

ACCELERATE AND SECURE NETWORK APPLICATIONS

Blue Coat® PacketShaper® is part of the Application Delivery Network, an infrastructure that provides complete application visibility, acceleration and security. PacketShaper supports ADN with unmatched visibility to optimize WAN performance. With PacketShaper, you can automatically classify and measure network applications, provide quality of service (QoS) provisioning to control traffic and increase WAN capacity with compression capabilities.

Critical applications need to move at the speed of business. Blue Coat PacketShaper provides WAN Optimization functionality through a series of modules – monitoring, shaping and compression.

FEATURES

Monitoring Module

Before you can optimize application performance, you need an accurate picture of network traffic. Blue Coat PacketShaper automatically classifies and measures network applications, providing the insight of a probe but with deeper, application-intelligent Layer 7 Plus visibility. In addition to delivering network and application utilization and performance data, the Monitoring Module validates common protocols and tracks what happens to each connection established by each application. Monitoring also breaks down traffic per application and per site at a granular level, recording peak and average utilization rates, bytes transmitted, availability, utilization, top talkers/listeners, network efficiency and much more.

Once traffic has been identified, PacketShaper monitors performance – over 100 stats per application class – in real time. Track how much bandwidth applications are using, the end user response times of key applications and key stats like TCP Healthy, efficiency and troublesome servers to aid troubleshooting. Targeted packet captures can be accomplished for use with your protocol analysis tools.

Voice level intelligence tracks Mean Opinion Scores (MOS), jitter, delay and

loss for voice and video conferencing traffic over Real Time Protocol – for real traffic in real time.

All of these capabilities can integrate into your performance management environment, including intelligent thresholds and alerts when problems are about to occur.

- > Identify and classify applications with Layer 7 Plus technology. Monitor performance in real time and the information you need to solve performance issues.

Shaping Module

The Blue Coat PacketShaper Shaping Module provides Quality of Service (QoS) provisioning that helps you control traffic to ensure that latency-sensitive, customer-critical applications get the bandwidth they need to perform at their peak. With patented TCP rate control, the Shaping Module can automatically

enforce appropriate transfer rates for computers at the far end of the network to deliver true bi-directional QoS.

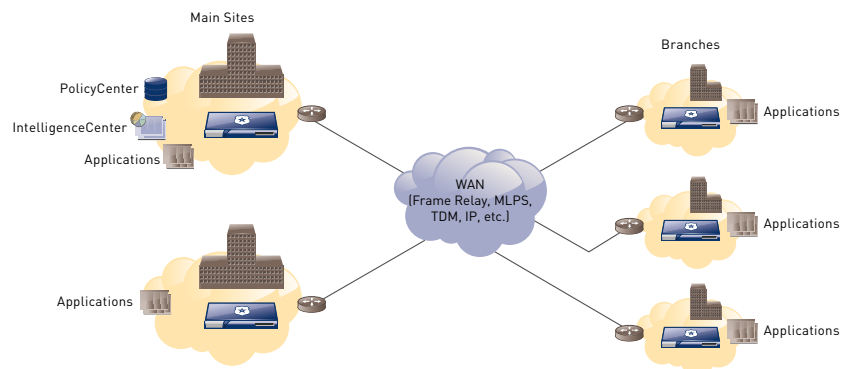
- > Fix critical application performance issues by allocating bandwidth to ensure applications perform.

Compression Module

The Blue Coat PacketShaper Compression Module instantly increases WAN capacity, improving application performance and user response times. Using a symmetric, application intelligent architecture and multiple data reduction methods, the Compression Module intelligently selects what traffic to compress and which technology to use – increasing capacity from two to ten times, reducing bandwidth usage and minimizing WAN latency.

- > Create more bandwidth from existing physical links and enhance the user experience.

Blue Coat PacketShaper Deployment



Blue Coat PacketShaper is the only all-in-one modular solution that extends application monitoring, shaping, compression and acceleration to the edge of the enterprise.

