Introduction
Your business demands high performance and high efficiency from your network. Cloud, mobile and video applications drive unprecedented levels of bandwidth demand that can damage the performance of mission critical applications. Symantec PacketShaper helps enterprises to control bandwidth cost, deliver a superior user experience and align network resources with business priorities. It is a cloud-connected WAN and internet appliance that provides visibility into applications and web content on your network, along with powerful application-level policy management. A core element of Symantec Network Performance Optimization solutions, PacketShaper is integrated with the Symantec Global Intelligence Network for real-time traffic discovery and classification of hundreds of applications and tens of millions of websites. It is an indispensable tool that network administrators rely on to effectively manage their network efficiency and application performance.

Visibility
Your network and applications need to run at the speed of your business. But before you can optimize application performance, you need an accurate picture of your network traffic. The PacketShaper delivers full visibility by automatically classifying network traffic by application and content category. Integration with Microsoft Active Directory provides group- and user-based traffic views to help you understand who consumes the most bandwidth on the network. This unmatched visibility into network traffic gives you deep insights that can guide your policies and control of network traffic.

In addition, PacketShaper offers application-intelligent Layer 7+ visibility that integrates with the Symantec Global Intelligence Network to provide real-time content categorization. In addition to reporting on network and application utilization and performance, the PacketShaper 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 management for web-connected applications such as Cloud applications, social media, recreational video, and audio/video communication. All web content requested by users is automatically categorized under more than 80 logical headings, such as Collaboration, Games and Social Networking. This level of 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. It tracks the bandwidth consumed by applications and web content categories, the response time of key applications by network and server delay, and key stats such as 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 before problems occur.

Control
PacketShaper does more than just identification and classification; it provides powerful QoS tools to protect preferred applications and web content categories while containing the impact of undesirable traffic. To maintain high network efficiency and high performance for business-critical applications traffic must be segmented and prioritized. Control should be built on visibility, so that network administrators can partition traffic and prioritize it by its relevant values to your business. Network administrators may want to restrict recreational video or BYOD downloads to a small but reasonable portion of network bandwidth so it neither impacts important business applications nor incurs the wrath of sports enthusiasts (including vice presidents and senior directors) or BYOD-driven employees. For example, you can exert the following QoS controls with the PacketShaper:

• Improve user experience by guarantying bandwidth to latency-sensitive applications such as VoIP, video conferencing, and virtual desktops.
• Protect performance of key business applications via bandwidth allocation and prioritization over non-essential traffic.

• Allow access to social network sites such as Facebook and YouTube, but limit their bandwidth impact on the network.

• Guarantee per-flow bandwidth and automatically enforce appropriate transfer rates with patented rate control technology for systems at the far end of the network to deliver bidirectional QoS.

• Protect the best, contain the rest: align network usage with your business priorities based on applications and content.

Monitoring

With the visibility and control provided by PacketShaper, your network is running at its optimal efficiency. But it is always a good idea to monitor your network activities regularly and make appropriate adjustments if necessary.

The real-time dashboard monitoring tool, part of the PacketShaper offering, provides you with immediate intelligence about what is consuming your network bandwidth and how your network bandwidth is being utilized. The dashboard enables you to see which applications or users are consuming the most bandwidth and how much of your available network bandwidth is being consumed at any given moment. The dashboard updates every few seconds, giving you real-time visibility into the status of the traffic on your network.

The on-box reports and the optional central reporting solution give insights into the way critical business services and applications perform across a network. These reporting solutions use application information collected by the PacketShaper to monitor the quality of application delivery and help to set performance goals. Administrators can use the reported application and network information to effectively manage network performance and optimize user experience for their WAN, Internet links and cloud applications. With PacketShaper and these powerful reports, you will be able to:

• Gain insights into application and user behaviors to identify potentially risky and inappropriate activities

• Improve the performance and efficiency of business-critical services and processes

• Set control policies that dynamically optimize your network infrastructure

• Improve critical application performance and user experience

• Monitor network performance and measure against SLA and expectations

• Protect your infrastructure investment and minimize unnecessary network resource waste
### Physical Properties

