

About Coyote Point

Real-world solutions without surprises.

Coyote Point offers real-world solutions to real-world Internet traffic management challenges. With Coyote Point, you can do more for less — because we cost up to 75% less.

There are no huge installation fees or extended deployment schedules. Products perform as advertised. You won't have to complete a training course to use them, either. In fact, Coyote Point is the seamless, affordable, and easy way to:

- Improve application delivery ROI.
- Cut website risk.
- Curb network-failure.
- Optimize Web and Application performance.
- Protect your brand.
- Guard your reputation.
- Offload bandwidth-draining SSL processing.
- Deliver geo-intelligent content.
- Exploit e-business opportunities.
- Deliver a secure, scalable, available network.
- Ensure business continuity.
- Maximize revenue.

Easy, affordable, fault-free.

We couldn't make these claims if they weren't true. Basically, it all boils down to this: we can help you avoid bad decisions because we offer a product suite that balances price with performance and utility. And our customers say it's something we do well.

Unlike competitors who market several different products under a single brand, Coyote Point focuses on our core business: load balancing and traffic management. That means you'll have robust and affordable local, regional and global network solutions. You'll also have exactly what you need, not what some ivory-tower developer *thinks* you need.

Long story short, our business lets your business prosper – without a bunch of surprises.

From basic configurations to intricate distributed networks, we're enterprise-ready – and that means easy to install, easy to use, and even easier to manage. No matter what Internet protocol or operating system is on the table.

It's the right solution.

Please contact your local Digica representative for more information on how Coyote Point can empower your physical and virtual environments to get more out of your technology. 1-877-344-4223 or info@digica.ca

If you have 15 servers, you can increase capacity 25% with four new servers. Or, you can get the same increase with a single Coyote Point Equalizer. That's 25% more capacity for 25% of the cost of adding new servers.

Where we come from, that's the right way to measure your data center's ROI.

Digica is one of Coyote Point Systems' largest partners across North America, and has deployed some of the most complex solutions for our customers.

When choosing a Coyote Point partner, smart organizations choose Digica Solutions.



ENVOY
geo load balancing

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Product Overview

Focused on high application availability and performance

Coyote Point is singularly focused on providing application aware server load balancing and application acceleration solutions. Our mission is to help you provide the highest levels of availability and performance of your mission critical applications. Our Equalizer appliances provide application delivery solutions to over 8,500 businesses, many of whom share your challenges. We invite you to use the tool above to help identify the solution that is right for you.

Our tradition of affordable solutions

From our very beginning we have purpose-built the Equalizer appliances to be an affordable family of products offering a versatile combination of traffic management features for load balancing, application acceleration, high availability, HTTP Web Compression, SSL Offload & Acceleration, Global Server Load Balancing, Fault Tolerance, Disaster Recovery, Virtualization and Clustering.

Coyote Point products ensure fast connections and fail-safe access to Web sites/servers and other internet and intranet applications. We continue to add key functionality in response to our customers' needs, building on our reputation for performance, affordability and ease of use.

vmware® | enterprise
PARTNER

Digica Solutions is a vmware enterprise solutions partner, and has many years of combined experience to integrate your Coyote Point solution in a virtualized environment utilizing Coyote Point Virtual Load Balancer (VLB) technology.

Products

Coyote Point Systems Products Overview

Equalizer™ Hardware Platforms



E250GX

- Entry level L4-7 Load Balancer
- 2 Gigabit Ethernet ports
- Perfect for basic Load Balancing tasks
- MSRP \$1,995



E350GX

- L4-7 traffic manager
- 12 Gig-E ports
- VLB Basic
- Optimized for SME
- MSRP \$6,495



E450GX

- L4-7 traffic manager
- 12 Gig-E ports
- Xcel SSL Acceleration
- VLB Basic
- Optimized for E-Commerce
- MSRP \$10,195



E650GX

- L4-7 traffic manager
- 22 Gig-E ports
- Xcel SSL Acceleration
- Express Web Compression
- Envoy Global Load Balancing
- VLB Advanced
- Optimized for Data Centers
- MSRP \$14,395

The Equalizer line includes 4 hardware platforms; The E250GX, E350GX, E450GX and E650GX.

Each of these systems is built for a unique customer environment; performance and features are tailored to fit. Understanding which Equalizer product is best for your customer's needs requires an understanding of their application traffic, throughput, transactional requirements and connectivity needs. Use the [performance matrix](#) as a guide to to Equalizer features and capabilities.

Companies today rely more and more on applications and services delivered via the web. There are three primary benefits you can offer them with Coyote Point Systems application load balancers:

1. High Availability
2. Higher Performance through Acceleration.
3. Easier Management

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High Availability

Providing high availability for web services is one of Equalizer's key benefits, whether in a standalone, failover, or geographically distributed configuration. The Equalizer makes sure mission critical applications are available by monitoring servers and applications to insure that users are sent to the best performing and available servers for each request.

