

## Finally, a Bandwidth Management Solution that resolves critical issues around network performance.

Your network bandwidth is a critical consumable. Reliable, efficient use of critical bandwidth determines how well your distributed offices, business partners and customers use your Intranet and Internet business applications.

Sluggish and unpredictable performance of business critical applications like ERP and SCM can:

- \* Significantly lower user confidence in your network
- \* Lead to unnecessary doubts about investments in IT infrastructure
- \* Raise questions about management capabilities and service quality, all of which can have a debilitating impact on your business performance.

### Is non-business traffic undermining your network performance?

When users complain of poor application performance, or new application rollouts such as VoIP or video conferencing that fail to meet expectations, it's most likely due to 'non-business' traffic on your network undermining free flow of business data.

Most businesses have no means to control such non-business usage of network resources. To compound matters, non-business traffic is typically erratic and extremely unpredictable. Consequently, in the race for bandwidth, your most critical applications often end up literally sidelined.

### Shaping up to the problem

Network congestion can be better addressed through 'bandwidth shaping' - a technique that allows you to maximise efficient usage of existing bandwidth by:

- a) Helping you gain better visibility into bandwidth usage and
- b) Letting you define and control bandwidth allocation between various applications

### Protean™: Extend your existing network and bandwidth resources

- \* A real-time bandwidth management solution that empowers you with better visibility into your network and helps you gain control over bandwidth usage.
- \* Discover, analyse, manage and report on bandwidth usage by each and every business and non-business application thereby helping you align application performance with your business goals.
- \* Economical, simple-to-deploy and easy-to-use.
- \* Supports both centralised as well as distributed site deployment.

## HOW AVAILABLE NETWORK BANDWIDTH GETS USED.

AVAILABLE  
 NETWORK  
 BANDWIDTH

Often, networks can carry as much as 50% non-business traffic in most large, multi-location organisations

**BANDWIDTH INTENSIVE APPLICATIONS**  
 Image/File Transfers, streaming multimedia, e-mail.

**NON-BUSINESS TRAFFIC**  
 File Swapping, Surfing, Online Shopping, Music, Gaming.

**BUSINESS CRITICAL APPLICATIONS**  
 ERP, SCM, VoIP, Intranet.

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### DISCOVER

What types of traffic compete for your network bandwidth.



### ANALYZE

Traffic patterns to develop policies that provide predictable performance.



### MANAGE

Network resources to maximise throughput for critical applications.



### REPORT

Report trends and emerging requirements and track all critical service levels.

## FEATURES

Protean™ comes with several features that address typical issues confronting network managers.

### HOST OR NETWORK-BASED BANDWIDTH MANAGEMENT

Protean™ is capable of managing the bandwidth for individual hosts in a network or for the network as a whole. That is, you can set the assured and burstable bandwidth on a per host basis or per network basis.

### LAYER 4 PRIORITY

Protean™ can be configured to provide granular control of bandwidth used by different applications. For example, you can have different bandwidth restrictions set for HTTP traffic, mail traffic and SAP traffic to the same host/network. Using this technique for prioritisation, it's possible to reserve bandwidth for each of the mission critical applications. A facility to permit/control bursting is available.

### INGRESS AND EGRESS TRAFFIC MANAGEMENT

Protean™ can manage the bandwidth in both directions. That is different policies can be applied to ingress traffic and egress traffic on to the same host/network. This is crucially relevant to ensure that 'downloads' do not grab the available bandwidth.

### PLUG & PLAY: TRANSPARENT TO THE NETWORK

Protean™ operates in the Bridge mode. So no changes need to be done to the network configuration. With no extra hop needed, it helps in easy isolation in case of a problem.

### CONFIGURATION BASED ON HIERARCHY

Protean™ configuration supports hierarchies. That is, you can have different parent classes, sub-classes to manage the network bandwidth. Categories can be defined in a tree structure to aid in prioritisation.

### WEB-BASED MANAGEMENT

Protean™ comes with a web-based front-end that makes configuration and manageability easy. The web-management interface provides multi-level user access to the shaper. In case of a distributed architecture, Protean™ provides for centralised administration. Optionally, centralised analysis and reporting is possible.

### FLEXIBLE REPORTS

Protean™ can provide detailed reports regarding the bandwidth usage by different classes. These reports are available in various time frames; hourly, daily, weekly and monthly. The reports can give bytes transferred and the rate of transfer (maximum/minimum). This makes it an ideal IP auditing tool.

### TIME-BASED SHAPING

Business operations to upload files using FTP are often restricted to only certain time periods during the day. These specific requirements can be handled using the time-based shaping feature to provide for different policies for restricted time periods.

## SPECIFICATIONS:

Classes (in tree structure)	1024 (Max)
Networks	1024 (Max)
Bandwidth	45 Mbps (Max)
Network Connections	RJ 45 (100 Mbps)
Ethernet	Fast

**Sify**

MAKING THE INTERNET  
WORK FOR YOU

**PROTEAN™**

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