



Envoy™

Make Your Network Reliable and Available

Ensure Business Continuity with Geographic Server Load Balancing

Features

- Load balance internet traffic across data centers
- Geo-based distribution - Send users to the closest data center
- Fail over to backup sites automatically
- Distribute traffic by administrator defined policy
- Fully integrated with Equalizer EQ/OS management

Benefits

- Take full advantage of distributed application infrastructures
- Accelerates end user response time
- Delivers disaster recovery for application servers
- Seamless user experience for local and global load balancing
- All local and global server traffic management accomplished with a single, easy to use web interface

Benefit from Global Server Load Balancing

Equalizer Server Load Balancing (SLB) brings scalability to the data center. Global Server Load Balancing (GSLB) brings scalability across multiple data centers and Wide Area Networks. Envoy™ is software enabled GSLB for Equalizer that solves the complex problem of inter-site traffic management by directing traffic according to the following business defined policies

- **Availability:** If a site is unavailable due to network outage, server failure, or any other reason, Envoy stops directing requests to that site and directs traffic to live sites.
- **Performance:** Envoy tracks the load and performance at each datacenter and uses this information to determine the site that can process the request most efficiently.
- **Distance:** Envoy notes the network proximity of clients and data centers and directs clients to sites offering the least network latency.

Easy to Deploy

Coyote Point's Envoy leverages DNS to add Geographic Server Load Balancing capabilities to the Equalizer Application Load Balancing family. Envoy's integrated local and distributed load balancing is as an option on the E350Gx and E450Gx and comes standard on the E650Gx.

Envoy was developed to simplify network disaster recovery and inter-site failover by replacing complex routing protocol based solutions like BGP with a user friendly solution based on the Domain Name Service. When clients and local name servers resolve your site's host name to an IP address, Envoy uses its knowledge of site performance and network proximity to return the IP address of the best available site. Users experience the highest possible application performance and availability with absolutely no configuration changes at the client.

Disaster Recovery and Seamless Failover

Scaling services or applications geographically mitigates risk, but performance may suffer. Envoy is designed to maintain application performance by routing users to the server best equipped to process their requests anywhere in the network. If there's a network outage, server failure or other disturbance, Envoy ensures availability by engaging surviving sites seamlessly.

Coyote Point's sophisticated Geographic Query Protocol™ enables wide-area redirection for every client request without adding latency. Traffic is directed to multiple data centers according to policies matched against real-time performance and availability metrics from each data center. Envoy chooses the best destination for each new request ensuring the highest performance as you scale your applications.

Eliminate Risk

Equalizer and Envoy can be configured in a fault tolerant configuration with a redundant Equalizer in hot standby. Network administrators can confidently deliver mission-critical service or applications with 100% availability. Users are never impacted by unavailable network resources including complete data center outages, individual server outages, or application failures.

Predictable, Reliable and Consistent

The bottom line for any business is making sure services are predictable, reliable and consistent. Offering that quality of service means having an infrastructure that can deliver under any circumstances. Envoy delivers on that commitment.

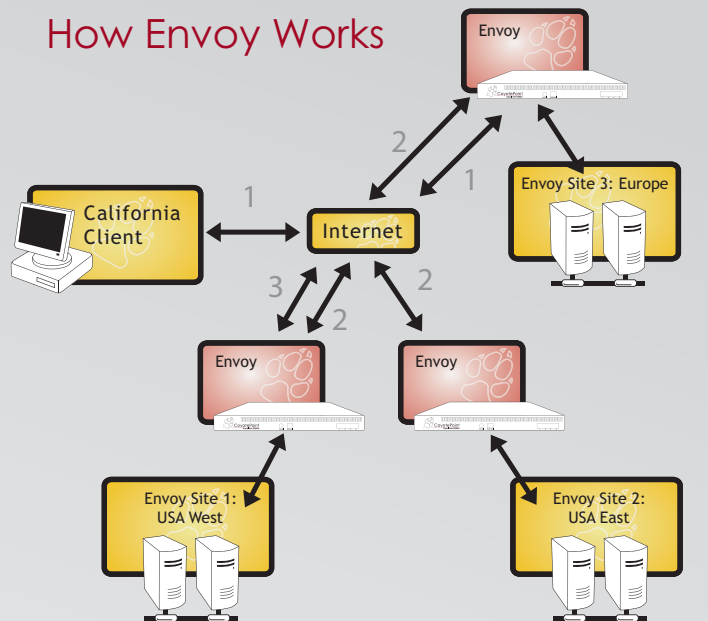


ENVOY

geo load balancing

Envoy

How Envoy Works



1 Client's DNS server queries Envoy at any Envoy site to resolve hostname.

2 Envoy sends a Geographic Query Protocol to each site and each one responds with resource availability and client proximity metrics.

3 The client is sent to the closest, most available site.

Envoy is a powerful Global Server Load Balancing (GSLB) tool that complements Coyote Point's Equalizer Application Load Balancing platform. Lightweight and streamlined, Envoy is an intelligent DNS server that is extremely scalable, reliable, secure and easy to use.

Continuously gathering performance and availability metrics from each data center, Envoy ensures application availability and appropriate server capacity before directing traffic to a particular site.

Coyote Point's sophisticated Geographic Query Protocol™ creates fine-grained wide-area redirection for every client request without introducing latency.

Let us hear from you.

An industry pioneer, Coyote Point has been at the forefront of application delivery since 1999. For more information, contact your local reseller, visit www.coyotepoint.com or call (877) 367-2696.

Envoy Specifications

DNS throughput: 10,000 lookups/second
Standards: RFC1035, RFC1912, RFC3364
Record types supported: A, AAAA, MX, NS
Sites per Geocluster: 100
Triangulation supported: ICMP

Envoy is available as a site licensable feature on Coyote Point's Equalizer E350Gx and E450Gx and is included with the E650Gx.

Envoy Configuration Options

Envoy can be fully configured via Equalizer's Web-browser control panel using these geographic load balancing criteria:

- Server/Client network proximity or latency.
- Site-wide service availability.
- Site-wide cluster load - directly measured by Equalizer.
- User-defined site weighting.

Redundant failover is fully supported with a secondary Equalizer. And activity logs are recorded and displayed in an easy-to-understand graphical format.

Standby disaster recovery sites are fully supported. A standby site will receive client traffic only when no other site is available.

Envoy is fully integrated with Coyote Point's VLB Advanced Virtualization Management tools. Envoy events can be used to trigger VLB actions such as starting, stopping and migrating virtual servers.

Management Interface

Envoy is easy to install and configure. It plugs right into your existing network infrastructure. As a software add on to Equalizer it uses a single easy to use graphical interface for all your traffic management. The result is simplified traffic management and elimination of all single points of failure.