Equalizer appliances can be configured in a fault tolerant configuration with a redundant Equalizer appliance as a backup in hot standby. When a server goes down, Equalizer continues to route traffic to the other servers in the cluster, without any interruption of service. This allows network administrators to eliminate single points of failure to deliver maximum performance for any mission-critical service that requires 100% availability.

With two Equalizers running in Failover mode, High Availability is enhanced by running one Equalizer in active mode while the other Equalizer waits to take over if a failure occurs. Configuration changes are automatically synchronized between the two machines To provide active-active failover using the optional Envoy product. If one Equalizer (or an entire datacenter) becomes unavailable, Envoy continues to route traffic to the remaining active sites with no delay.



High Performance & acceleration

The EQ/OS GUI provides administrators with a centralized system from which to view application performance. But visibility and management are only part of our performance story. Equalizer load balancers accelerate applications by sending traffic to the application running on a server that offer the fastest response. We do this through load balancing policies that intelligently distributing user traffic to the fastest responding, and least loaded server.

Ecommerce applications and other environments requiring HTTPS/SSL security benefit from hardware accelerated SSL offload available in the E450GX and E650GX. The E450GX can process up to 8,500 HTTPS requests per second, which amounts to a 50X performance boost over standard server hardware.

When customers have a need for superior application performance Coyote Point's Equalizers offer performance at Gigabit speeds. The E650GX flagship Equalizer provides bandwidth saving GZIP compression at speeds of up to 1Gb/s.

Environments involving Complex applications require Intelligent Traffic Management. Equalizer EQ/OS offers Intelligent content switching, adaptive load balancing and Smart Rules making Coyote Point's appliances robust and flexible application management solutions.

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Easier Management

Equalizer load balancers from Coyote Point quickly become the focal point for managing applications. The EQ/OS GUI is truly a dynamic, easy-to-use management tool with very intuitive Web management interface including installation and management wizards. We provide a consolidated view of statistics, real time status, and alerts for the servers and applications that flow through the Equalizer.

Equalizer can monitor AND control servers and applications via advanced techniques like Smart Control, Responders, and VLB. The Equalizer can sort traffic within a cluster via content switching rules. Equalizer allows customers to control servers so that they can do server maintenance during business hours. SNMP allows the Equalizer GX family to be incorporated in an existing intelligent network management implementation. This gives existing management systems access Equalizer statistics, alerts, and alarms.

Coyote Point Solutions

Coyote Point provides consistent and predictable performance across the entire product line.

E250GX

- Entry level L4-7 Load Balancer
- 2 Gigabit Ethernet ports
- Perfect for basic Load Balancing tasks
- MSRP \$1,995

Our E250GX is layer 4-7 system designed as an entry level load balancing solution. The E250GX has 2 Gigabit Ethernet interfaces and does not support content switching. It does however provide full support for cookie based persistence and SSL offload. Customers use the E250GX to provide load balancing and high availability for basic HTTP applications, FTP, Email, DNS, or other TCP or UDP based protocols. Minimize headaches. Adding an E250GX is easy. Once it's installed, you won't have to unplug a server for updates, either. You can bring it down gracefully - have Equalizer route new traffic around it until it's free. And no one makes load balancing easier or more affordable than Coyote Point. The E250GX an industry-standard, plug-and-play solution that lets you consolidate resources and maximize the potential of your network.

E350GX

- L4-7 traffic manager
- 12 Gigabit ports
- VLB Basic
- Optimized for SME
- MSRP \$6,495

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The E350GX is Coyote Point's most popular a layer 4 through 7 load balancer. The E350GX provides a wealth of features for managing HTTP and secure HTTPS based applications. These features are typically included only in enterprise products with very high price points. Layer 7 features include match rules for content-based load balancing, URL rewriting as well as SSL offload and certificate management.

E450GX

- L4-7 traffic manager
- 12 Gigabit ports
- Xcel SSL Acceleration
- VLB Basic
- Optimized for E-Commerce
- MSRP \$10,195

The E450GX is optimized for use in secure application environments such as e-commerce, banking and medical. The E450 includes an SSL offload acceleration chipset that supports up to 8,500 HTTPS transactions per second. The E450GX is capable of managing a higher layer 7 HTTP load as well as shown in the upcoming performance review slide.

The E350 and E450GX both provide 12 Gigabit Ethernet ports on the front panel, reducing switching costs at deployment time. VLB basic is included, and Envoy global load balancing and VLB advanced are available as options on both platforms.

E650GX

- L4-7 traffic manager
- 22 Gigabit ports
- Xcel SSL Acceleration
- Express Web Compression
- Envoy Global Load Balancing
- VLB Advanced
- Optimized for Data Centers
- MSRP \$14,395

The E650GX is our highest performance and most fully featured application acceleration and load balancing solution. The E650's HTTPS performance has been benchmarked at 14,000 transactions per second, and the E650 incorporates Coyote Point's Express content compression technology. The Express GZIP compression engine reduces bandwidth utilization in web based applications by up to 6 times, producing instantaneous return on investment and corresponding reductions in application latency. The E650GX provides 20 Gigabit Ethernet ports on the front panel, as well as two SFP ports which may be used for either copper or fiber connectivity.

