

# Traffic Shaping Engine

## TSE 3.2

The TSE is a low cost, highly effective, easily deployed, software based bandwidth management and monitoring package for Novell NetWare 4.x – 6.x servers.

### Effective

The TSE is a flexible system that regulates the flow of Internet, WAN, and LAN traffic, offering the most commonly needed features to classify, group, and manage network traffic. It provides the same relief from unwanted P2P traffic, bandwidth-hogging users, and virus related storms, without the high TCO of other solutions.

### Cost

The TSE costs only \$349 per server, far less than any other bandwidth management solution. You run the TSE only on the servers requiring bandwidth management features. For example: those acting as your Internet router, running Border Manager, etc.

### TSE vs Packeteer – Think TCO!

*The TCO for a Packeteer solution is normally 10 to 40 times that of a TSE based solution. Sure, products like Packeteer offer lots of features, beautiful reports, and so on. They also require you to buy into proprietary hardware, perpetual hardware and software maintenance contracts, deployment, and other costs. Since bandwidth management is mission critical, not a convenience, you'll need redundancy. You spend double to ensure high availability for your Packeteer infrastructure.*

The TSE runs on commodity Intel based hardware, can manage traffic on up to 8 interfaces simultaneously. The TSE allows you to afford to have multiple bandwidth management systems – yielding the level of redundancy you need without the expense.

It is all about results. The TSE can reduce the amount of useless, unwanted P2P traffic on your WAN and Internet connection. It can improve

response times for critical services. It can enforce daily or hourly bandwidth quotas per workstation.

### Leverage Existing NetWare Infrastructure

The TSE regulates the flow of network traffic passing through your NetWare server. Any NetWare server acting as a router can be used as a powerful bandwidth management system. The TSE also regulates the flow of traffic to and from your server. It works with all NetWare based services including Border Manager, NDPS, GroupWise, web based services like iFolder, iPrint, and so on.

### Perfect Complement to Border Manager

If you already use Border Manager for NAT, proxy and other services, the TSE is a drop-in solution that adds powerful bandwidth management features.

### The TSE Does The Impossible

The TSE actually manages traffic before NetWare “sees” it. You can monitor, log, capture, filter, or manage any traffic seen by your NetWare servers. To server and network administrators and technicians, the TSE is a powerful tool to handle packet filtering, logging, and capture tasks previously impossible on NetWare.

### Rule Based To Handle Complex Tasks

The TSE is rule based and can be used to perform complex tasks automatically. You can have the TSE learn which workstations are sending unwanted or dangerous traffic and then take whatever action you want: filter the bad traffic, filter all traffic from that workstation, capture it, audit it, or whatever you want.

## Free NDS / eDir User Identification Tool

The TSE comes with MAC2USER, a free address-to-user mapping tool. MAC2USER looks at the user's Network Address property as well as Novell's DHCP address objects to figure out who is using a particular IP or MAC address. The TSE can show this information in audit logs as well as the web status page, making it easy to see who did what when.

### Pricing

Pricing, excluding applicable taxes, in USD.	
Single Server License	\$349
5 Server License	\$1299
Enterprise Wide License Covers <i>all</i> servers in your enterprise worldwide.	\$2500

In addition, consultants can license the TSE for \$7500 per 50 servers spread between any of your customer sites. You provide the support for these customer.

### License Registration

The TSE is licensed for use on a single server. You must provide the server names for the servers on which you plan to use the TSE, a license code will be provided for each server. You will have 14 days to obtain and install the license codes, after that point the TSE will assume you are running it as an unlicensed demo copy.

### Server System Requirements

- Intel 486 or better processor
- NetWare 4.x, 5.x, or 6.x Server
- Minimum 4MB of free RAM
- 20MB of free RAM recommended
- Latest NetWare OS Patches recommended

### Management Workstation Requirements

- Windows 95, 98, Me, NT, 2K, XP
- Any means to copy files to / from servers

### Scaling Information

The TSE scales to handle active management or monitoring of up to 8 million simultaneous flows. A "flow" is defined by you, it can be all traffic to / from a given IP network, workstation, or individual TCP or UDP flows. Each flow requires 128 bytes. The following are guidelines; your server may use more or less RAM:

Additional RAM Used By TSE (MB)		
Workstations	Simple	Complex
1000	0	8
2000	4	16
5000	8	32
10000	16	64

### System Preparation and Installation Information

You normally do not need to make any special preparations to your server to install and configure the TSE. Typically the TSE can be installed, configured, and placed into production without any system or network downtime. Servers should be running latest NetWare OS Patches.

### Time and Expertise Required

The TSE requires a basic understanding of TCP/IP and IPX packet layout, as well as rudimentary understanding of If-Then-Else style programming, and the ability to read the manual. Typically 1 – 2 days is required to master the configuration tool, and learn how to best use the features of the TSE.

### Support and Maintenance

You are entitled to free updates to the latest TSE code for a period of 1 year from the date of purchase. You may receive support via e-mail for a period of 90 days following the date of purchase.

