VISIBILITY AND OPTIMIZATION FOR NETWORKED TRAFFIC

Blue Coat PacketShaper is a cloud-connected WAN and Internet appliance that provides visibility into applications and web content on your network, and powerful application level QoS policy management. Integrated with Blue Coat WebPulse™, PacketShaper provides real-time traffic discovery and classification of hundreds of applications and tens of millions of websites. With this intelligence, managers can configure simple but powerful bandwidth caps for disruptive applications and content such as YouTube, reserve bandwidth for key operational applications or guarantee fair allocation of bandwidth across VDI users.

Critical applications need to move at the speed of business. With PacketShaper, you can monitor and control application performance – even web-connected applications – while managing the increasing volume of web traffic based on content categories.

FEATURES Monitoring

Before you can optimize application performance, you need an accurate picture of network traffic. The Monitoring Module, which delivers the core functionality of PacketShaper, automatically classifies and measures network traffic by application and - in the case of web traffic – by content category. Integration with Microsoft Active Directory provides a user-based view of traffic to help administrators understand who is driving traffic on their networks. This unmatched visibility into network traffic gives you the insight of a probe but with far more sophistication. PacketShaper offers application-intelligent Layer 7+ visibility that integrates with WebPulse, the collaborative defense providing real-time content categorization. In addition to reporting on network and application utilization and performance, the Monitoring Module validates common protocols and tracks what happens to each connection established by any application.

As the proportion of web-based traffic continues to increase, PacketShaper provides invaluable management of web-connected applications such as SaaS, Social Media, recreational video, and audio/video communication. All web content requested by users is categorized under logical headings such as Collaboration, Games, and Social Networking. This latest advance in web content control and web threat visibility helps you assess the impact of recreational traffic, security threats such as malware and phishing, and undesirable content that can raise legal and compliance concerns.

Once traffic has been identified, PacketShaper monitors performance – over 100 stats per application class – in real time. PacketShaper tracks the bandwidth consumed by applications and web content categories, the response times of key applications by network and server delay, and key stats like TCP health, efficiency and retransmissions to aid in troubleshooting. PacketShaper also powers targeted packet traces for use with protocol analysis tools.

Real-time performance metrics include mean opinion score (MOS), jitter, delay, and loss for voice and video conferencing traffic over RTP. All these capabilities can integrate into your performance management environment, providing intelligent thresholds and alerts when problems are about to occur.

-> Identify and classify applications, web content, and web threats. Monitor performance in real time and gather the evidence you need to solve performance issues.

Shaping

PacketShaper does more than just monitor and measure. The Shaping Module provides powerful QoS tools to protect preferred applications and web content categories while containing the impact of undesirable traffic. With PacketShaper, you can:

- -> Guarantee bandwidth to latency-sensitive applications such as voice, video and virtual desktops.
- -> Allow access to social network sites like Facebook, but limit bandwidth to games like Farmville.
- -> Control the impact of acceptable (but lower priority) web traffic on businesscritical applications.

With patented TCP rate control, the Shaping Module can guarantee per-flow bandwidth and automatically enforce appropriate transfer rates for computers at the far end of the network to deliver bidirectional QoS.

-> Protect the best, contain the rest. Align network content with your priorities by speeding up or slowing down applications and web content categories.

Compression

Some types of network traffic make inefficient use of available bandwidth. By optimizing traffic in real time, the Compression Module instantly increases WAN capacity, improving application performance and user response times. Using a symmetric, applicationintelligent architecture, the Compression Module identifies compressible traffic and applies the appropriate compression technology, increasing capacity from two to four times, reducing bandwidth usage, and minimizing WAN latency.

-> Reclaim wasted bandwidth from existing physical links. Enhance the user experience.

