



# Site Shield

In recent years, the scale and severity of attacks on Web sites and Web-based applications has grown dramatically. Traditional threats including hacker attacks, viruses, Denial of Service (DoS) and worms are now joined by increasingly dangerous malware, propagating faster than ever across millions of machines. As more and more firms migrate from desktop- to Web-based infrastructure, their vulnerability to these attacks continues to grow. A recent study found that over 95% of corporate Web applications are severely vulnerable to DoS attacks.

As attacks become more widespread and sophisticated, traditional network defense mechanisms with a single tier of security protection are insufficient, and often unable to identify, isolate and mitigate threats before significant damage is done. This can result in disruptions to Web site performance, data theft, and Denials of Service. Even more sophisticated multi-tier security networks require ways to add efficient security layers to respond to advancing attackers.

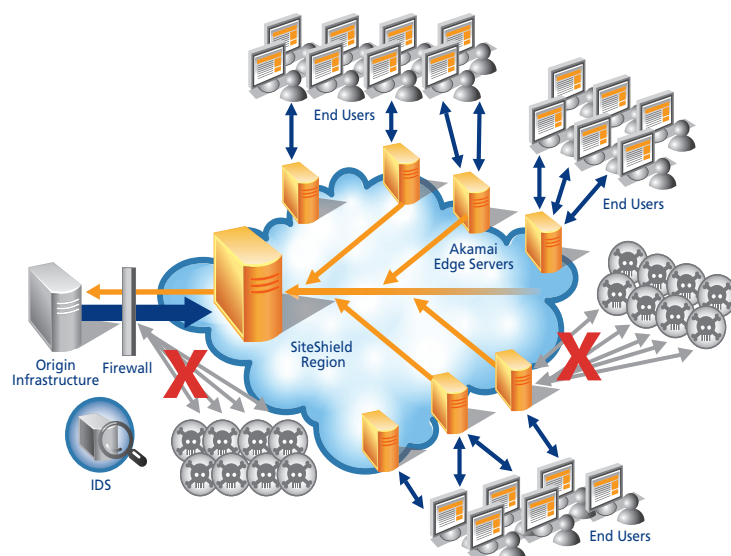
Akamai has developed a suite of Security Solutions that make it possible to ensure Web site availability without sacrificing performance or usability. Akamai's Site Shield is an important part of this overall Web-based security strategy.

### Site Shield Module

The SiteShield Module is the content and application acceleration industry's first and only solution that "cloaks" a Web site from the public Internet. This adds an additional layer of security protection while still ensuring that content is delivered quickly and without fail, regardless of end user location. It is designed to compliment the existing infrastructure that protects a sites origin and leverage Akamai's advanced acceleration technologies.

### How Site Shield Works

SiteShield protects the origin by effectively removing it from the Internet accessible IP address space. In standard configuration, the access controls create an environment by which the origin site can only be accessed by IP traffic originating from the Site Shield regions.



### BUSINESS BENEFITS

- Enhance Security and Mitigate Risks:** SiteShield protects mission critical systems by mitigating risks posed by bots, viruses, worms and hackers, providing Web sites with an additional security layer.
- Preserve Brand Equity and Improve Reliability:** Site disruptions increase Web site abandonment and dilute brand equity. SiteShield improves reliability, prevents denial of service and ensures that goodwill towards a company remains intact.
- Reduce Operational Costs:** SiteShield as an additional security service, frees companies from the need for constant upgrades of hardware and software to stay current with evolving security threats, reducing operational expenditure.
- Improve Business Productivity:** As business processes migrate to the Web, better performance and availability are directly tied to improved business productivity.

### How Site Shield Works (Continued)

ACLs (Access Control Lists) at the customer's firewall will only allow traffic from the SiteShield's server IPs to contact the origin. Consequently, no other machine in the Internet will have the ability to directly communicate with the origin.

At the same time, all of Akamai's distributed edge servers will continue to have complete access to the current content. This is because Akamai's SiteShield servers are configured to serve as the parent for all edge servers for a specific customer's content. If an Akamai edge server needs content that it cannot find from a peer, it requests the content from the SiteShield servers. In the event dynamic uncacheable content is requested, the SiteShield Server leverages Akamai's advanced routing and protocol acceleration technologies available. As a result, legitimate end-users will always be able to retrieve content quickly and reliably while the origin remains protected.

## The Akamai Difference

Akamai® is the leading cloud platform for helping enterprises provide secure, high-performing user experiences on any device, anywhere. At the core of the company's solutions is the Akamai Intelligent Platform™ providing extensive reach, coupled with unmatched reliability, security, visibility and expertise. Akamai removes the complexities of connecting the increasingly mobile world, supporting 24/7 consumer demand, and enabling enterprises to securely leverage the cloud. To learn more about how Akamai is accelerating the pace of innovation in a hyperconnected world, please visit [www.akamai.com](http://www.akamai.com) and follow @Akamai on Twitter.

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