Achieve non-stop availability and higher application performance with Coyote Point's award-winning Equalizer application delivery solutions

Since 1999 Coyote Point has set the standard in load balancing and application delivery solutions at price points most organizations can easily afford. From simple server load balancing to enterprise-grade global traffic management, Coyote Point can meet the needs of almost any web-based application. You can find Coyote Point solutions in companies of any size, up to the largest of Fortune 500 firms including USA Today, Motorola and Comcast.

The entire Equalizer line-up of hardware and virtualization solutions meets or outperforms competitive products costing up to 3 times as much. You pay for what you need and don’t have to buy option after option to get a solution that fits your business requirements. The award-winning Equalizer product line has long been recognized for its rock-solid reliability, ease of setup and intuitive management tools. Plug in an Equalizer and it provides years of worry-free service.

FEATURES
- Basic load balancing through advanced L7 traffic management
- Hardware and virtual appliance options to meet your needs
- Full support for Microsoft®, VMware® and most standard business applications
- Class-leading SSL acceleration and data compression
- Advanced Global Server Load Balancing for seamless disaster recovery
- Smart Event Automation for virtual and physical resource control
- Full IPv6 support, including 6-in-4 Tunneling to ease the transition to IPv6
Reliable and robust load balancing and application delivery

At its heart, the Equalizer is a tried-and-true load balancer that can support almost any web-based application. From simple L4 TCP and UDP to advanced L7 HTTP and HTTPS, Coyote Point can provide basic load balancing to precise content switching with L7 Match Rules (AF). Equalizer gathers real-time information about a server's status using ICMP Probes, TCP Probes, Active Content Verification (ACV) and Server Agents to route traffic based on easily configurable business rules. All Equalizers support persistence using either cookies or IP addresses to reliably maintain server connections for your more advanced applications.

In the event that servers in a server pool are unable to satisfy a client's request, Responders (AF) can be assigned to L7 Match Rules to redirect users to another URL or display a custom message.

High Availability for 100% application uptime

Mission-critical applications need mission-ready solutions. Coyote Point's 3-tier approach to application uptime means your applications are up and running with 5-nines reliability. The first tier is a server or application failure. If a server or application fails or becomes overloaded, Equalizer routes traffic automatically to healthy servers. For the second tier, Equalizer supports failover options to cover you should an Equalizer go down. Finally, the third level provides routing to an alternate data center(s) should your primary data center suffer a catastrophic or planned outage (see the “Disaster recovery with Global Server Load Balancing” section for more information on multiple data center traffic management).

Equalizer supports Active/Passive, Active/Active, N+1 or N+M failover configurations. Coyote Point’s Multi-Active N+M Failover (AF) allows a cluster of active Equalizers to share the workload for a large application data center. Instead of requiring idle spares in standby mode as in other failover methods, Multi-Active N+M Failover puts all the Equalizers to work load balancing and delivering applications. If an Equalizer in the N+M cluster should fail, the others seamlessly pick up the workload until you or your team can get the failed Equalizer back online.

Disaster recovery with Global Server Load Balancing

Envoy Global Server Load Balancing (GSLB) makes your network reliable and available by scaling applications across multiple data centers for disaster recovery or to improve application response times. Administrators can set up rules that direct traffic based on site availability, data center performance and network latency.

Coyote Point offers three options for Envoy. You can choose a software module for Equalizer, a standalone hardware appliance or a standalone virtual appliance. Envoy SAE, the standalone hardware or virtual appliance, offers additional features not available in the Envoy software module. It is designed to accommodate complex network structures including resolution directly to local or host-based application servers. Using SNMP health checking (AF), Envoy SAE fully integrates with ADCs from other manufacturers including F5, Citrix and A10 Networks.

Advanced networking support

Coyote Point's Equalizers use Network Address Translation (NAT), Source NAT, Outbound NAT and spoofing to effectively and efficiently route traffic between clients and servers. With support for direct server return, Multi-Gateway (AF) and Multi-Netting (AF), Link Aggregation (LACP), IPv6 routing, NTP and tagged VLAN support (AF) for up to 4094 802.1Q VLANs, you get the flexibility you need as your network topology evolves without having to buy new equipment.

Are you ready for the transition to IPv6? Coyote Point can make it easier with 6-in-4 Tunneling (AF) supported on all Equalizers. Through the use of a tunnel broker, you can assign IPv6 addresses to your server clusters making them available to any client on an IPv6 network.

