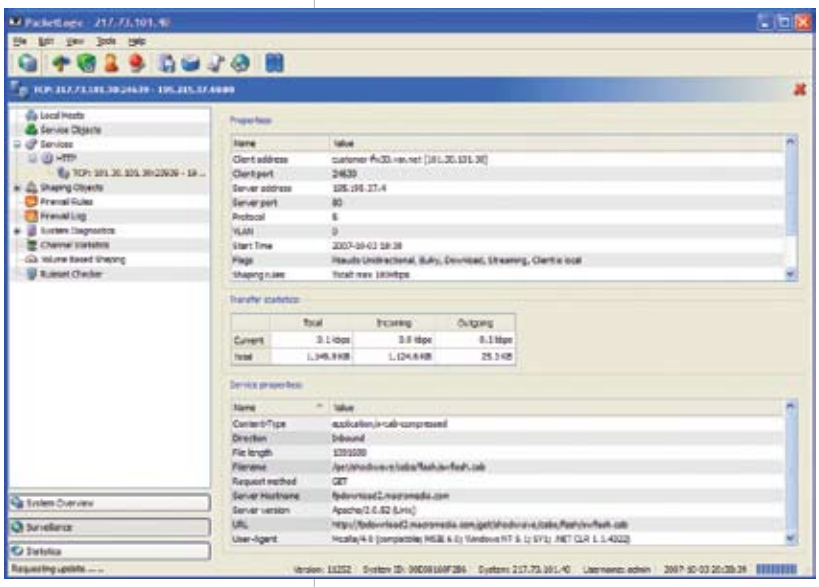
procera NETWORKS

Broadband Network Traffic and Service Management

PacketLogic
Surveillance

PacketLogic is a modular traffic management software system that consists of five modules. The base module, which is required in all systems, is the Surveillance module. The other four software modules, all optional but offering very powerful capabilities, include the Filtering, Traffic Shaping, Statistics and Web Statistics modules. When these modules are combined with the PacketLogic™ hardware platform, they deliver a very unique, powerful and scalable network traffic management solution for broadband service providers. Service providers can select from multiple PacketLogic hardware platforms offering a range of configurations and capabilities.

The Surveillance module provides network operators a detailed, real-time view of all traffic flowing through their IP network. This comprehensive view of the network allows them to accurately monitor the network load and conduct analysis of traffic patterns to ensure the highest-quality user experience and optimal utilization of bandwidth resources. The module tracks all inbound and outbound connections, identified by local hosts (IP addresses) or application protocols (services). The module also identifies and tracks in real-time all service properties and connection details, allowing administrators to pinpoint bandwidth usage down to individual users or hosts, as well as what that bandwidth is being used for.



The connection-tracking capabilities of the PacketLogic network stack enable Deep Flow Inspection, in which packets are placed into context. The flows – or connections – are also passed through the traffic identification component, Datastream Recognition Definition Language (DRDL™), which is able to determine the application or protocol responsible for generating the traffic, and also to extract Layer 7 properties such as URL, SIP caller ID, or chat channel. This provides more precise information in the Surveillance and Statistics modules, and more intuitive rule and policy setting in the Traffic Shaping and Filtering modules

Key Benefits

Flow-based intelligent traffic management

Monitor all IP traffic in real time

Find discrepancies in traffic patterns

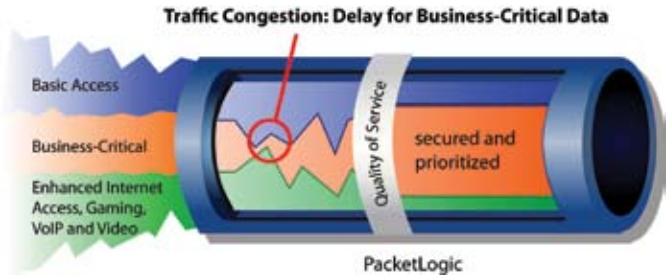
Manage support based on accurate information

Provides a total traffic overview down to details on a specific connection

About PacketLogic

PacketLogic employs Procera's proprietary Datastream Recognition Definition Language (DRDL) engine for identification of application protocols or services. During the identification process, DRDL aggregates application traffic properties like filename, chat channel, SIP caller ID, URL and direction. Hundreds of services (HTTP, SMTP, FTP, Kazaa, Direct Connect, SSL, SSH etc.) are currently available as DRDL signatures, and new signatures are added constantly. DRDL also offers a scripting language that enables network managers to script signatures for proprietary applications.