| PACKETSHAPER SERIES | 900 | 1700 | 3500 | 7500 | 10000 | 10000 ISP**** | |
|---|---|----------------------------------|--|--|--|--|---|
| Maximum Capacity | | | | | | | |
| IP Flows (TCP/Other IP)* | 5,000/2,500 | 30,000/15,000 | 40,000/20,000 | 200,000/100,000 | 300,000/150,000 | 900,000/360,000 | |
| Classes | 256 | 512 | 1,024 | 1,024 | 2,048 | 5,000 | |
| Dynamic Partitions | ** | 1,024 | 1,024 | 10,000 | 20,000 | 20,000 | |
| Static Partitions | 128 | 256 | 256 | 512 | 1,024 | 1,024 | |
| Shaping Policies | 256 | 512 | 512 | 1,024 | 2,048 | 2,048 | |
| Max # of Matching Rules | 640 | 2,562 | 2,562 | 5,120 | 5,000 | 5,000 | |
| IP Hosts* | 5,000 | 15,000 | 20,000 | 150,000 | 200,000 | 200,000 | |
| Active Tunnels | 5 | 15 | 30 | 100 | 1,000 | N/A | |
| Software Options and Upgrades | | | | | | | |
| Monitoring Only | Yes | Yes | Yes | Yes | Yes | Yes | |
| Link Speeds with Shaping Options (bps) | 512 Kbps 2 Mbps — — | 2 Mbps 6 Mbps 10 Mbps — | 2 Mbps 6 Mbps 10 Mbps 45 Mbps | 10 Mbps 45 Mbps 100 Mbps 200 Mbps | 100 Mbps 200 Mbps 310 Mbps 1G Mbps | 100 Mbps 200 Mbps 310 Mbps 1G Mbps | 100 Mbps 200 Mbps 310 Mbps 1G Mbps |
| Compression*** | 2 Mbps | 20 Mbps | 20 Mbps | 45 Mbps | 155 Mbps | N/A | |
| Interfaces | | | | | | | |
| Network Interfaces (in and out) | Copper: 10/100 Mbps | Copper: 10/100/1000 Mbps | Copper: 10/100/1000 Mbps | Copper: 10/100/1000 Mbps | Copper: 10/100/1000 Mbps Fiber: 1000 Mbps | Copper: 10/100/1000 Mbps Fiber: 1000 Mbps | |
| LAN Expansion Module (max 2) | Backup fail-to-wire pair built in | N/A | Copper: 10/100/1000 Mbps Fiber SFP | Copper: 10/100/1000 Mbps Fiber SFP | Copper: 10/100/1000 Mbps Fiber SFP | Copper: 10/100/1000 Mbps Fiber SFP | |
| Interface Pairs | 2 | 1 | 1 + LEM option | 1 + LEM option | 1 + LEM option | 1 + LEM option | |
| Out of Band Management | Through backup ports | Yes | Yes | Yes | With LEM | With LEM | |
| Console Port | All have RS-232 (AT-compatible) with male DB-9 connectors | | | | | | |
| Dimensions (All are 19 in. rack mountable) | | | | | | | |
| Height | 1U (1.75 in/4.45 cm) | 1U (1.75 in/4.45 cm) | 2U (3.5 in/8.89 cm) | 2U (3.5 in/8.89 cm) | 2U (3.5 in/8.89 cm) | 2U (3.5 in/8.89 cm) | |
| Width | 8.66 in (22.00 cm) | 17 in (43.18 cm) | 17.35 in (44.07 cm) | 17.35 in (44.07 cm) | 17.31 in (43.97 cm) | 17.31 in (43.97 cm) | |
| Depth | 9.68 in (24.60 cm) | 14 in (35.56 cm) | 16 in (40.64 cm) | 16 in (40.64 cm) | 20.25 in (51.43 cm) | 20.25 in (51.43 cm) | |
| Weight | 4.50 lbs (2.05 kg) | 14 lb (6.35 kg) | 18.04 lb (8.18 kg) | 20.48 lb (9.29 kg) | 33 lb (14.97 kg) | 33 lb (14.97 kg) | |
| Power | | | | | | | |
| Power Supply | 100/240 VAC; 50/60 Hz, 2 A | 100/240 VAC; 50/60 Hz, 2.5 A | 100/240 VAC; 50/60 Hz, 2.5 A | 100/240 VAC; 50/60 Hz, 2.5 A | 100/240 VAC; 50/60 Hz, 6 A | 100/240 VAC; 50/60 Hz, 6 A | |
| Dual, Redundant Load Sharing | No | No | No | Yes; Hot-swappable | Yes; Hot-swappable | Yes; Hot-swappable | |
| Additional Features | | | | | | | |
| Interoperability | XML, XML and CGI APIs, SNMP MIB, SNMP event traps, HP OpenView, infoVista, CA eHealth, Aprisma Spectrum, Micromuse Netcool | | | | | | |
| Device Management | Console access, Web browser interface, Telnet CLI, SNMP Blue Coat MIB and MIB-II support | | | | | | |
| Agency Approval | | | | | | | |
| Safety | IEC 60950-1; EN 60950-1+A11, CAN/CSA-C22 2 No, 60950-1:03; UL 60950-1:03; EN 60825-1,-2 Class 1 Laser | | | | | | |
| EMC/EMI | AS/NZS 3548 Class A; AS/NZS 4252.1; ICES-003 Class A; EMC Direct B9/336/EEC; EN 300 386 v1.3.1: 2001 Telecom EMC standard; EMC Directive 73/23/EEC; EMC Directive 93/68/EEC; EN 55022: 1998 Class A; EN 61000-3-2: 1995, A1[98] + A2[98], & prA1 4[00]; EN 61000-3-3:1:1995; EN 55024:1998, VCCI:2002 Class A; KN55022 Class A; KN6100-4-2,3,4,5,6,8,11; GOST-R 60950-2002; GOST-R 5131B.22,24-99; FCC 47 CFR part 15, subpart B Class A; CNS 13438 Class A | | | | | | |

Note: Not all capacity specifications can be maximized simultaneously

* PacketShaper can support more hosts and flows; these figures represent ideal maximums for producing optimal results; numbers are rounded up or down to the nearest thousand. These maximums represent concurrent flows. Performance may vary due to the number of new flows, traffic type, traffic mix and other conditions unique to each deployment.

** No extra partitions are specifically allocated for dynamic partitions. The 1400 Lite and 1400 have a pool of partitions to be shared between static and dynamic partitions.

*** Refers to post-compressed traffic rates - maximum compressed throughput specifications for PacketShaper are lower when compression is enabled due to the extra processing power required to compress traffic.

****PacketShaper 10000 has a configuration option for ISP loads. Previously, ISP editions had been offered as a separate product with unique SKU. Now, the ISP load, which adds class capacity, is available as a configuration option. Note: The ISP load increase capacity for classes and flows, but does NOT provide certain features including compression and response time statistics, among others.