

## Accelerating Online Shoppers Globally with Scalable Load Balancing

Shopzilla® is dedicated to helping shoppers around the world compare and find the right price on millions of products from thousands of stores. Shopzilla properties also include the renowned BizRate.com® consumer feedback network, which collects more than one million merchant and product reviews with ratings each month.

With multiple data centers throughout the US and Europe, 20 million unique visitors a month, and 50,000 – 70,000 concurrent users at any given time, Shopzilla relies upon best-of-breed server load balancing solutions to remain competitive in the eCommerce market. Low latency and the capacity for a high volume of simultaneous connections are critical to handling peak loads, especially during the holiday season when traffic spikes dramatically.

For a highly scalable eCommerce site, server load balancers that service the data center Web server tier are business critical. Predicted traffic growth signaled a need for additional load balancer capacity, so Shopzilla required an alternative to the installed Juniper DXs, which had reached end of life. A10 Networks' AX 3200 server load balancers were selected as they addressed both the low latency and high simultaneous connection requirements.

In addition, the AX Series uniquely met the business drivers for Shopzilla and BizRate to excel during the 2008 holiday shopping season and beyond, with features and benefits that helped exceed expectations.

## AX Series: The New Generation Server Load Balancer

**Data Center Efficiency and 3 to 1 Consolidation:** Shopzilla chose A10's AX 3200s to replace the existing Juniper DX devices. Standardizing on the high-performance AX 3200 platform reduces the amount of required load balancers in Shopzilla's data centers by consolidating the legacy solutions at a ratio of 3 to 1. Through data center consolidation with AX, Shopzilla streamlines deployment and reduces administrative overhead, rack space and power consumption, while increasing efficiency and return on investment (ROI).

Three-to-one consolidation was also facilitated by the powerful Virtual IP (VIP) of a VIP feature, which delivers the ability to share existing resources when more resources are needed in the event of peak traffic, anomalies or outages. The AX 3200 has the flexibility to redirect traffic due to a network anomaly and/or utilization threshold, or to send traffic to an alternative destination based on a criteria policy. The powerful VIP of a VIP feature provides the ultimate server load balancer flexibility based on detection of an issue and action to remediate the issue, while remaining seamless to the end user.

**High Performance and Low Latency:** Shopzilla uses redundant multi-tier networks in each data center, accompanied with the AX Series for content load balancing. With AX, content is distributed based on traffic levels in each geographic region. This design minimizes latency to the end user due to AX's optimized application acceleration features combined with purpose-built hardware.

Shopzilla also required the AX 3200 to load balance user requests to multiple destination targets where user requests are evenly distributed to the target servers by dynamically assigned server weights based on Layer 7 requests. Servers with few outstanding Layer 7 requests are the better performing servers and are assigned higher weights, and therefore receive more requests than servers with lower weights. This algorithm takes the guesswork out of traditional Layer 4 only

Shopzilla.com and BizRate.com, typically serve 50,000 to 70,000 concurrent users at any given time.

When traffic growth signaled a need to add additional network infrastructure, Shopzilla chose the AX Series to upgrade its current data center.

*"We deployed multiple AX 3200s prior to the 2008 holiday shopping season, and the appliances easily handled the increased traffic. AX delivers the new generation of server load balancers required to ensure our eCommerce site is highly scalable with consistent low latency, and always operational."*

**Burzin Engineer**  
**VP of Technology**  
**Shopzilla**

weight-based methods. Traffic will continue to be evenly distributed to multiple server targets even as servers are taken out of rotation due to maintenance tasks or unexpected server failures.

**Customized Features and Support:** Shopzilla benefits from the ability to work with A10 on designing new feature sets to continually increase the customer experience and reduce costs. For the ultimate customization, with AX's high-performance and flexible aFlex Layer 7 scripting engine and the ability to retrieve server and service-level state statistics, the AX 3200 can be programmed to dynamically pull in/out resources as needed to make Websites highly available, which improves the overall user experience and response time.

The A10 service and support experience proved far superior to experiences with competitors. A10's approach of treating network issues as if they are A10's own problems to solve until proven otherwise, versus the common vendor approach to first suggest the problem could be the customers' or other another vendors' equipment, ensures a far better overall experience.



### Reliability and Room for Growth

With the deployment of the AX 3200 high availability pairs in its data centers, Shopzilla has reduced costs, accelerated the user experience and ensured a scalable solution for significant future growth, all fundamental to eCommerce success. The AX 3200 represents a new generation of affordable, enterprise-grade server load balancing appliances delivering a significant price/performance advantage over the competing and incumbent solutions.



## About AX Series

A10 Networks' AX Series is the industry's best price/performance advanced traffic manager – helping enterprises and ISPs maximize application availability through a high-performance and scalable Web Application Delivery platform. The AX's Advanced Core Operating System (ACOS) architecture has garnered the company numerous awards and is revolutionary by market standards due to native multi-systems support. AX includes an optimized multi-CPU architecture built from the ground up that leaps the competition in terms of performance, scalability and reliability. For more information, visit: [www.a10networks.com/products/axseries](http://www.a10networks.com/products/axseries)

## About A10 Networks

A10 Networks was founded in 2004 with a mission to provide innovative networking and security solutions. A10 Networks makes high-performance products that help organizations accelerate, optimize and secure their applications. A10 Networks is headquartered in Silicon Valley with offices in the United States, Japan, China, Korea and Taiwan. For more information, visit: [www.a10networks.com](http://www.a10networks.com)

## About Shopzilla, Inc.

Shopzilla® is the largest, easiest-to-use and most comprehensive shopping search site on the Web. With an index of millions of products from thousands of stores, Shopzilla empowers shoppers to instantly find virtually anything on sale from anyone, anywhere on the Web – at the best price for their lifestyle. Shopzilla also operates the BizRate Research® division and consumer feedback network that collects more than one million consumer reviews of stores and products each month. Based in Los Angeles, Shopzilla has sites in the US, United Kingdom, France and Germany and the company is owned by Scripps Networks Interactive Inc. (NYSE: SNI), which include national lifestyle TV networks such as HGTV, The Food Network, Fine Living and more. For more information, please visit: [www.shopzilla.com](http://www.shopzilla.com)