Net Reporter

Datasheet

Traffic Monitoring, Reporting and Trend Analysis

Highlights

- IP service monitoring

- Application and subscriber usage statistics

- Seamless near-real-time & long-term network monitoring

- Customizable direct-view and e-mail reports

- Drill-down from entire network links to individual subscribers

ipoque Net Reporter is a centralized statistics collection, storage and analysis system collecting data from PRX Traffic Managers deployed across the network and providing application- and subscriber-level network visibility. Near-real-time traffic statistics facilitate operational network monitoring and troubleshooting, and long-term reports enable historical trend analysis and capacity planning. The Web-based graphical user interface provides seamless views across all timescales and comprehensive drill-down capabilities from entire network links to individual applications and subscribers.

Solution Overview

PRX Traffic Manager generates a large amount of fine-grained traffic statistics from its deep packet inspection (DPI) engine. Net Reporter collects, aggregates and stores these data and presents them via its Web-based graphical user interface. It complements and extends the statistics capabilities of the PRX Traffic Manager's integrated graphical user interface.

Net Reporter comes as a fully pre-installed and pre-configured server appliance, that starts collecting data immediately after entering the management interface IP address of each PRX Traffic Manager. It provides access control for its graphical user interface with integrated user rights and role management.
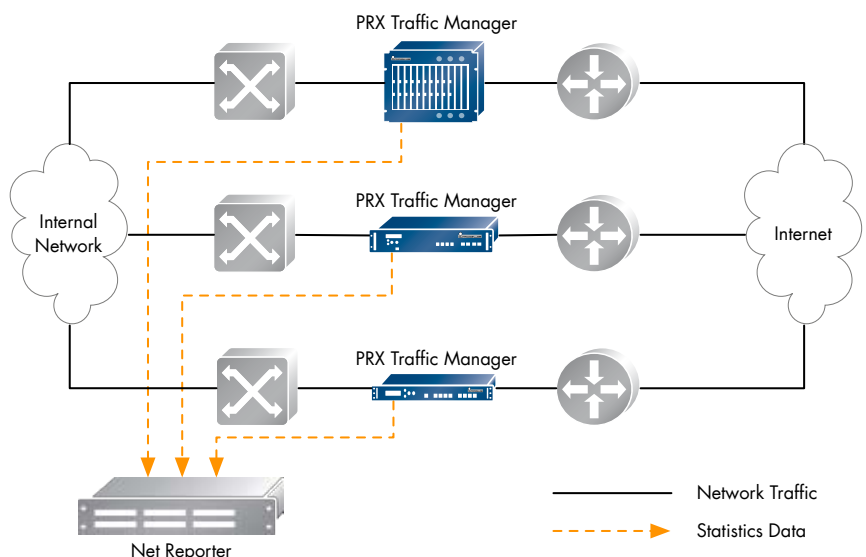
Network & Subscriber Visibility

- Individual and aggregated device statistics
- Policy class statistics
- Protocol statistics
- Subscriber statistics
- Top-talker statistics for subscribers, protocols and devices
- modular, easy-to-extend structure

Net Reporter presents resource usage in bits and packets per second and per traffic direction. It displays bandwidth consumption for network users and applications over the selected time period ranging from a few minutes to an entire year. For a set of PRX Traffic Managers, which collect raw data at various locations in an operator's network, these values are reported for each system individually and aggregated across all. Statistics are available for each layer-7 protocol and application supported by ipoque's award-winning DPI engine and aggregated for each operator-defined policy class.

Real-Time & Long-Term Monitoring

- Seamless zoom across all timescales
- One-minute data resolution for near-real-time monitoring
- One year data storage

All collected statistical data are display graphically and numerically at timescales from near-real-time to long-term using a seamless zoom navigation across the entire time range. The highest resolution of data points is one minute for device, policy class and protocol statistics and five minutes for subscriber statistics. Along with drill-down capabilities from entire network links to individual network users, it provides comprehensive application- and subscriber-aware network visibility. Details about aggregation intervals and their resolution can be found in the table below

Statistics Type	Aggregation Resolution	Aggregation Interval
Link	1 minute	2 weeks
	5 minutes	3 months
	1 hour	1 year
Policy Classes	1 minute	2 days
	5 minutes	3 weeks
	1 hour	3 months
	1 day	1 year
Subscriber	5 minutes	1 week
	1 hour	3 months
	1 day	1 year

Statistics & Reporting Interface

- Graphical and tabular statistics display
- Graphical report building interface
- Configurable line, bar and pie charts
- Configurable dashboard
- Unlimited custom reports for direct view or scheduled e-mail distribution in PDF format
- Raw data SOAP Webservice interface

After logging in to Net Reporter's Web-based graphical user interface, a configurable dashboard provides a quick overview of the most important network resource usage statistics. From this bird's-eye view it is possible to drill down all the way to the application-specific bandwidth consumption of individual network users by only a few mouse clicks. Each graphical or tabular statistics view can easily be added to the dashboard by a click of a button. Similarly, each view can also be defined as part of a customized report, which can be accessed directly from the user interface or automatically distributed via e-mail at scheduled time intervals.

Net Reporter Edition	Number of Subscribers	Hardware	Disk Space
Lite Edition	1.000	virtual machine	20 GB
Enterprise Edition	50.000	1U server	2.5 TB
ISP Edition	500.000	2U server	8 TB
Carrier Edition	10.000.000	on request	on request