

# Precision EP60

## An Expandable Element

### Advanced bandwidth management for remote offices

**Traffic Management for  $\leq 4\text{Mb/s}$  symmetrical;**

**Load balance up to 16 Internet connections;**

**DNS based load balancing for ingress connections;**

**Real Time Traffic Analysis;**

**Enhances MPLS QoS mechanism;**

**Real Time traffic Protection for VoIP, Video and Terminal Services;**

**Compression, reduce traffic by up to 400% between sites.**

**Traffic classification from Layer 1 to 7 (Time of day, VLAN, Application);**



**Expander Precision EP60**

EP60 is the tool that delivers the network performance and solutions to match the need - today and in the future. EP60 provides control and analysis of traffic ensuring that any business is able to regulate the way applications, users and devices utilise its network infrastructure. More than ever enterprises need to derive flexibility and consistency from the performance of their network asset. EP60 monitors and controls how bandwidth is used – ensuring that the LAN/WAN utilisation is designed to fit the requirements of the business. The EP60 is specifically designed for the multiple site enterprises that need to ensure the productivity of remote sites without having a IT administrator on site. The EP60 can be installed by simply inserting two Ethernet cables the remaining installation and configuration is automated.

**The EP60 product includes a feature rich PC appliance that has the following modules:**

Core Module	Description
- Active Flows	- Analyses the traffic flowing across the LAN/WAN link;
- Rate Watcher	- Real time displays of rule utilisation for tuning rule definitions, enabling intelligent decision making;
- Rules	- Enables rapid creation of traffic rules (flow policies) and "borrow" levels;
- Criteria	- Enables bandwidth to be assigned to different bandwidth rules;
- Inspector 7	- Layer 7 packet inspection Allows traffic to be identified by end user application;
- Processes	- Customisable network, extends control over network flows incl. DSCP mapping;
- Compression	- A traffic enhancement module for compressing traffic between 2 endpoints by up to 400%;
- EP Profile	- A configuration module enabling ease of maintenance and configuration;
Option Modules	
- WAN Acceleration	- An traffic enhancement module used increase performance of applications by up to 200% on slow links;
- EHS (Easy Hot Spot)	- A PC Application that links to an EP60 device enabling an Internet Hotspot service;
- User50/User100	- A licence that extends the maximum number of client devices that can be controlled by the EP60.

**Exbander Precision EP60 in action:**

**Scenario:** SMB with a 4Mb/s LAN/WAN link (Internet connection) with 40 remote sites on 1/0.5 Mbps all using windows file sharing and VoIP.

**Problem:** During periods of the day the LAN/WAN voice quality became very poor due to users transferring files. The business, via its IT partner, required a solution that enabled the business to:

- Reduce the impact of file sharing on voice quality;
- When there are no calls in progress allow the file sharing protocols to use the VoIP bandwidth. However when a call occurs reduce the file sharing traffic immediately;
- Relegate the priority (or block) non-business traffic;

**Solution:** An option for the SMB was to purchase a second line for each site and install additional equipment to separate the voice and data networks. However in advance of purchasing the second internet line for each site the IT partner installed a single EP60 in central network and a EP60 in each other site . This enabled a solution whereby voice traffic was assured performance and file transfer could still occur without fear of degrading voice quality. The existing infrastructure was found to be suitable for the business's requirements.



**Configuration of the EP60 was easy and quick by deploying XML profiles from the central site.**

Shaping	EP60
Shaping Rate – Total Throughput (in & out)	4Mbps
Shaping Circuits (Switches)	1
IP Flows	3072
Maximum Static Partitions	128
Maximum Dynamic Partitions per Switch	128
Maximum IP Hosts	24
Configuration	
Precision Start UI	Yes
Command line	Yes
SNMP	Yes
Hardware Specification – EP60	
<b>Power:</b> 110-240 Volt Auto Switching (external)	
<b>Operating Environment:</b>	
- Temperature: 0 to 45°C (32 to 113°F)	
- Humidity 5% to 95% RH	
<b>Certifications:</b> FCC, UL, CE;	
<b>Dimension:</b> 30(H) x 214(W) x 150(D)mm [1.81"(H) x 8.43"(W) x 5.91"(D)]	
<b>LAN bypass on LAN/WAN ports.</b>	
<b>Serial Port:</b> - One RS-323 DB9 (for system console)	

<p><b>DBAM Systems Limited</b>  <a href="mailto:sales@dbamsystems.com">sales@dbamsystems.com</a>    <a href="http://www.dbamsystems.com">www.dbamsystems.com</a>                  Tel: +44 (0)1924 887081</p>	<p><b>Distribution</b>                  Tekdata Distribution Limited                  Tel: 01782 665522    <a href="http://www.tekdata.co.uk">www.tekdata.co.uk</a></p>
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