PACKETSHAPER SERIES 10000 | 10000 ISP**** 12000 | 12000 ISP**** 900 1700 3500 7500 Maximum Capacity 300,000 | 700,000 450,000 | 900,000 IP Flows (TCP)* 5,000 30,000 40,000 IP Flows (UDP)* 2,500 20,000 100,000 150,000 | 300,000 225,000 | 400,000 15,000 2,048 | 5,000 / 10,000 Classes 256 512 1.024 1 024 2.048 | 5.000 ** Dynamic Partitions 1,024 1,024 10,000 20,000 | 20,000 20,000 | 20,000 Static Partitions 128 256 512 512 1,024 | 5,000 2,048 | 5,000 / 7,500 Shaping Policies 256 512 1.024 1.024 2,048 | 5,000 2,048 | 5,000 Max # of Matching Rules 640 2.562 2.562 5.120 5,000 | 12,500 12,288 | 20,000 / 25,000 150,000 IP Hosts* 5,000 15,000 20,000 200,000 | 320,000 300,000 | 540,000 1,000 | N/A 1,000 | N/A Active Tunnels 10 30 Software Options and Upgrades Monitoring Only Yes Yes Yes Yes Yes Yes Link Speeds with 512 Kbps 2 Mbps 2 Mbps 10 Mbps 100 Mbps 500 Mbps Shaping Options 2 Mbps 6 Mbps 6 Mbps 45 Mbps 200 Mbps 1 Gbps . No limit ***** 10 Mbps 10 Mbps 10 Mbps 100 Mbps 310 Mbps 45 Mbps 45 Mbps 200 Mbps 100 Mbps Compression*** 2 Mbps 10 Mbps 20 Mbps 45 Mbps 155 Mbps | N/A 155 Mbps | N/A Interfaces Onboard Ports (Pairs) Copper Copper: 1x10/100/1000 Copper: 1x10/100/1000 Copper: 1x10/100/1000 Mbps Copper: 1x10/100/1000 Mbps 1x10/100/1000 Mbps 2x10/100 Mbns Mbps Mhns Or, Fiber: 1x1000 Mbps LAN Expansion Modules Backup fail-to-wire N/A Up to 2 dual-port Up to 2 dual-port Up to 2 dual-port modules Copper, dual-port (1): 10/100/1000BASE-T or pair built in modules modules Copper: 10/100/1000 Mbps Copper: 10/100/1000 Copper: 10/100/1000 Fiber: SFP 10GBASE-CX4 Mbps Mbps Copper, four-port (1): Fiber: SFP Fiber: SFP 10/100/1000BASE-T Fiber, dual-port (1): 1000BASE-SX, 1000BASE-LX, 10GBASE-SR, 10GBASE-LF Fiber, four-port (1): 1000BASE-SX or 1000BASE-LX Out of Band Management Through backup ports Yes Yes Yes With LEM Yes, + Direct Standby port Console Port All have RS-232 (AT-compatible) with male DB-9 connectors Physical Properties (19 inch Rack-mountable) (9.68 in/24.60 cm) (16.97 in/43.1 cm) (16 in/40.64 cm) (16 in/40.64 cm) (20.25 in/51.43 cm) (27.44 in/69.70 cm) Dimensions (L x W x H) (17.4 in/44.2 cm) (17.35 in/44.07 cm) (17.35 in/44.07 cm) (17.31 in/43.97 cm) (16.93 in/43.0 cm) (8.66 in/22.00 cm) (1.75 in/4.45 cm) (1.75 in/4.45 cm) (3.5 in/8.89 cm) (3.5 in/8.89 cm) (3.5 in/8.89 cm) (1.69 in/4.30 cm) Weight 4.50 lbs (2.05 kg 14 lb (6.35 ka) 18.04 lb (8.18 ka) 20.48 lb (9.29 ka 33 lb (14.97 ka) 36.5 lb (16.5 ka) Power 100/240 VAC: 100/240 VAC: 100/240 VAC: 100/240 VAC: 100/240 VAC: 100/240 VAC: Power Supply 50/60 Hz, 2 A 50/60 Hz, 2.5 A 50/60 Hz, 2.5 A 50/60 Hz, 2.5 A 50/60 Hz, 6 A 50/60 Hz, 6 A Dual, Redundant Load Sharing Yes; Hot-swappable Yes; Hot-swappable Yes; Hot-swappable No No No Additional Features Interoperability XML, XML and CGI APIs, SNMP MIB, SNMP event traps, HP OpenView, infoVista, CA eHealth, IBM Tivoli, Micromuse Netcool Console access, Web browser interface, Telnet CLI, SNMP Blue Coat MIB and MIB-II support Device Management Regulation IEC60950 (CB Scheme), UL60950 (USA), CSA C22.2 No.60950 (Canada), EN60950 (CE/Europe), CNS14336 (Taiwan), GB4943 (China), MEK60950 (Russia), Safety KSC8305 (Korea), NOM-019 (Mexico), AS/NZS 60950-1 (Australia/New Zealand) EMC/EMI CISPR22/CISPR24 [International], EN55022/EN55024 (CE/Europe), FCC part 15 (USA), ICES-003 (Canada), VCCI V-3 (Japan), AS/ZNS-CISPR22 (Australia/New Zealand), CNS13438 (BSMI), 51318.22/51318.24 (Russia), GB9254/GB17625 (China), EM:KN22/IM:KN24 (Korea). Tested to Class A Emissions for all standards. RoHS-Directive 2011/65/EU, REACH-Regulation No 1907/2006 Environmental More Info Contact Regulatoryinfoldbluecoat.com for specific certifications or additional support 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 No extra partitions are specifically allocated for dynamic partitions. The PS900 has 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 *** equired to compress traffic PacketShaper 10000 and 12000 have a configuration option for ISP loads, which adds capacity for classes and flows but does NOT provide certain features including compression and response time statistics, among others. The higher values shown for PacketShaper 12000 are enabled by an optional license.

***** No limit: Typical aggregate throughput (in + out) is 2.5 – 8.0 Gbps, and varies depending on flow rates, average packet size, enabled features, and other factors.

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