PacketLogic is administered through an easy-to-use client software – available for Windows, Linux and Mac OS X – that also enables secure remote administration. The client software can also connect to multiple PacketLogic systems simultaneously to enable centralized management, with one PacketLogic system as Primary and the other systems as Secondary. Rules and updates are automatically pushed to the Secondary systems, while still allowing the Secondary systems to configure and set local rules.



All modules are managed by the same client software. PacketLogic uses objects that group local hosts, services, ports and time-based schedules. These objects are used by all modules, making it easy to add entries and apply the same filtering and shaping rules. Rules are instantly activated, even on established connections. All manual processes done in the client software can also be automated using Python scripts and Procera's Python-based API. The API is utilized to integrate PacketLogic with third-party applications that can leverage the data collected and monitored by PacketLogic. Applications such as legacy systems (BSS), network management systems, and user authentication (Radius/AAA) commonly use the API to automate service management.

PacketLogic is typically installed at the access to the network, at the user aggregation or network peering point. PacketLogic can also be deployed at the transit point, or in the core.

US Headquarters
Procera Networks
100 Cooper Court
Los Gatos, CA 95070 USA
Phone: +1 (408) 354-7200
Fax: +1 (408) 354-7211
Toll-Free: 877-PROCERA (776-2372)

Europe and Middle East
Procera Networks
Härdgatan 13C
432 31 Varberg, Sweden
Phone: +46 (0)340 48 38 00
Fax: +46 (0)340 48 38 28

Asia/Pacific
Procera Networks Pty Ltd
206 566 St Kilda Rd
Melbourne VIC 3004 Australia
Phone: +61 (0)3 9526 8495
Fax: +61 (0)3 9526 8483

[1]The two Gigabit Ethernet ports are collectively referred to as one channel. One port is used as the interface to the internal (local) network and one port is used as the interface to the external (Internet) network. [2] All capacities are defined under ideal conditions. Actual performance will vary depending on configuration, traffic type and flow properties. [3]The four Gigabit Ethernet ports are collectively referred to as two channels. Two ports are used as the interfaces to the internal (local) network and two ports are used as the interfaces to the external (Internet) network.

PacketLogic Software Modules

Surveillance
- Identifies real-time traffic flows
- Tracks inbound and oubound connections
- Identifies all local hosts (IP addresses)
- Identifies all application protocols (services)
- DRDL core technology

Filtering
- Enables filtering based upon application service properties
- Enables filtering based upon host address
- Enables filtering based upon time-of-day rules
- Dynamic triggers of rules to automatically react to threshold value violation

Traffic Shaping
- Establishes performance enforcement rules (fairness)
- Rules are nested to create highly specific rules
- Shaping based upon bandwidth or application properties
- Shaping based upon business rules

Statistics
- Enables collection of real-time statistics
- Provides real-time view of network status
- Enables statistics on shaping rules
- Statistics collected every 5 seconds (by default)

Web Statistics
- Provides real-time or historical view of network status
- Creates graphs of key parameters
- Allows customers direct access to their own statistics

PacketLogic Platform Options

PL5600
- 1U, single Ethernet channel [1]
- RJ45 interface (10/100/1000 Mbps)
- Up to 100,000 bidirectional flows [2]
- Up to 1000 active, concurrent local hosts

PL7600
- 1U, single Ethernet channel [1]
- RJ45 interface (10/100/1000 Mbps with bypass)
- Multi-Mode (SX) Fiber (1 Gbps, with or without bypass)
- Single-Mode (LX) Fiber (1 Gbps, with or without bypass)
- Up to 1,000,000 bidirectional flows [2]
- Up to 16,384 active, concurrent local hosts

PL7620
- 2U, dual Ethernet channels[3]
- RJ45 interface (10/100/1000 Mbps with bypass)
- Multi-Mode (SX) Fiber (1 Gbps, with or without bypass)
- Single-Mode (LX) Fiber (1 Gbps, with or without bypass)
- Up to 1,000,000 flows[2]
- Up to 16,384 active, concurrent local hosts

PL9200
- 2U, single Ethernet interface
- Single-Mode (LR) Fiber (10 Gbps, without bypass)
- Up to 1,000,000 flows [2]
- Up to 16,384 active, concurrent local hosts

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