AVANU®

CAI Networks

WebMux™ 690PG Load Balancer
Designed for Enterprise Environments that Demand High Level Load Balancing Performance

WebMux network appliances are known for their reliability and rich feature set in the server load balancing market to fit a wide range of applications at an affordable price point. The 690PG model addresses the higher traffic demands of enterprise size organizations such as in the finance, healthcare, manufacturing, services, Payment Card Industry (PCI), government and education industry. WebMux load balancers are ideal in managing traffic for applications such as Microsoft® Office® Live Communications Server 2007 R2, Lync™ Server, SharePoint®, Office Exchange Server 2010, Oracle® Application Server or traffic intensive web sites, video/voice streaming or e-commerce related processes.

WebMux requires only one real IP address with no limit on how many IP addresses can be used, is IPv6 ready, supports multiple VLAN/subnets, multi-languages for those with global presence and are designed to be easily configured and managed whether it is remotely through a secured browser or through the menu-driven LCD display. The WebMux 690PG load balancer offers an integrated copper GigE 20-port switch with optical support and redundant power supplies.

High Performance
Layer 4
- 4 GBps throughput capability
- 5,760,000 concurrent connections (Performance is based on NAT (In-Path Mode); higher performance can be achieved in Direct Response (Out-of-Path mode)
- 200,000 transactions per second capacity
- 3 x OC-12 Internet Link Speed

Layer 7
- 4,000 (Round trip/max) 1024bit RSA terminations per second (Most load balancers based on RSA 1024 bit operations)
- 144,000 Layer 7 Connection capacity
- Supports up to 32 Active SSL certificates (Contact AVANU for larger requirement)
- HTTP Compression
- TCP Optimization

NAT (In-Path), Direct Response (Out-of-Path), Transparent Bridge Modes
Solid-state technology
Built-in proxy function

High Availability
Load Balancing methods include Cookie content based, URL based, Round-robin, persistent round-robin, Weighted round-robin, Persistent weighted round-robin, Least connections, Persistent least connections, Weighted least connections, Persistent weighted least connection
802.1Q tagged VLAN trunking support for multiple VLANs and subnets
Multiple ISP for multi-homing high availalility capabilities
Multiple Address/Port (MAP) (Intelligent failover of rich media applications and increased flexibility)
Supports Spanning Tree Protocol enabled network switches to provide redundant path (Layer 2-3)
IP, URL and cookie based load balancing (Layer 4-7)
Supports unlimited number virtual servers
IP server capacity increased by load sharing
Failed server in the farm automatically by passed
Built-in high-level protocol checker makes sure the Servers are healthy
Persistent connections through unique routing algorithms
Burst Activity Management (BAM™) minimizes traffic overloads of UDP/DNS client requests
Dual configuration offering automatic failover (requires 2 WebMux units)

Enhanced Security
Passes all IP traffic and blocks the most common attacks pre-firewalls or servers
Provides several firewall features to ensure integrity of data
Protects servers from attacks (Network Address Translation - NAT and SNAT, Port Mapping and default Deny any connections, Denial of Service (DoS) protection, TCP SYN protection)

Diskless design
Port aggregation
Failover via Ethernet link
Service-aware
Server-aware
Backup server

Security
Network Address Translation (NAT/SNAT)
TCP SYN protection
Address mapping
Port mapping
TCP DoS protection
DDos detection & protection
HTTPS/SSH management
IPv6 Support

Topologies
20-Port 10/100/1000 Ethernet
Built-in Copper GigE 20-port Switch with Optical Support
Multiple Tag based VLANS
URL based content switch
Cookie based content switch

Device Support
Gigabit 20 + 4 Interface to switches
Unlimited Virtual Servers
Up to 65,542 Real Servers (Max)
Bridge/Router Role In Network
UDP-based service support

Management
Secure web browser access
In service/Not in service
SNMP
Phone/Pager alarm notification
Email notification
Configuration access
Persistent connections
Port-specific services

Physical
2U Rack Mount Form Factor
350w Power Consumption
5A - 115VAC Current
800BTU/H Heat Production
95-130VAC or 195-235VAC Power Requirements @50-60Hz
Redundant Power Supplies
0-40°C Operating Temp Range
40 Pounds Ship Weight

Compliance & Certification
Part 15, FCC (US), Class B (Canada), CE Mark (Europe), FIPS 140-2 standard, NIST (latest industry-standard Open SSL modules), RoHS