

AKAMAI SOLUTION BRIEF

Global Scale Delivers the Intelligence for Effective Security

From scale to visibility to intelligence

From the intricate algorithms powering AI tools to the critical data housed within your organization's CRM system, there is an undeniable correlation between the quantity of accurate data that goes into these systems and the quality of the output. Assembling that quality data has become particularly important in cybersecurity. Fortunately, Akamai's platform offers unparalleled scale, which is the key to providing our customers with effective and market-leading security solutions. Akamai's scale provides valuable visibility into global activity, turning data into actionable intelligence that helps organizations safeguard themselves against increasingly complex threats.

Global reach and distribution

Akamai's platform spans 2,000 locations globally, providing 10x to 100x more coverage than other providers. This extensive network ensures proximity to you and your customers, enhancing business performance and availability. And, in the face of volumetric attacks like distributed denial of service (DDoS), our scale becomes a formidable defense mechanism. The platform's ability to distribute traffic across multiple locations mitigates the impact, reduces lag, and maintains operations. Moreover, the benefits of the platform extend beyond security, enhancing the user experience by offering trillions of route combinations and intelligent traffic routing.

Unprecedented data insights

Recently, Akamai analyzed an average of 788 TB of first-party data daily. Because of this vast dataset, and our advanced heuristics and machine learning models, Akamai has been positioned as a leader in global traffic pattern analysis, event tracking, and threat detection by multiple analyst firms. The real-time intelligence that comes as a result of this scale enhances our security services and products. With organizations in a constant race to protect themselves against CVEs and global threats, our customers can count on the 9 PB database of intelligence that Akamai consistently updates and analyzes with machine learning to deliver automatic and adaptive protections quickly and accurately.

Robust defense against DDoS attacks

In scenarios like DDoS attacks, where the goal is to overwhelm resources, the platform's size becomes pivotal in maintaining operations. With attacks up 45% year over year, Akamai's scale and distribution are critical. When a location is under siege, the traffic can be rerouted to other nearby locations, thwarting the attack's effectiveness. The platform recently saw a peak attack size of 900 GB, showcasing its ability to withstand and mitigate large-scale attacks. Akamai addresses the DDoS problem by mitigating volumetric attacks at Layer 3, Layer 4, Layer 7, and on DNS.

Akamai Connected Cloud

The world's most distributed platform for cloud computing, security, and content delivery



4,100+

edge points of presence



1,200+

networks



130+

countries



750+

cities



SSD-powered
hardware



Platform building blocks that ensure availability and reduce risk

DNS-based advantage

The Akamai platform's DNS-based architecture, including our proprietary DNS network, is a fundamental building block. Recognizing DNS as the gateway to the internet, our network prioritizes performance and provides exceptional user experiences. The redundancy of our DNS network ensures uninterrupted service, backed by a 100% availability SLA.

Streamlined traffic management

Akamai's content delivery network, the cornerstone of our platform, exclusively accepts port 80 and port 443 traffic. This immediate action minimizes the noise of the internet, significantly reducing the attack surface. By dropping unnecessary traffic at the edge, organizations mitigate risk and eliminate the resources required to support that traffic, enhancing overall efficiency.

Supporting a diverse portfolio of security solutions

The scale of Akamai's platform produces a vast and uniform dataset that provides machine learning-based recommendations to a comprehensive portfolio of security solutions. By delivering that information through a single interface, organizations can streamline security operations, free up resources, and improve their overall cybersecurity posture.

Conclusion

The scale of our platform has made Akamai a trusted leader for more than 25 years. From unparalleled scale and visibility to cutting-edge intelligence, we empower organizations to navigate a complex threat landscape with confidence. By embracing Akamai's comprehensive approach to security, CISOs can safeguard their enterprises with efficiency, resilience, and intelligence that are unparalleled in the industry.

Want to experience the Akamai platform difference?

Akamai's security solutions leverage the unique benefits of our platform to protect your organization and your customers. As your needs scale and change, Akamai's portfolio has solutions to meet those changing needs. Try, add, or change your mix of solutions — all accessed via our single platform portal, handled under one contract, and backed by the same devoted support team.



With Akamai, the security happens in the background, quietly and effectively.

— Operations and Commercial Manager, British Council

Akamai App & API Protector

Protect against DDoS, bot, application layer, and API attacks

Akamai Bot Manager

Advanced bot management designed to detect and mitigate sophisticated bad bots but allow good bots

Akamai Account Protector

Detect and mitigate account takeover, account opening abuse, and credential stuffing

Akamai Brand Protector

Detect and mitigate brand impersonation attacks, including phishing and fake websites

Akamai Client-Side Protection & Compliance

Assist with your PCI compliance and protect your website against JavaScript attacks

Akamai Edge DNS

Fortify your DNS infrastructure with an external authoritative DNS service

Akamai Prolexic

Protect your infrastructure from DDoS attacks

Akamai API Security

Discover, monitor, and audit API activity using real-time analysis to respond to threats and abuse



Detection is critical within any WAF. Akamai empowers us with effective detection, even in a complex environment.

– Principal IT Consultant,
Panasonic Business
Support Europe

Please visit our [application and API security page](#) for more information.