

PACKETLOGIC™ CONGESTION MANAGEMENT

PROCERA

Delivering a high quality of experience

KEY SYSTEM BENEFITS

- Advanced Queue Management**
Use of BLUE Traffic Management algorithms is more effective at managing TCP application
- Highly Scalable Fair Usage**
Scalability to thousands of users on a single link
- Hierarchical Management**
Effective hierarchical management from a single location in the network with accesslevel visibility
- Parallel Queuing**
Orthogonal classification of traffic into multiple, simultaneous queues and actions based
- Industry-leading performance and scale**
Carrier-class reliability and capacity

Broadband subscribers are demanding a high quality of experience (qoe) from their broadband networks. Can yours deliver?

Consumers rely on fixed and mobile broadband networks. Quality problems on those networks result in dissatisfaction, customer support calls, and subscriber churn. An intelligent network can ensure that high-value applications and real-time traffic meets the subscriber's quality expectations without requiring unlimited bandwidth.

Procera's PacketLogic Congestion Management software enables broadband network operators to choose the right Congestion Management solution to meet the changing needs of their network and of their subscribers.

Procera's unique visibility of subscriber, application, content, device, location, and quality of experience (QoE) enable congestion management solutions that deliver on each subscriber's QoE expectations.

HIGH-VALUE USE CASES

PacketLogic solutions enable a variety of use cases that provide significant benefits to fixed and mobile broadband operators, including:

- **Fair Use** – Ensuring that a few subscribers on an access link cannot degrade the experience for all users.
- **Analytics and Forecasting** – Forecast when and why links will need to be upgraded or additional link splits will be needed to maintain acceptable quality levels.
- **Usage Management** – Managing the amount and volume of bandwidth that individual subscribers, applications, and content can consume at one time.
- **Selective Optimization** – Trigger Advanced Traffic Steering when congestion is due to a specific application or content type.
- **CAPEX Management** – Upgrade links only when QoE cannot be maintained using congestion management techniques, reducing operational costs.

PACKETLOGIC™ CONGESTION MANAGEMENT SOFTWARE

KEY TECHNOLOGY

- **ACTIVE QUEUE MANAGEMENT (AQM)** – AQM can deliver more goodput (better utilization of actual payload on the network) and lower overall latency (less queue usage in the network elements).
- **FAIR SPLIT (FAIR USAGE)** – Allocate bandwidth on any link based on the number of active subscribers or connections to ensure fair access bandwidth for all subscribers, resulting in a better quality of experience for all users.
- **FAIR FACTOR (SERVICE AWARENESS)** – Fair Usage with Service Plan awareness, enabling weighted allocation of available bandwidth based on individual subscriber’s service plans.
- **USAGE MANAGEMENT** – Visibility of subscriber, application, content, device, location, and QoE enables flexible management of the subscriber’s user experience to maximize customer satisfaction.

Figure 1

Mobile and Fixed Broadband
Network Subscribers



- Fair usage across subscribers
- Bandwidth and volume usage management
- Selective traffic optimization
- Congestion management reports optimize CapEx spending

Internet Content



ABOUT PROCERA NETWORKS

Procera Networks, the global Subscriber Experience company, is revolutionizing the way operators and vendors monitor, manage and monetize their network traffic. Elevate your business value and improve customer experience with Procera’s sophisticated intelligence solutions. For more information, visit proceranetworks.com or follow Procera on Twitter at @ProceraNetworks.

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