentication
Multiple Address & Port Mapping

IPV6 to IPV4
FIPS 140-2
PCI DSS Compliant
TCP SYN Protection
HTTPS/SSH Management
8192-bit TLS/SSL Encryption

Contact AVANU for features not listed or to request a demonstration

WebMux - Virtual Appliance	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
Internet Link Throughput (Max Gbits/s less Ethernet Overhead)	1.0	3.0	5.0	10.0
Servers/Farm Support (Max-Real/Virtual)	4,999	4,999	4,999	4,999
Technical Support	1 Year	1 Year	1 Year	1 Year
FIPS-2 Level 1 Compliant	Yes	Yes	Yes	Yes
TAA Compliant (Developed in USA)	Yes	Yes	Yes	Yes

WebMux - Network Hardware Appliance	A425	A525	A625	A725	A825
Network Layers	4-7	4-7	4-7	4-7	4-7
O/S Processor Architecture (bit)	64	64	64	64	64
Internet Link Throughput (Max Gbits/s less Ethernet Overhead)	4.0	4.0	40.0	50.0	80.0
CPU Processor (# Cores)	Quad	8	10	14	18
ECC Memory (GB)	8	16	32	64	128
Network Type (Options)	Copper	Copper/Fiber	Copper/Fiber	Fiber	Fiber
Network Connector Type (Port)	RJ45	RJ45/SPF+	RJ45/SPF+	SPF+	SPF+
IPMI Port	Yes	Yes	Yes	Yes	Yes
Management Port	Yes	Yes	Yes	Yes	Yes
Solid State Drive (SSD)	Yes	Yes	Yes	Yes	Yes
Smart Temperature Control Fans	Yes	Yes	Yes	Yes	Yes
Power Supply (Hot-Swap, 400w)	Single/Dual	Single/Dual	Dual	Dual	Dual
Servers/Farm Support (Max-Real/Virtual)	4,999	4,999	4,999	4,999	4,999
Front LCD Panel (Quick Configuration)	Yes	Yes	Yes	Yes	Yes
Chassis	1U	1U	1U	1U	1U
Hardware Warranty	2 Years	2 Years	2 Years	2 Years	2 Years
Technical Support	1 Year	1 Year	1 Year	1 Year	1 Year
FIPS-2 Level 2 Compliant	Yes	Yes	Yes	Yes	Yes
TAA Compliant (Developed & Manufactured in USA)	Yes	Yes	Yes	Yes	Yes

WebMux Feature Highlights (Network Hardware and Virtual Appliance Models)

General Operations

Application and Services Setup/Configuration Wizards
Intuitive Web-based Graphical User Interface (GUI)
Compression-Software
HTTP Caching
Health Checks (Applications and Services)
Network
One-armed Single Network
One-armed Direct Server Return (DSR)
Two-armed Network Address Translation (NAT)
Two-armed Transparent
Active/Active WAN
Active/Passive High Availability
Adaptive Load Balancing
Bonding/Teaming Ports (802.3ad/LACP)
Content Encoding (HTTP Compression)
Reverse Proxy
Multiple Address and Port (MAP™)
Multiple Gateway Network Failover
Multiple VLAN Trunking (IEEE 802.1Q)

Load Balancing - Scheduling Algorithms

HTTP to HTTPS Redirect
Least Connection, Least Connection-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
Dynamic Ratio
Fixed Priority Pre-emptive Scheduling
IP Persistence
Layer 7 Persistence

Internet Protocol (IP) Support

ASP
Basic Layer 2 Protocols (ie. STP, MSTP, RSTP...)
DNS
FTP
HTTP
HTTPS (SSL/TLS; SNI-Server Name Indication)
IMAP
IPv4/IPv6
LDAP
NNTP
POP3
Radius
RDP (Terminal Services)
SMTP
SNMP
SSH
Streaming Media
TCP/UDP Applications and Services
TFTP
Security and SSL
Access Control List System
Authentication - LDAP, TACACS+
Automatic Attack Detection (AAD)
DoS/DDos Protection (Flood Control™ UDP/TCP level)
IP Address Filtering
SSL (FIPS 140-2 compliant)
SSL Acceleration
SSL Certificates (Third Party Support)
SSL Certificate Signing Request (CSR)
SSL Termination/Offloading
SSL Encryption Strength (bits) 1024, 2048, 4096, 8192
TCP Protocols Support

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The Application Delivery Load Balancer Market Supercharge Your Network to Supercharge Your Bottom Line

Your company's network is indispensable, whether it serves internal operations or external customers and prospects. Everyone's livelihood depends on a reliable and secured network, so could it make good business sense to change your network?



To decide, it is vital to ask yourself if your network always perform at its full potential even during peak traffic times, providing maximum service and availability for both your organization and your customers. If not, the hidden costs are enormous. Employees may take longer to do their work. Existing and potential customers may lose patience and move to your competitors. These hidden cost dangers are easy to overlook, but could be dramatically reduced by a wise network change.

One high payoff network change is to invest in a network server load balancer commonly known as an Application Delivery Controller (ADC). A load balancer/ADC will control such costs by securely delivering and reliably directing local data traffic for TCP or UDP applications and services to and from your internal network of servers. As AVANU says, "It is all about the user experience on your network and keeping everyone connected."

There are many choices in load balancers/ADCs. How do you pick one wisely, so its cost doesn't eat up these saving? For any load balancer/ADC you may consider, ask yourself questions such as these:

- What is its out-the-door price?
- Do I need certification and training to install it myself?
- Must I hire certified personnel to do the configuration and installation? How much does this cost in time and money?
- Is it easy to maintain without having certified or trained personnel?
- Does the initial price include product configuration?
- Will the product continue to meet my future requirements as my network evolves without paying extra for "add-on" features?
- How much does the manufacturer charge for new product features?
- How much does annual support and product registration cost?
- Are there annual royalty fees?

Some considerations are harder to quantify in monetary terms:

- How good is its quality of service, both before and after purchase?
- How reliable is it?
- How long has it been on the market?

What about products with multiple functions that integrate load balancing with other services?

- Are there hidden unnecessary costs for the load balancer/ADC configuration?
- How fast can load balancing function be up and running in the network?
- Do all product functions provide optimal performance for the network?
- If one function of such a product fails, does it become a single point of failure for all its functions?
- Will you pay more for the annual service and support because of a product's multiple functions?

After you assess possibilities for load balancing your network, it will become very clear that the affordable enterprise-class WebMux Network Traffic Manager is the right answer to saving money with its quick and easy deployment of an optimal, high performing, and highly secured local network. WebMux scalable platforms include hardware appliances (Plug-and-Run) or Virtual appliances for Cloud computing network environments.



It is all about the user experience on your network and keeping everyone connectedsm

Quick to Deploy • Easy to Manage • Reliable High Performance • Fantastic Value • Affordable
Excellence in Customer Support Services

AVANU WebMux = Bottom Line Money Savings (Product cost, time, labor, maintenance)
offering more performance value for a high return on investment