



Achieve HEOA & DMCA Compliance with PacketLogic Traffic Shaping Solutions

While almost all Higher Education institutions are intimately familiar with the Digital Millennium Copyright Act, with many having received DMCA notices, a piece of legislation titled the Higher Education Opportunities Act of 2008, or HEOA, has recently come to the light as a new requirement that lays out very specific guidelines for combating the unauthorized distribution of copyrighted materials.

As defined in an update to the HEOA, starting on July 1st, 2010, colleges and universities are required to develop and implement a plan in writing to combat illegal P2P file sharing. Educause recently called out the four categories of “technology-based deterrents” mechanisms cited in the HEOA:

1. Bandwidth shaping
2. Traffic monitoring to identify the largest bandwidth users
3. A vigorous program of accepting and responding to Digital Millennium Copyright Act (DMCA) notices
4. A variety of commercial products designed to reduce or block illegal file sharing

Enable Multiple Service Level Offerings with Procera Smart Campus

Using Procera’s Smart Campus solution, PacketLogic can integrate with authentication servers such as RADIUS, or NAC servers from Bradford Networks, Cisco, or ImpulsePoint to dynamically provision various service

levels (i.e.bandwidth rates) to end users based on their subscriber profile (student, faculty, grad student, etc). The Smart Campus solution tracks users by User ID, regardless of location or mobility Across fixed or wireless connections, helping to expedite the investigation of a DMCA take-down notice. Smart Campus also enables schools to apply quotas on the aggregated consumption of multiple devices associated to a User ID.

PacketLogic: The most effective way to combat the unauthorized distribution of copyrighted materials

PacketLogic from Procera Networks is a next-generation traffic shaping appliance that uses state-of-the-art deep packet inspection technology to monitor and prioritize the flow of data through your network. And while traffic management solutions are certainly not a new tool for preventing illegal file sharing, here’s why over 100 schools such as Vanderbilt, Kansas State, Univ. of Washington, UCONN, and Ohio Univ. have invested in Procera to meet HEOA & DMCA requirements and stop illegal P2P activity on their campuses:

- **Most Comprehensive Application Identification:** PacketLogic uses an application database of 1,700+ signatures, nearly 300% larger than the market leading packet shaping vendor, to identify over 10,000 internet applications. One SUNY university reported that their previous

“ We at Virginia Commonwealth take our responsibility under the HEOA seriously. Procera’s PacketLogic fulfills our obligation of providing a technology-based deterrent against illegal P2P file sharing and it shields us from potentially costly liability. With Procera’s comprehensive application coverage, we can identify and moderate all P2P traffic. Cutting the number of DMCA take-down notices we have to address significantly reduces our costs. ”

— Michael Sosnkowski
Network Engineer Supervisor
and Senior Architect
Technology Services
Virginia Commonwealth University



PSM
PacketLogic™
Subscriber Manager



PIC
PacketLogic™
Intelligence Center



PRE
PacketLogic™
Real-Time Enforcement

vendor had unidentified traffic rates of 25-30%, which dropped down to 3-5% when they installed PacketLogic. This prevented an upgrade to a larger internet circuit, which alone paid for their Procera purchase.

- **Granular Policy Control and Reporting:** PacketLogic's intuitive management console allows network administrators to quickly define and apply granular policies for various user groups, time-of-day, location, and other criteria. Our comprehensive reporting features allow you to produce detailed network activity reports that can be easily extracted into PowerPoint or other formats for demonstrating your visibility into the university's network traffic.

- **Enable Multiple Service Level Offerings:** Using Procera's Smart Campus solution, PacketLogic can integrate with authentication servers such as RADIUS or Bradford Networks Campus Manager to dynamically provision various service levels (i.e. bandwidth rates) to end users based on the User ID. Employing this same solution, we can also track network usage by the actual user names, not just IP addresses.
- **Future-Proofed Solutions with Throughput up to 40Gbps:** With Procera's highly scalable platforms, such as the 8720 with 15Gbps throughput, and the 8820 with 30Gbps, Higher Education customers can be assured that they're deploying a solution that

will serve them for the next five years and beyond. And with the ability to store historical stats onboard for up to 25,000 and 50,000 users respectively, many schools will be able to deploy a single device to meet all their traffic management needs.