#### $S200$
- **Dimensions and Weight**
  - **Dimensions**
    - (L x W x H)
      - 446.3mm x 440.0mm x 43.5mm (chassis only)
      - 454.5mm x 442.6mm x 43.5mm (chassis with extensions)
  - **Weight (max)**
    - Approx. 7.4 kg (16.4 lbs) +/- 5%

#### $S400$
- **Dimensions and Weight**
  - **Dimensions**
    - (L x W x H)
      - 572mm x 432.5mm x 42.9mm (chassis only)
      - 643mm x 485.4mm x 42.9mm (chassis with extensions)
  - **Weight (max)**
    - Approx. 12.8 kg (28 lbs) +/- 5%

#### $S500$
- **Dimensions and Weight**
  - **Dimensions**
    - (L x W x H)
      - 710mm x 433.3mm x 87.2mm (chassis only)
      - 812.8mm x 433.4mm x 87.2mm (chassis with extensions)
  - **Weight (max)**
    - Approx. 30kg (66.12 lbs) +/- 5%

#### Operating Environment
- **AC Power**
  - 100-127VAC @ 6A 200-240V @ 3A, 47-63Hz
    - Includes one power supply; second redundant and hot swappable power supply optional
  - 100-127VAC @ 8A, 200-240VAC @ 4A, 47-63Hz
    - Includes dual redundant and hot swappable power supplies
- **Total Output Power**
  - 350 Watts
  - 450 Watts
  - 1100 Watts
- **Thermal Rating**
  - Typical: 785 BTU/Hr, Max: 1195 BTU/Hr
  - Typical: 1086 BTU/Hr, Max: 1381 BTU/Hr
  - Typical: 2598.42 BTU/Hr, Max: 3751 BTU/Hr
- **Optional DC Power**
  - Not available
  - Input voltage range: 40.5V - 57V
    - Input Max Current: 22A
    - Total Output Power: 770W
  - Input voltage range: 40 - 72 VDC
    - Input Max Current: 30A
    - Total Output Power: 1100W

### PacketShaper Series – $S200$, $S400$ and $S500$

#### Regulations
- **Safety**
  - International: CB – IEC60950-1, Second Edition
  - USA: NRTL – UL60950-1, Second Edition
  - Japan: NOM-019-STfi by NRTL Declaration
  - Argentina: S Mark – IEC 60950-1
  - Taiwan: BSMI – CNS-14336-1
  - China: CCC – GB4943.1
  - Australia/New Zealand: AS/NZS 60950-1, Second Edition
  - Korea: KC – RRA, Class A
  - Russia: CU – IEC 60950-1
- **Electromagnetic Compliance (EMC)**
  - International: CISPR22, Class A, CISPR24
  - USA: FCC part 15, Class A
  - Canada: ICES-003, Class A
  - European Union (CE): EN55022, Class A; EN55024; EN61000-3-2; EN61000-3-3
  - Japan: VCCI V-3, Class A
  - Mexico: NOM-019-STfi by NRTL Declaration
  - Argentina: S Mark – IEC 60950-1
  - Taiwan: BSMI – CNS13438, Class A
  - China: CCC – GB9254; GB17625
  - Australia/New Zealand: AS/ZN5-CISPR22
  - Korea: KC – RRA, Class A
  - Russia: GOST-R 51318.22, Class A; 51318.24; 51317.3.2; 51317.3.3

#### Environmental
- **Product Warranty**
  - Limited, non-transferable hardware warranty for a period of one (1) year from date of shipment.
  - Support contracts available for 24/7 software support with options for hardware support.
- **Gov’t Certifications**
  - For further government certification information please contact DL-BC-GROUP_Federal_Certifications@symantec.com
- **More Info**
  - Contact regulatorycompliance@symantec.com for specific regulatory compliance certification questions and support

### About Symantec

Symantec Corporation (NASDAQ: SYMC), the world’s leading cyber security company, helps organizations, governments and people secure their most important data wherever it lives. Organizations across the world look to Symantec for strategic, integrated solutions to defend against sophisticated attacks across endpoints, cloud and infrastructure. Likewise, a global community of more than 50 million people and families rely on Symantec’s Norton and LifeLock product suites to protect their digital lives at home and across their devices. Symantec operates one of the world’s largest civilian cyber intelligence networks, allowing it to see and protect against the most advanced threats. For additional information, please visit www.symantec.com or connect with us on Facebook, Twitter, and LinkedIn.