

PacketLogic PL1200



Product Overview

The software module PacketLogic Statistics is a valuable tool for everyone at a broadband service provider (BSP). It provides knowledge about what your users do online and how your network is being utilized. This satisfies the need for user intelligence from product management and marketing. It also automates the reporting to corporate management. Resource planning can see what is actually creating demand for further capacity upgrades, and abuse management can trace malicious behavior to a specific users.

PL1200 is the Statistics server, also known as PLS in the PacketLogic solution, that aggregates traffic data. The PL1200 is a reliable file server with two (2) or five (5) hard disk drives (HDD) in a RAID1 or RAID5. This enables fast writing of large data quantities and data resilience in case of a HDD failure.

The PL1200 is a 19" rack-mounted server and can either be connected directly to the PacketLogic rule system (PLR) sitting in the packet path, through a patch cable, or remotely to the PL1200's IP address. Only the relevant data, i.e. the DRDL data from PacketLogic, is sent to the PLS. This makes the PLS scalable to manage several PLRs. Typical installations manage three (3) to seven (7) PL7600/PL7620 per PL1200, depending on type of traffic and user behavior. Multiple PL1200 can also serve one PLR, like in the case of PL10000.

Data is sent from the PLR to once every hour. The data is written to a flat file database structure with an optimized indexing for quick accessibility. The data is available as clickable diagrams – pie, bar and line diagrams – through the PacketLogic administration client. The graphical user interface (GUI) client is available for Windows, Linux and Mac. The data, or a selection of data, can also be exported through the PacketLogic Python API for processing elsewhere, like in Excel, SQL or a data warehouse.

Backups are typically set up to automatically pull data from the PL1200. The PL1200 will delete data in chronological order when running out of disk space. The backup can be setup to only receive a subset or a summary of data through the PacketLogic Python API.

PL1200 Hardware Platform

PL1200 is a two (2) rack unit (RU) 19" rack-mounted appliance with AC or DC power supply. The depth is server depth (see Specifications below). The physical interface (Base-T RJ-45 10/100/1000) on the PL1200 is either connected to the AUX port of the PLR or to a standard Layer 2 or 3 domain, where the PL1200 is addressed by the PLR to the IP address of the PL1200.

Deployment

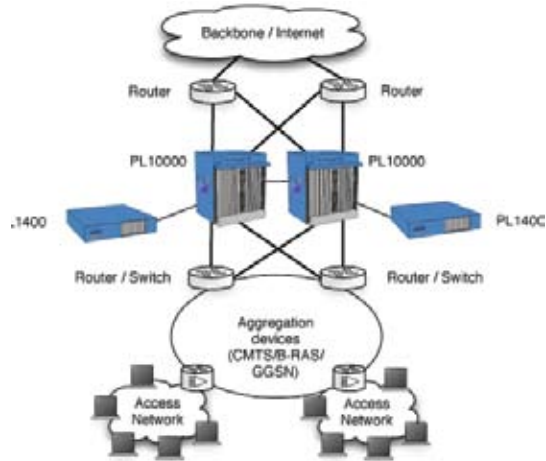
Data from multiple PLRs to one PL1200, or split up of data from one PLR to multiple PL1200, is possible. The number of PLRs per PL1200 depends on several

- **Granular and accurate** traffic statistics
- **Rack-mounted** Statistics server
- **Aggregation of data** from multiple PacketLogic (PLR) inline systems
- **Out-of-band deployment**
- **Direct connection** to PLR or remote over Layer 2/3 domain
- **Centralized aggregation** of Statistics summary

variables like number of users, number of connections, and CPS (connections per second). Please consult your Procera Networks representative or reseller for a recommendation.

PL1200 is either connected through a patch cable to the AUX port of the PLR, or a Layer 2 or 3 domain to a PL1200 in a remote location. A dedicated administration network can be used for sending data to a remote location.

Typical PacketLogic Deployment



Specifications	
Hardware	
Hardware	2 rack unit (RU), 19" rack-mounted
Physical Dimensions (not including handles and cable holders)	3.5" (h) x 17.63" (w) x 27.5" (d) / 8.7cm (h) x 44.8cm (w) x 69.8cm (d)
Power	100-240 VAC or 36-72 VDC
Weight	77 lbs / 35 kg
Interfaces	2 x RJ-45 BASE-10/100/1000 copper
Miscellaneous	
Modules	<ul style="list-style-type: none"> • LiveView – real-time traffic view • Statistics – traffic analyzing • Filtering – Layer 7 filtering and network protection • Traffic Shaping – bandwidth management • WebStatistics – web interface connecting into Statistics (above)
DRDL Signatures	<ul style="list-style-type: none"> • ~900 signatures (Jul-08)
Subscriber Authentication	Dynamic creation of per user NetObjects and assignment of current IP address through: <ul style="list-style-type: none"> • DHCP Snooping • Radius Snooping • Python API integration (w/ DHCP, AAA, LDAP, AD etc.)