Equalizer provides the ability to configure routing to match network topologies from the simplest to the very complex through Policy-based Routing (AF). You can define routing behavior for each subnet, based on either destination IP address or source IP address of packets traversing Equalizer.
Blazing fast SSL offloading and compression

All Coyote Point Equalizers support SSL offloading to relieve your servers from the computational workload of SSL/TLS session negotiation, encryption and decryption, letting them instead focus on the applications they were meant to serve. Some models come equipped with hardware-based acceleration.

Not all applications were written with SSL in mind and many scale poorly when SSL is enabled. Coyote Point's SSL offloading eliminates these problems with an easy to deploy acceleration solution. Processing is moved from your servers to Equalizer making applications significantly faster and secure without software or other intrusive changes.

Coyote Point incorporates a dedicated hardware-based Gzip HTTP compression processor into some models for content-rich applications. You can compress server generated data up to 5 times before it's delivered to a client using any modern web browser saving you bandwidth costs and improving response times to your users.

Automate routine tasks to take control of your applications

Equalizer's Smart Control framework with Smart Control Automation (AF) manages notifications, logging and corrections to your application environments. Intuitive construction of graphical or CLI-based rule sets let you configure responses to almost any condition including resource management to power up or power down IPMI-compliant servers in response to changes in demand.

Virtual platform support

If you're looking for a comprehensive set of tools to manage your VMware environment, Coyote Point has you covered. Every Coyote Point Equalizer supports VMware load balancing using VMware's management API to retrieve real-time virtual server availability and resource utilization from a VMware vCenter console. With Coyote Point's Smart Control Automation (AF) you get even deeper integration into VMware with the ability to load balance based on VM CPU and VM RAM and spin-up or spin-down VMs in response to demand.

Coyote Point's OnDemand product line-up offers virtual versions of Equalizer and Envoy SAE for load balancing and GSLB. You get to choose either hardware or virtual appliances for 100% flexibility to fit your needs. All our virtual products are available for a free 30-day trial to let you test them in your environment before you buy.

Features to keep your applications safe and secure

Equalizer intelligently controls your SSL traffic with advanced features like SSL Certificate Revocation Lists (AF), Global Object SSL Certificate Storage (AF), outbound HTTP to HTTPS URL rewriting and Cipher Suite Control.

Guaranteed application support

From basic static websites to enterprise Microsoft® Exchange installations, Coyote Point's Equalizer can support virtually any internet-based application. Easy to follow deployment guides are available for the top Microsoft® applications including Exchange, SharePoint® and Outlook Web Access.

Included Global Server Load Balancing (GSLB)

All Equalizer load balancers and application delivery controllers include Coyote Point's Envoy Global Server Load Balancing. Using DNS-based resolution, Envoy routes multiple data center traffic based on network latency, server health, traffic volumes or with custom business rules.
Flexible management and comprehensive reporting

Do you prefer a command line or an intuitive graphical user interface? Either way Coyote Point provides the tools you need to easily manage your Equalizer. The context sensitive CLI provides complete control of every aspect of your Equalizer, not just a subset of functions like some other manufacturers. Even if you're a CLI-jockey, you'll appreciate the thought-through layout and features of our graphical user interface for most tasks from setting up server pools to running sophisticated traffic reports. If you'd rather manage your Equalizer from another device or application, Coyote Point's REST API gives you the flexibility you need.

Equalizer's **Role-based management (AF)** gives you the flexibility to establish multiple users and groups allowing it to be managed by one or more data center personnel. As the administrator, you can assign read, write, create and delete permissions to individual users or groups to give as little or as much control over your Equalizer to fit the needs of your organization.

Equalizer GUI Welcome Screen

Sample of a TCP Cluster Configuration Summary Screen
Equalizer Products/Platforms

Equalizer load balancing and application delivery products are built with the needs of small and medium enterprises in mind to offer you the performance and features you need at a value that can't be matched. Coyote Point's solutions range from entry-level load balancing to multi-site enterprise-grade traffic management.