Contact Procera Networks

To find out how Procera can help you meet HEOA and DMCA requirements while gaining greater control and visibility into your network, please contact us at info@proceranetworks.com or call us at 877-776-2372, option #1. Working with an Authorized Procera Reseller, we can schedule a tailored web demo to review the solution, and if you're impressed, facilitate a no-cost evaluation to see if PacketLogic meets your specific requirements.

Specifications	PL5600	PL7720	PL8720	PL8820
Connections/Flows	80,000/160,000	1,000,000/2,000,000	5,000,000/10,000,000	10,000,000/20,000,000
Connections Per Second	5,000	50,000	150,000	200,000
Throughput	200 Mbps	2 Gbps	15 Gbps	30 Gbps
Subscribers	2,000	100,000	1,000,000	2,000,000
Management Interfaces	10/100/1000	10/100/1000	2x10/100/1000	2x10/100/1000
Number of Channels	3xFE/GE	2xGE	16xGE, 4x10GE	16xGE, 4x10GE
Physical Interfaces	10/100/1000 copper with bypass (fail to wire)	10/100/1000 copper with bypass (fail to wire); Multi-Mode SX GE fiber with/without bypass (fail to wire); Single-Mode LX GE fiber with bypass (fail to wire)	10/100/1000 copper; Multi-Mode SX GE fiber; Single-Mode LX GE fiber; Multi-Mode SR 10GE fiber; Single-Mode LR 10GE fiber	10/100/1000 copper; Multi-Mode SX GE fiber; Single-Mode LX GE fiber; Multi-Mode SR 10GE fiber; Single-Mode LR 10GE fiber
Console Port	RJ-45 Console	RJ-45 Console	RJ-45 Console	RJ-45 Console
Redundancy	Internal Bypass	Internal Bypass	Internal Bypass, External Bypass	Bypass, FlowSync
Bandwidth Licensing	4,10,24,45,100Mbps	100,200,400,1G, Unrestricted	1G Increments	1G increments
Network Management	PacketLogic Intelligence Center	PacketLogic Intelligence Center	PacketLogic Intelligence Center	PacketLogic Intelligence Center
Subscriber Management	PacketLogic Subscriber Manager	PacketLogic Subscriber Manager	PacketLogic Subscriber Manager	PacketLogic Subscriber Manager
Hardware	1 rack unit (RU), 19" rack-mounted	2 rack unit (RU), 19" rack-mounted	2 rack unit (RU), 19" rack-mounted	2 rack unit (RU), 19" rack-mounted
Components	Appliance, fixed form factor	Appliance, fixed form factor	Appliance, fixed form factor	Appliance, fixed form factor
Size	1.75" (h) x 17" (w) x 17" (d) / 4.45cm (h) x 43.2 cm (w) x 43.2 cm (d)	3.5" (h) x 16.7" (w) x 23" (d) / 8.8 cm (h) x 42.6 cm (w) x 58.4 cm (d)	3.5" (h) x 16.7" (w) x 23" (d) / 8.0 cm (h) x 43.0 cm (w) x 54.7 cm (d)	3.5" (h) x 16.7" (w) x 23" (d) / 8.0 cm (h) x 43.0 cm (w) x 54.7 cm (d)
Weight	28.6 lbs/13 kg	44 lbs/20 kg	40 lbs/18 kg	40 lbs/18 kg
Power	Wattage: 350W; Voltage: 100-240VAC rated; Frequency: 50-60Hz; Current: 5-8A	Wattage: 600W; Voltage: 10-250VAC rated; Frequency: 47-63Hz; Current: 3A	Wattage: 600W; Voltage: 100-240 VAC or 36-72 VDC, Frequency: 50-60Hz; Current: 5A	Wattage: 600W; Voltage: 100-240 VAC or 36-72 VDC, Frequency: 50-60Hz; Current: 5A
Environmentals	Temperature: Operating: 0°C to 40°C; Storage: -20°C to 80°C; Operating humidity: 10% to 90% (non-condensing)	Temperature: Operating: 0°C to 40°C; Storage: -20°C to 70°C; Operating humidity: 5% to 95% (non-condensing)	Temperature: Operating: 0°C to 40°C; Storage: -20°C to 75°C; Operating humidity: 5% to 85% (non-condensing)	Temperature: Operating: 0°C to 40°C; Storage: -20°C to 75°C; Operating humidity: 5% to 85% (non-condensing)