### Other Services, Consulting, Custom Development

On site or remote installation, configuration, and management services are available. Ask for details.

# TSE 3.2 Ordering Worksheet

All Prices In US Dollars

Per Server Licenses for Corporations and Academic Institutions <sup>1</sup>				
Item Number	Description	Price	Qty	Extension
TSE-320-EU1	TSE 3.2.0 Single Server License	\$349		
TSE-320-EU5	TSE 3.2.0 5-Server License Pack	\$1299		
TSE-320-EUE	TSE 3.2.0 Enterprise License Pack <sup>2</sup>	\$2500		
TSE-320-C50	TSE 3.2.0 Consultant 50-Server Pack <sup>3</sup>	\$7500		
Per Seat Licenses for ISPs and Students at Academic Institutions <sup>4</sup>				
Item Number	Description	Price	Seats	Extension
TSE-320-S1K	TSE 3.2.0 > 1000 Seats	\$0.70		
TSE-320-S3K	TSE 3.2.0 > 3000 Seats	\$0.55		
TSE-320-SAK	TSE 3.2.0 > 10000 Seats	\$0.40		
TSE-320-SBK	TSE 3.2.0 > 30000 Seats	\$0.25		
			Total	
Non Profit Institutional Discount 20% <sup>5</sup>			x .20	-
			Total	
Priority E-Mail Support 25% <sup>6</sup>			x .25	+
			Total	
Pennsylvania Organizations Add 6% Sales Tax <sup>7</sup>			x .06	+
			Total	

If none of the options above seem to fit your particular situation, please contact us.

<sup>1</sup> Licenses the TSE to be used on servers which will manage the bandwidth used by your employees and students. This form of license is NOT permitted for use by ISP's or others who manage the bandwidth of other customers or 3<sup>rd</sup> parties who are not employees or students of the licensee. The licensee is NOT permitted to resell, lease, distribute, or rent the bandwidth management services provided by the TSE to any 3<sup>rd</sup> party entity.

<sup>2</sup> Allows the TSE to be installed on any NetWare servers owned and operated by the enterprise for the purposes of managing the bandwidth of their employees and students.

<sup>3</sup> Consultant Packs require prior authorization to purchase. Consultant Packs do not include support services, end users are supported by the consulting organization, a maximum of 3 individuals at the consultancy may directly obtain support services from [www.TrafficShaper.com](http://www.TrafficShaper.com). Servers using the a Consultant License Pack license must conform to the limitations of the Per Server License as indicated above.

<sup>4</sup> ISP Per Seat Licenses require prior authorization to purchase, and a declaration from the ISP indicating the number of customers whose traffic will be managed. A seat license must be procured for each end user workstation capable of generating traffic to be managed by the TSE. Licensee of ISP class license is entitled to run the TSE on any servers necessary to manage their customers traffic.

<sup>5</sup> Available to institutions formally recognized as non-profit organizations by the countries in which they operate.

<sup>6</sup> Places your e-mail support incident ahead of all other non-priority e-mail support incident.

<sup>7</sup> We are required to collect sales tax on all transactions for which the buyer resides or operates their business in Pennsylvania.

## TSE 3.2 Ordering Information

Please use the Ordering Worksheet to calculate the cost of your license fees, including non-profit organization discount and applicable sales taxes.

### Mail your order to:

[www.TrafficShaper.com](http://www.TrafficShaper.com)

Robert Charles Mahar  
904 N. 19<sup>th</sup> Street  
Allentown PA, 18104

### E-Mail your order to:

info@TrafficShaper.com

### Order Online:

<http://www.Amazon.com/shops/trafficshaper>

### Important Information:

You MUST provide the name(s) of the file server(s) on which you will run the TSE with your order. This information MUST be provided so your license code(s) to be generated. You MUST also provide e-mail addresses of up to 3 technical contacts who will be the point of contact for technical support.

### Payments Options:

We accept (1) International Money Order, (2) Check drawn in US Funds through a US Bank and made out to "Robert Charles Mahar", (3) Credit Card payments through <https://www.PayPal.com> to [info@trafficshaper.com](mailto:info@trafficshaper.com), (4) Amazon payments via <http://www.Amazon.com/shops/trafficshaper>

We apologize but we can NOT directly accept foreign money orders or checks drawn on non-US banks. Please inquire at your local bank about how you can get an International Money Order or Check "drawn in US Funds through a US Bank." If you have any questions regarding payment for international orders, please email us today. It may be easier for international orders to use our Amazon.com zShop storefront.

### Purchase Orders:

We accept Purchase Orders from well established organizations.

### Refunds and Returns:

As indicated in the license agreement, the product is provided without warranty of any kind. You can download the trial version of the TSE to evaluate suitability for use in your environment. Refunds are solely at the whims of the [www.TrafficShaper](http://www.TrafficShaper) staff based on the particular situation.