

# Alteon Application Accelerator

Brochure



## Alteon Application Accelerator Features

- > Delivers unsurpassed acceleration of Web-based applications
- > Includes profiles for business-critical applications
- > Reduces server load through SSL termination, acceleration and centralized certificate management
- > Load balances both encrypted and unencrypted backend server connections
- > Compresses traffic at wire speed by monitoring content, client and network to self-tune compression algorithms
- > Uses delta encoding to compare objects at the byte level to ensure that only changed content is transmitted
- > Reduces bandwidth needs through the improved performance of the client's local cache
- > Optimizes TCP connectivity for improved performance and system capacity
- > Allows for transparent deployment — with no client, applet or remote hardware required
- > Enables centralized management with clustering of up to 256 units and single system image for nearly unlimited scalability

- > **Improve productivity and end-user satisfaction by accelerating any web-based application.**
- > **Save money by reducing bandwidth and server requirements.**
- > **Accelerate and optimize business-critical web-based applications.**

Users today expect instant access to applications — whether they're at the office, working from home or traveling halfway around the globe. Radware's Alteon Application Accelerator helps deliver on these expectations while reducing costs by dramatically accelerating web-based applications.

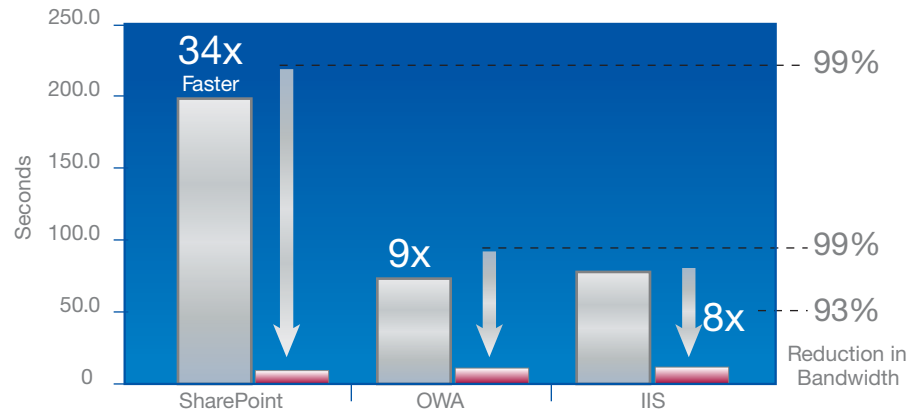
The Alteon Application Accelerator 510 and 610 were designed to improve web-based application response time by as much as 40 times — resulting in increased employee satisfaction and productivity. Both models also reduce server and bandwidth requirements, delivering significant cost savings.

The Alteon Application Accelerator 610 is ideal for enterprises that plan for more than 4,000 peak users or require the assurance of continuous availability that dual power supplies, hot-swappable fans and dual hard drives deliver. Both the Alteon Application Accelerator 510 and 610 can be clustered for added scalability and reliability.

For ease of installation and use, Alteon Application Accelerators come complete with application profiles that have been optimized and tested for IBM® WebSphere, Microsoft® Outlook Web Access (OWA) and Microsoft SharePoint.



Figure 1. Alteon Application Acceleration “Before and After” performance results diagram



## Simple to deploy and manage

The Alteon Application Accelerator can be installed in the data center with no client or remote device required. The appliance can be installed in minutes without the need to change applications, re-architect your network or reconfigure clients. Each accelerator or cluster of accelerators can be managed through the command line interface (CLI) or through an easy-to-use browser-based interface. Extensive reporting is available as an option.

## Offloading CPU-intensive tasks

The Alteon Application Accelerator provides SSL acceleration, reducing server load and improving response time. Off-loading SSL activity to the accelerator has other benefits as well, including simplified certificate management, cost savings through elimination of the need for cryptographic cards in each server, and the increased flexibility of not having to tie applications to specific servers in specific locations.

	Non-accelerated (sec)	Accelerated (sec)	Time savings (times)	Bandwidth savings
Microsoft SharePoint*	191.0	5.7	34x	99%
Microsoft Outlook Web Access*	71.0	8.1	9x	99%
Microsoft IIS*	74.0	9.0	8x	93%
OpenText Livelink**	422.4	20.4	21x	75%

\* 1 Mb file over 600 msec, latency WAN

\*\* 3 Mb file over 400 msec latency WAN

Figure 2. Alteon Application Accelerators speed your applications and optimize your network.

## TCP optimization

The Alteon Application Accelerator optimizes TCP connectivity, including pooling sessions, and eliminates CPU- consuming and unnecessary session set-up and tear-down activities.

## Adaptive compression

Compression can be a double-edged sword — either dramatically improving performance or adding latency, depending on the nature of the object to be compressed, line speed and other variables. The Alteon Application Accelerator monitors these attributes and automatically selects the optimal compression strategy.

## Browser cache offload with version control

The goal of caching is to place content as close to the client as possible. The Alteon Application Accelerator combines its own high-speed dynamic random access memory (DRAM) with the client’s browser to cache content. To ensure that the client cache is active, the Alteon Application Accelerator intelligently controls the browser-based cache by injecting the appropriate tags into HTTP traffic. To ensure that out-of-date content is never served up, the Alteon Application Accelerator tracks changes to the original content.

## Delta encoding

Many acceleration products provide dynamic caching, taking care to send only objects that have changed rather than entire web pages. Delta encoding identifies the actual differences between objects at the byte level. Unlike dynamic caching, Alteon Application Accelerator's delta encoding technology only sends the raw changed data. This results in significant savings and better performance due to fewer packets crossing the network.

## Load balancing

The Alteon Application Accelerator is best deployed as part of a broader Radware ADC solution with the Alteon Application Switch used for traffic redirection, load balancing, security and traffic management. The Alteon Application Accelerator can be used alone or with other load-balancing solutions and supports Virtual Router Redundancy Protocol (VRRP) for high availability. The product also has its own easy-to-use but powerful load-balancing capability. The Alteon Application Accelerator can load balance both encrypted and unencrypted backend server connections – allowing end-to-end encryption while still providing all the benefits of application acceleration.

## Point-and-click profiles

Alteon Application Accelerator's profiles take the guess work out of accelerating Microsoft® Outlook Web Access (OWA), Microsoft SharePoint and IBM® WebSphere. Alteon has worked closely with Microsoft and IBM to ensure that Application Accelerator works seamlessly with these leading applications.

Application profiles identify exactly which combination of acceleration techniques should be used for each object type for a specific application. Application profiles can easily be added, customized and shared among Alteon Application Accelerators without code updates or system downtime.

## Accelerate your network with Radware

Radware understands that improving network performance requires more than just adding bandwidth. Alteon Application Accelerator uses asymmetric acceleration to provide web applications with LAN-like performance across the Internet. The Alteon Application Switch provides Layer 2-7 load balancing, redirection and network optimization as well as the ability to identify and shape the applications traversing your network. Together, they provide a complete set of tools for optimizing and accelerating your entire network.

## About Radware

Radware, the global leader in integrated application delivery solutions, assures the complete availability, performance and security of business-critical applications for nearly 10,000 enterprises and carriers worldwide. With Radware's comprehensive and award-winning suite of products, companies can drive business productivity, improve profitability, and reduce IT operating and infrastructure costs by making their networks "business-smart."

## Certainty Support

Radware offers technical support for all of its products through the Certainty Support Program. Each level of the Certainty Support Program consists of four elements - phone support, software updates, hardware maintenance, and on-site support. Radware also has dedicated engineering staff that can assist customers on a professional services basis for advanced project deployments.

## Learn More

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