**E250GX**
- **Reliable and affordable L4-7 server load balancing**
- Ideal for small and medium businesses, the E250GX delivers 100% uptime for mission critical applications while staying within your budget.
  - 1.2 Gbps L4 throughput
  - L4 and basic L7 load balancing
  - Supports high availability deployments
  - Affordable for almost any business

**E370LX**
- **Intelligent, high performance L4-7 traffic management**
- Coyote Point's workhorse ADC for organizations that value performance and reliability. Great for Microsoft Exchange and SharePoint deployments.
  - 4.8 Gbps L4 throughput
  - Robust L4 and L7 load balancing
  - Advanced L7 application management
  - Software based SSL offloading up to 7,500 TPS

**E470LX**
- **The secure applications powerhouse**
- The E470LX was built with e-commerce and secure applications in mind. With advanced SSL features, you can dramatically reduce SSL certificate costs and management.
  - 8.0 Gbps L4 throughput
  - SSL hardware acceleration
  - Optimized for e-commerce and secure applications
  - Great for secure Microsoft environments

**E670LX**
- **Enterprise-grade performance, Coyote Point Value**
- With best-in-class performance, the E670LX leads the pack with features like hardware-based SSL acceleration, and HTTP Gzip compression.
  - 10.0 Gbps L4 throughput
  - SSL hardware acceleration
  - Gzip HTTP hardware compression
  - Great for enterprise departmental applications

**E970LX**
- **Built for the Data Center, Priced for the Finance Department**
- A data center grade ADC with blazing fast performance. With features like hardware based SSL acceleration, HTTP Gzip compression, dual hot-swappable power supplies and fans, the E970LX great for hosting and enterprise applications.
  - 13.0 Gbps L4 throughput
  - SSL hardware acceleration
  - Gzip HTTP hardware compression
  - Hot-swappable power supplies and fans, lights-out management

**Equalizer OnDemand**
- **An enterprise-grade virtual ADC when you need it**
- A software-based virtual appliance deployed as a single virtual server instance dedicated to load balancing and application delivery.
  - Same features as hardware Equalizer appliances
  - Includes Smart Control Automation and Envoy GSLB
  - Runs on VMware ESX/ESXi v4.X and v5.X
  - Free 30 day trial
## Equalizer Product Line Comparison

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<th>E370LX</th>
<th>E470LX</th>
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### LOAD BALANCING

- Protocols: L4 TCP/UDP, L7 HTTP/HTTPS
- L7 Match Rules: Yes
- Envoy GSLB: Included
- Smart Control Automation: Included

### NETWORKING

- Untagged/Tagged (802.1Q) VLANs: 2/4094, 6/4094, 10/4094, 14/4094
- Direct Server Return: Yes
- Outbound NAT: Yes
- Policy Based Routing: Yes
- IPv6 Tunneling: Yes
- Link Aggregation (LACP): Yes
- Multi-netting: Yes
- Multi-gateway: Yes

### HIGH AVAILABILITY

- Failover: Active/Passive, Active/Active, Active N+1 and Multi-Active N+M
- Responders: Yes
- Hardware:
  - CPU: Single core / Dual core / Dual core / 6 core / 8 core / N/a
  - Memory: 512 MB / 2 GB / 2 GB / 4 GB / 4 GB / N/a
  - Hard Drive: 512 MB CF / 120 GB SSD / 120 GB SSD / 120 GB SSD / 120 GB SSD / N/a
  - Gigabit Ethernet (RJ45 Cu): 2 / 6 / 8 / 8 / N/a
  - Gigabit Fiber SFP + (10 GB): 0 / 0 / 2 / 2 / N/a
- Power: 110 VAC/29W, 220 VAC/145W
- Dimensions: 438x45x267 mm
- Weight: 7 lbs (3.2 kg)
- Operating Temperature: 40-105 F, 5-40 C
- Operating Rel. Humidity: 5-90%, non-condensing
- Warranty: 90 days
- Support Included: 90 days Basic
- Certifications: FCC, CE, RoHS

### Envoy SAE and Envoy OnDemand SAE

Based on Coyote Point’s Envoy GSLB module for Equalizer, Envoy SAE and Envoy OnDemand SAE offer a standalone GSLB appliance to bridge multiple sites for disaster recovery.

- Full SNMP-based interoperability with 3rd party ADC manufacturers
- Direct server resolution
- Up to 10 GeoSites on one Envoy SAE appliance

### Equalizer and Envoy SAE OnDemand Information

- Equalizer and Envoy SAE OnDemand run as a guest VM under any VMware Hypervisor™ that supports Version 7 virtual machines. They have been tested on the following VMware products:
  - VMware ESX 4.1
  - VMware ESXi 4.1, 5.0, 5.1
  - VMware Fusion 3.1.2, 3.1.3
  - VMware Player

- Each instance of Equalizer or Envoy SAE OnDemand requires the following hardware resources:
  - 1GB RAM (in addition to RAM required for the host platform); supports up to 2 GB and 4 CPUs
  - 1GB free disk space
  - 1 VMware supported 10/100/1000Gb Network Adapter; supports up to 16 NICs
  - Internet connectivity for license validation
  - See VMware’s specific requirements for the VMware product you are using.

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