



## Load Balancing

### Product Brief

**Achieve the same level of fault tolerance on the Public side of the Internet, that you have on your private network !**

TZO.com has been a leading provider of commercial grade, reliable, dynamic DNS services for over 10 years.

**TZO.COM**

TZO's existing customer base is spread across 70 countries. The commercially proven DNS infrastructure, TZO-NET is a redundant, fully meshed world-wide infrastructure residing at only A1 rated co-location facilities such as Savvis.

### Load Balancing

TZO-HA can also be configured to provide load balancing across **16** participating servers/IP's. Even if they are in different geographic areas, TZO-HA can distribute the traffic across the server farms.

### Weighted Server Priority

You can specify that each server handle a certain percentage of traffic or DNS requests, directing more requests to the more robust servers, yet continue to balance the load among the active server locations.

### "Intelligent" round robin

When a server fails, TZO-HA removes it from the rotation however it continues to monitor all the servers. When the server is back online TZO-HA automatically returns it to the rotation and restores your originally specified weight to each server.

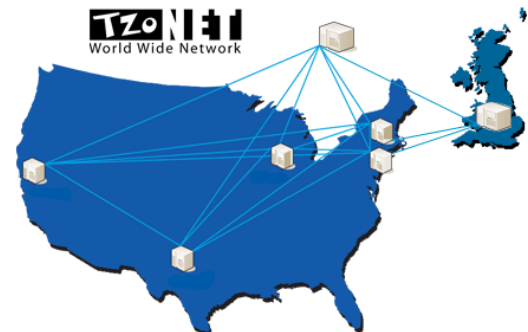
**No Hardware to Deploy**

**No Software to Configure**

**It's a Service – Turn it on,  
And it Works!**

- In Bound Load Balancing
- Percentage Based Load Balancing
- Degraded Server Awareness
- Guaranteed SLA's
- Session Persistence
- Immediate Notification
- Web Based Control Panel

**TZO-HA eliminates typical DNS propagation delay!**



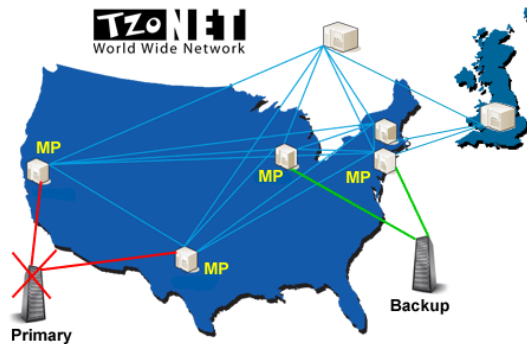
TZO maintains six redundant DNS server locations across North America and Europe. These sites are connected through six different major Internet backbones. This ensures that all DNS records are protected against any geographic disruption and against the failure of any one primary Internet backbone.

## A Fraction of the cost of HW based Load Balancers

TZO-HA performs many of the same functions of hardware devices costing 20 to 80 times more. Because it's a service TZO-HA does not require the same level of training and cost of maintenance that a hardware or software implementation requires.

## TZO-HA provides for various notification mechanisms

Notification of a server outage is immediate, and can be delivered in a number of formats. For any TZO-HA action, many notification options are available. Standard email, pager, text message, or what ever makes sense for the implementation.



### MPM, Multi Point Monitoring.

TZO-MPM™ allows for the definition of 1, 2, 3 or more monitoring locations all testing the availability of a defined server. Multiple monitoring points (MP's) are crucial for highly available environments.

### Session Based Persistence

Session based persistence is a methodology that ensures when a session is started and is directed to a participating server and the session will remain on that server as long as that server is operational. When session based persistence is enabled, new sessions or transaction that first enter the DNS load balancing arbitrator will resolve to one of the participating load balanced servers. In the example, MyDomain.com 1.1.1.1 MyDomain.com will also need to have defined a sub-domain for the purposes of web forwarding. For example, xyz.MyDomain.com

1.1.1.1, as additional DNS queries occur throughout the session, they will be directed to this record, thereby resolving to the original server, 1.1.1.1.

### Degraded Server Action

TZO-HA has the ability to detect a server in a degraded state. Our monitoring function can also calculate round trip time and time of execution for the monitor agent. A base line is established, whereby if a monitoring process for a given server exceeds a pre-configured number a server can be defined as in a degraded state. TZO-HA can notify on this event as well as apply a preconfigured percentage number to reduce the amount of traffic being sent to the degraded server while still allowing it to participate in the Load Balancing scheme.

### Browser Based Control

A secure web-based Control Panel allows complete control over the TZO-HA service. A version of the Control Panel runs on any hand held PDA with Internet access and a web browser supporting SSL for remote access to the TZO-HA controls.

### TZO-HA complements existing load balancing devices.

If you're using a load balancing device at one or more of your installations, TZO-HA can balance the load among your locations while your load balancing device can balance the load within each location. Using TZO-HA to augment your hardware load balancing devices protects against failure of the load balancing device and protects against the loss of connection to one or more of your data centers.

### Protocol Monitoring

TZO-HA can monitor different protocols, HTTP, HTTPS, SMTP, FTP, TELNET, PING (ICMP) and POP3. By request other protocols can be added.

TZO.com  
78 Main Street  
Pepperell, MA 01463  
Phone (978) 433-6865  
Email: [Sales@tzoha.com](mailto:Sales@tzoha.com)  
URL: [www.autofailover.com](http://www.autofailover.com)