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Envoy®

Coyote Point's Envoy is a software package that allows you to add geo-intelligence to Equalizer networks. Envoy manages traffic for all data centers in a geocluster in much the same way as Equalizer manages traffic for all servers in a cluster. For example, Envoy can be configured with a site in New York and a site in London and load balance between the two locations.

Supporting up to 64 sites, Envoy allows you to take advantage of distributed application infrastructures by sending traffic to intelligently select the best site that can serve the client request. This reduces bandwidth costs and accelerates client response times. .

- **Availability.** If there's a network outage, server failure or other disturbance, Envoy engages surviving sites seamlessly.
- **Performance.** Using Equalizer's performance algorithms, Envoy tracks each site's load and performance to choose the best destination for each new request.
- **Geography.** Envoy determines the closest site to each client to minimize network latency.

Envoy can also be used to provide Disaster Recovery - if you have two data centers, you can configure Envoy to send all requests to one data center and only send requests to the other when the first data center can't be reached. Envoy can similarly load balance two internet connections at one physical location.

Envoy requires at least one Equalizer licensed for Envoy at each site. Envoy is included on the E650GX, optional on other models.



Equalizer VLB Advanced

Equalizer VLB Basic is unique technology included on the Equalizer E350GX, E450GX and E650GX that allows VMware virtualized servers to provide proactive load balancing metrics to the Equalizer.

VLB basic interacts with VMware's API to get direct measurements of CPU load and memory availability on virtual and physical servers. Combining this information with Equalizer's network observed performance statistics allows Equalizer to be even more responsive to server resource availability when making load balancing decisions.

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VLB Advanced with Smart Control

VLB Advanced™ is included on the E650GX and can be ordered as a licensable feature on the E350 and E450GX. provides unprecedented flexibility when deploying clusters of VMware virtual servers.

- Equalizer VLB Advanced offers VLB Smart Control threshold conditions for application performance and server responses
- Allows for automated VMware responses to application centric events
- The Result... reduced capital expenses (fewer servers) as well as reducing operational expenses (power, cooling, and management).
- VLB Advanced is included with the E650GX and is a licensable feature on the E350GX and E450GX.

VLB Advanced is a key component of an energy efficient, dynamically provisioned virtualized environment. Combining in-depth knowledge of VMware management tools with Coyote Point's "Smart Control" technology allows automated redeployment of physical resources when configurable events occur.

Equalizer Family Standard Features

Equalizer supports the latest version of EQ/OS the Equalizer software. The latest Version of EQ/OS is also supported on the previous `si' hardware line, allowing current customers with existing hardware to continue to take advantage of the continuing innovations provided in by Coyote Point. These innovations include:

- A dynamic web-based graphical Administrative Interface based on state-of-the-art AJAX technology. The Version 8.5 GUI provides up-to-the-minute information, updating the display with current status information and statistics.
- The managed port interface allows you to manage the configuration of the ports on Equalizer's front panel from the GUI, and provides accurate status information as well.
- Custom header injection lets you specify a custom header to be inserted into all client requests - this allows application-specific information to be placed into the client request headers and communicated to the server.
- Equalizer offers 7 load balancing policies, including a custom policy that allows you to specify the mix of load balancing factors that is right for your application.
- Equalizer's Smart Control feature allows administrators to define Smart Events that automate common administrative functions based on pre-set threshold values for system parameters and statistics. For example, you could specify that when the number of active servers in a particular cluster falls below a certain number, a currently unused server is made active.
- The Responders feature lets you define automatic responses to client requests that arrive when all the servers in a cluster are unavailable. Without Responders, you would need to dedicate a server to handle such requests.

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- A series of server health checks can be used to probe server availability and performance. By default, ICMP (ping) and TCP connection probes are used. You can also enable content-verification probes that test for response content from the server. Server agent probes allow you to run query the server for the output of a custom script running on the server for health information. Finally, if you are working in a VMware virtual server environment, you can use Equalizer VLB probes to get detailed server status information from VMware.
- Equalizer's event logging mechanism records system events in a syslog format, and allows you to write the Equalizer logs to another system running a syslogd server.
- Real-time statistics gathering permits you to view current statistics as well as graph statistics trends over time. Statistics can be exported to a CSV file for external analysis, and are made available via SNMP (Simple Network Management Protocol) for download to an SNMP client running on another machine.
- Equalizer VLB is Coyote Point's virtualization enabled load balancing solution for VMware Infrastructure virtual server configurations. It is available with either a Basic or Advanced license. VLB basic and comes standard on all Equalizer GX appliances. The Basic product lets you gather detailed status information from VMware, while VLB Advanced extends this functionality by allowing you to control VMware virtual servers via VMware-specific Smart Control Event features.

The mid market customer needs the performance, capabilities and flexibility of an enterprise capable solution. You can offer all this with Coyote Point at a mid market price. This is a win-win for you and your customers a more competitive offering . Shorter sales cycles... and satisfied customers that get the performance and reliability they demand.

