

ALWAYS ON, ALWAYS FAST, ALWAYS SAFE

A10 Thunder Application Delivery Controllers Keep Internet Companies Online

Challenge:

Web 2.0 companies' success depends on fast, highly available, secure services

- Downtime is unacceptable
- Fast, smooth transactions and downloads are a primary competitive advantage
- Security is paramount to success, and typically mandated by regulation
- Budgets are tight, and traffic is growing

Solution:

A10 Thunder Application Delivery Controllers

- Site and application availability via a variety of server load balancing, including GSLB, scaling capacity, and advanced health checks
- Application acceleration and infrastructure optimization, from SSL offload, HTTP compression, traffic steering, and more
- Application security with WAF, DDoS protection, unique first-to-market features, and more

Benefits:

- Saves on CAPEX and OPEX
- Scales your business
- Simplified licensing makes solutions affordable

For web-based companies, the network isn't a way to conduct business. It is their business.

Today's online leaders have built their success by providing a fast, always-on user experience in new arenas that include social media, eCommerce, Software-as-a-Service (SaaS), online gaming, and many other cloud-based services. Application acceleration in this world is measured in sub-second increments, and downtime is the equivalent to a wrecking ball in the brick-and-mortar world. No less critical than speed and availability is security. Inadequate security can spell disaster—not only in a loss of immediate revenue, but in compliance violations. Volumetric security threats such as [distributed denial of service \(DDoS\) attacks](#) can cripple online companies, as their product is entirely dependent on a strong Internet presence.

Addressing these issues are “table stakes” to the IT personnel within web-based leaders, and the situation is only growing more complex. Not only has the web become ubiquitous, but IT must also deal with the explosive growth of network traffic coming from mobile devices, as well as massive volumes of big data. And to make matters even more challenging, web giants are often forced to scale their infrastructures ahead of revenue in order to accommodate demand, which puts an incredible strain on budgets. A10 Networks' Thunder™ ADC line of high-performance, application delivery controllers, which are next generation server load balancers, enable customers' applications to be highly available, accelerated, and secure, no matter how large.

Over 3,000 of the best known names on the web depend on A10 ADCs every day

A10 Thunder ADCs offer today's web giants a host of features to help them address their unique challenges. Some features particularly relevant to online companies include:

- Security solutions that ensures availability
- Optimize existing infrastructure
- Global server load balancing (GSLB)
- Flexible, scalable architecture

Security that ensures availability

Over the last few years, DDoS attacks have grown dramatically in frequency, size and complexity. And unfortunately, while web giants are planning a defense against today's threats, hackers are planning something new. A10 Thunder ADC face the problem with a variety of threat detection methods, ranging from basic authentication to protocol-specific behaviors, to ensure that your network is behaving as it should. Advanced DDoS protection, our ICSA certified Web Application Firewall (WAF) technology provides robust, high-performance out-of-the box protection. Customized actions can even be taken against advanced application-layer attacks, using A10 Networks' aFlex™ Deep Packet Inspection (DPI) scripting technology for protection against zero-day attacks.

Optimize the infrastructure you already own

In addition to providing complete DDoS protection, A10 Thunder ADC delivers traffic steering and advanced layer 4-7 load balancing to make the equipment you already own perform at its best. And you can extend availability even further, by offloading CPU-intensive tasks, like SSL encryption/decryption to A10 Thunder ADCs. Additional A10 features designed to speed existing infrastructure include RAM caching, TCP reuse, and HTTP compression, all of which free the back-end servers from further repetitive and processor-intensive tasks.

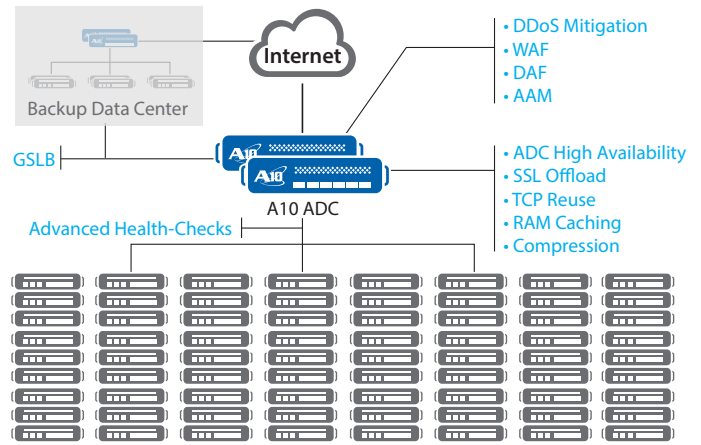
Global server load balancing – more than disaster recovery

Most web giants host content in distributed data centers, and A10's GSLB features can optimize these sites as well. Disaster recovery is a primary benefit, ensuring that content remains available by redirecting traffic flows and preventing loss in the case of a major event or outage. With A10, however, GSLB delivers advantages outside disaster recovery by enabling geo-location, ensuring that content is delivered from the data center in the closest proximity to the user.

ACOS – A flexible, scalable architecture

The A10 Networks Advanced Core Operating System (ACOS®) is the foundation for the A10 Thunder ADCs, and is the base for its unique features. By taking full advantage of multi-core processors, the ACOS application networking platform delivers unprecedented performance in the most optimal form factor. ACOS testing has revealed up to 150 Gbps of throughput with five million new sessions/second and 256 million concurrent sessions—all in a single rack unit appliance.

While conventional application networking vendors have been challenged to scale system performance with rapidly escalating network backbone speeds, the A10 Networks ACOS platform leverages its Shared Memory Architecture and Flexible Traffic Accelerator (FTA) to efficiently utilize multi-core processors and scale performance linearly with increasing CPU/processor density. This means A10 customers are ready for whatever growth and peak loads occur, at the lowest rack density, and lowest cost per connection.



Protect your network—and your business— with A10 Networks

The A10 Thunder ADCs are built to ensure that web-based businesses get what they need from their networks: availability, acceleration, and security. Thunder ADCs deliver the form factor you need, and the features the market demands. And Thunder ADCs are built on a platform that optimizes both user experience and your bottom line, with innovations that offload CPU-intensive tasks to enable servers to do more, faster. The unique A10 ACOS platform offers you vastly improved performance in a remarkably small form factor. And you can manage the system in the way that works for you—from the GUI, CLI, DevOps oriented aXAPI RESTful API, or A10 Networks' aGalaxy® central management system.

Learn more

Discover how A10 Networks can optimize the network that drives your business. Contact your A10 Networks representative for more information or visit www.a10networks.com.

About A10 Networks

A10 Networks is a leader in application networking, providing a range of high-performance application networking solutions that help organizations ensure that their data center applications and networks remain highly available, accelerated and secure. Founded in 2004, A10 Networks is based in San Jose, California, and serves customers globally with offices worldwide. For more information, visit: www.a10networks.com

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To learn more about the A10 Thunder Application Service Gateways and how it can enhance your business, contact A10 Networks at: www.a10networks.com/contact or call to talk to an A10 sales representative.

Part Number: A10-SB-19122-EN-01
July 2014

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