



# Global DNS Traffic Management

## Product Brief

***No Hardware to Deploy***

***No Software to Configure***

TZO has been a leading provider of commercial grade, reliable, dynamic DNS services for more than **15 years**. No one else comes close to our mature feature base and reliable performance.

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

## Geographic Load Balancing

Geographic load balancing deployed entirely as a service has revolutionized the global load balancing industry. With no hardware to deploy and no software to configure, TZO-GEO offers a level of simplicity and cost reduction which has never been available for global traffic management.

## Global Awareness

With "N" number of participating servers or IP addresses, as an inbound DNS query comes in to the TZO DNS infrastructure, we lookup the Source IP address of the DNS query. We then match that source IP to a database of IP addresses and geographic longitude and latitude definitions. When a geographic location is found for the source DNS query IP address, we then calculate which of the participating servers is closest in proximity to the originating DNS query. This all happens in milliseconds and poses no detectable latency to the standard DNS query.



- Global Load Balancing
- Geographical Awareness
- Degraded Server Awareness
- Guaranteed SLA's
- Session Based Persistence
- Immediate Notification
- Web Based Control Panel

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



TZO maintains an **ANYCAST** infrastructure with twelve redundant server sites in locations across North America, Europe and Asia-Pacific. 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-GEO performs many of the same functions of hardware devices costing 20 to 80 times more. Because it's a service TZO-GEO does not require the same level of training and cost of maintenance that a hardware or software implementation requires.

## TZO-GEO provides for various notification mechanisms

Notification of a server outage is immediate, and can be delivered in a number of formats. For any TZO-GEO action, many notification options are available. Standard Email, Pager, text message, or whatever makes sense for the implementation.

## Virtual Traffic Manager



## Drag and drop GEO server locations

### Virtual Traffic Manager

The new Virtual Traffic Manager (VTM) provides a Global Server View and allows for an immediate visual representation showing the exact location of your servers and their status. Based on Google Maps, zoom in and zoom out capabilities make for simple management of your environment. Whether you're using physical or virtual locations, VTM allows for drag and drop server placement. Lat-Lon definitions are automatically changed and immediate traffic manipulation can be seen via the Global Traffic View reporting tools.

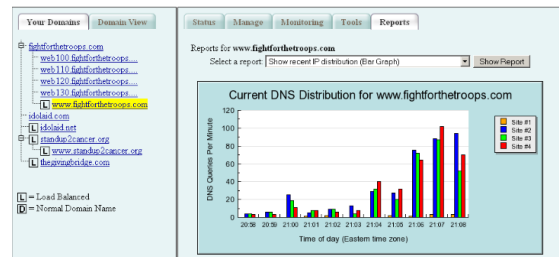
### Degraded Server Action

TZO-GEO 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

can be established, whereby if a monitoring process for a given server exceeds a pre-configured number, the server can be defined as in a degraded state. TZO-GEO can notify on this event as well as apply a preconfigured number to reduce the amount of traffic being sent to the degraded server while still allowing it to participate in the Load Balancing scheme.

## Global Traffic View

The control panel allows for real time visibility into exactly how traffic is being managed.



## Browser Based Control

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

## TZO-GEO complements existing load balancing devices.

If you're using a load balancing device at one or more of your installations, TZO-GEO can balance the load among your locations while your load balancing device can balance the load within each location.

## Protocol Monitoring

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

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