



## Overview

### Industry

Medical Technology

### Challenge

- Scaling Microsoft Exchange, SharePoint and Office Communication Server
- Minimizing Downtime
- Improving data center manageability

### Solution

Barracuda Load Balancer Model 340

### Results

- Scaled Exchange, SharePoint, and Office communication Server to support 6,000+ users
- Implemented High Availability cluster
- Completed deployment in only a few hours

# Fenwal Blood Technologies Increase Scalability and Performance of Microsoft solutions with Barracuda Load Balancers

## About Fenwal Blood Technologies

Illinois-based Fenwal Blood Technologies, Inc is a pioneer and global leader in the development of products that improve the safety and availability of blood. The company began in 1949 and developed the first flexible, disposable container for blood collection. Today, Fenwal continues to be a world leader in the development of innovations that advance the practice of blood transfusion and help shape the practice of transfusion medicine, making life-saving blood therapies available to the medical professionals and patients worldwide who rely on them.

## Building a Highly Available and Scalable Microsoft Solution

At the heart of Fenwal's productivity and communication infrastructure are Microsoft communication and productivity platforms. These platforms facilitate day-to-day knowledge sharing, communication and collaboration among Fenwal's global employees. Having experienced steady growth over its 60-plus year history, Fenwal decided to build a new data center from the ground up to keep pace with the continued market success and growth of its life saving blood technologies. "Having to support 6,000-plus global users required us to scale our Exchange, SharePoint and Office Communication Server (OCS) infrastructure as well as provide around the clock uptime," said Darryl Kegg, server engineering manager at Fenwal. The key benefit of this project was the unique opportunity to build a solution based on best-in-class hardware and software applications that efficiently solves the organizations needs. The challenge of this project was selecting the right mix of technology platforms that maximizes performance and minimizes costs.

**“We chose Barracuda Load Balancers because of its industry best price-to-performance. The fact that Barracuda Load Balancers were certified by Microsoft made it an easy choice.”**

**- Darryl Kegg  
Server Engineering Manager**

## Solution: Barracuda Model 340 Load Balancers

Fenwal was an existing Barracuda Spam & Virus Firewall customer and was extremely pleased with its value, performance, and ease-of-use. When they realized a load balancing platform was necessary to scale their Microsoft SharePoint, Exchange, and Office Communication Server infrastructure, they immediately turned to Barracuda Networks.

“We chose the Barracuda Load Balancer because of its ease of use and industry best price-to-performance,” said Kegg. “The fact that the Barracuda Load Balancers are certified by Microsoft for Exchange and Office Communication Server load balancing made it an easy choice for us.”

Kegg and his team decided to deploy three Barracuda Load Balancer 340s to support the organization's needs. The Fenwal server engineering team deployed two Barracuda Load Balancer 340s in a high availability (HA) pair to distribute traffic to internal networks and an additional Barracuda Load Balancer in the DMZ to load balance incoming traffic. In a short amount of time, Kegg's team was able to configure:



### Barracuda Load Balancer 340 Fast Facts:

- Achieves high availability & scalability objectives
- Integrated load balancing & intrusion prevention
- No per port, per server or per feature license fees
- Advanced load balancing features including direct server return and Layer 7 cookie persistence
- Includes SSL offloading

### About the Barracuda Load Balancer

With its intuitive web interface, the Barracuda Load Balancer is extremely easy to deploy. It offers network administrators reliability, speed and security with highly available server load balancing, Layer 7 traffic acceleration, SSL acceleration, and proven deployment configurations. Barracuda Load Balancers in four models and can support up to 250 servers with no per port or per server licensing fees.

- **Microsoft Exchange:** Incoming SMTP, Outlook Web Access (OWA), Outlook Mobile Access (OMA) and Exchange ActiveSync traffic all handled by both the DMZ Barracuda Load Balancer and the internal HA pair. POP3 traffic is handled exclusively by the internal HA pair.
- **Office Communication Server:** Web Conferencing, AV conferencing, HTTPS, MTLS, TLS, SIP services are load balanced by the internal Barracuda Load Balancer HA cluster.
- **SharePoint:** All SharePoint traffic is load balanced on the internal Barracuda Load Balancer HA cluster.

With this setup, Fenwal easily handles more than 10,000 SharePoint and Exchange request per hour. It also handles more than 1,000 OCS requests.

“We’re extremely pleased with our Barracuda Load Balancers and we are planning to add additional Barracuda Load Balancers in our local data center for high availability as well as building out our international data center with Barracuda Load Balancers.”

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#### About Barracuda Networks Inc.

Barracuda Networks Inc. combines premises-based gateways and software, cloud services, and sophisticated remote support to deliver comprehensive security, networking and storage solutions. The company’s expansive product portfolio includes offerings for protection against email, Web and IM threats as well as products that improve application delivery and network access, message archiving, backup and data protection.

Coca-Cola, FedEx, Harvard University, IBM, L’Oreal, and Europcar are among the more than 130,000 organizations protecting their IT infrastructures with Barracuda Networks’ range of affordable, easy-to-deploy and manage solutions. Barracuda Networks is privately held with its international headquarters in Campbell, Calif. For more information, please visit [www.barracudanetworks.com](http://www.barracudanetworks.com).

“The Barracuda Load Balancers were extremely easy to set up. It only took a few hours to set up Exchange, SharePoint, and Office Communication Server load balancing.”

- Darryl Kegg  
Server Engineering Manager