

Precision EP600

www.dbamsystems.com

An Expandable element

Advanced IP traffic shaping and bandwidth management for small and medium enterprises

- Provides traffic monitoring, reporting and shaping;
- Controls traffic at the application layer;
- Enables Internet connection to be accurately sized;
- Controls IP connections and packets;
- Allocates valuable bandwidth resources on a user or user group basis;
- Improves VPN and VoIP Performance;



Precision EP600

In a converging world the LAN/WAN link is an increasingly vital business enabler. More than ever enterprises need to derive flexibility and consistency from the performance of their network asset.

Precision is the tool that delivers the network performance to match the need - today and in the future. Precision provides control of the link traffic ensuring that any business is able to regulate the way applications, users and devices utilise its network infrastructure. The potential and the value of the bandwidth asset are realised when the business designs and then commits valuable network resources to applications and users that are mission critical. Precision monitors, controls and reports how bandwidth is used – ensuring that the LAN/WAN utilisation is designed to fit the requirements of the business.

Exbander Precision is a feature rich appliance that includes the following functional modules:

Core Module	Description
- Active Flows	- Identifies the traffic flowing across the LAN/WAN link;
- Rate Watcher	- Monitors and displays real time flow rates for tuning, enabling intelligent decision making;
- Active Networks	- Integrates Active Directory to determine flow priorities for individuals and user groups;
- Rules	- Enables rapid creation of traffic rules (flow policies) and "borrow" levels;
- Criteria	- Enables bandwidth to be assigned to different resources;
- Inspector 7	- Layer 7 packet inspection Allows traffic to be identified by end user application;
- Statistics	- Logs and stores all data over user defined intervals for retrospective analysis;
- Processes	- Customisable network, extends control over network flows incl. address and port translation;
- Notifier	- Powerful alert system, pushing notifications of network events and flow rates;
- Compression	- For WAN Optimisation between two points (additional points are optional);
Option Modules	
- IM View	- An analysis module that allows administrators to view instant messaging traffic;
- MailView	- An analysis module that allows administrators to view POP, IMAP and SMTP traffic
- SQLView	- An analysis module that allows administrators to view SQL transactions;
- VoIPView	- An analysis module that allows administrators to view SIP, Skinny, H.323 VoIP signalling.

Precision EP600 in action:

Scenario: SMB with a 2Mb/s LAN/WAN link (Internet connection).

Problem: During ad-hoc periods of the day the LAN/WAN link speed dropped dramatically, impacting key business traffic. The business, via its IT partner, required a solution that enabled the business to:

- Identify all LAN/WAN traffic;
- Allocate and prioritise bandwidth for business traffic, and highlight patterns outside of base lined thresholds;
- Relegate the priority (or block) non-business traffic;
- Ensure that the service provider was delivering on their contract.

Solution: An option for the SMB was to increase its Internet connection, however in advance of changing the link size the IT partner installed a single EP600. This enabled the partner to design the performance of the LAN/WAN link. Empowered by the Precision unit, the network administration linked business-critical policies to network events ensuring application and network performance. The EP600 identified and regulated the mission critical traffic and relegated the private traffic. The existing link was found to be suitable for the business's requirements.

Configuration of the EP600 was easy and quick. The user defined the rules that governed the bandwidth by;

- Assigning the appropriate rules to individual users and Active Directory groups;
- Specifying the criteria which determine which flows are governed by a particular rule;
- Monitoring the current network traffic - including the size of flows, comparing the actual rates to those allocated, the related Layer 7 applications and the source and destination addresses;
- Associating processes with each of the rules, giving finer control over the flows passing through the system;
- Reviewing statistics for flows at earlier times;
- Receiving alert notifications if the flows controlled by a rule exceed a specified rate.

Shaping	EP600			
Shaping Rate – Total Throughput (in & out)	2Mb/s	4Mb/s	8Mb/s	16Mb/s
Shaping Circuits (Switches)	1 (+2)	1 (+2)	1 (+2)	1 (+2)
IP Flows	32,000	32,000	32,000	32,000
Maximum Static Partitions	1,024	1,024	1,024	1,024
Maximum Dynamic Partitions per Switch	1,024	1,024	1,024	1,024
Maximum IP Hosts	10,000	10,000	10,000	10,000
Configuration				
Precision Start UI	Yes	Yes	Yes	Yes
External LCD (+Keypad)	Yes	Yes	Yes	Yes
Hardware Specification – EP600				
Power: 110-240 Volt Auto Switching (internal)	Weight: Gross 5.6Kg; Net 3.6Kg			
Operating Environment:	Storage Environment:			
- Temperature: 5 to 40°C (67 to 130°F)	- Temperature: 0 to 70°C(58 to 184°F)			
- Humidity 20% to 90% RH	- Humidity 5% to 95% RH (non-condensing)			
Certifications: FCC, UL, CE;	LCD Panel: 2 X 16 Characters. LCD Module with 4 buttons;			
Dimension: 429(W) x 282(D) x 44(H)mm [16.89"(W) x 11.1"(D) x 1.73"(H)]	Packing Dimensions: 22.4" (W) X 17.3" (D) X 5.9" (H)			
ABN Expansion: Optional	Ethernet Port 5 x 32bit/33MHz Fast Ethernet ports			
Serial Port: - One DB9 (for system console)	Storage Device: - 3.5"HDD & CompactFlash			

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