

SECURE CDN

Enabling secure web experiences across the Internet



We live in a world where providing a secure web experience is more important than ever due to the growing nature of cyberattacks and threats to websites today. Not only do organizations need to focus on securing the physical network infrastructure where websites are hosted, but the connection used to deliver websites and applications to an end-user's browser must be secured as well. To meet the demand for high-quality, secure web experiences, more online content is being enabled using SSL/TLS security standards, the building blocks of the HTTPS protocol. HTTPS-enabled websites provide authentication and encryption of online communications between an end-user's device and the origin infrastructure they are requesting content from.

Common drivers for HTTPS adoption:

- *End-user preference*
- *Search-engine preference*
- *Increased amount of malicious online threats*
- *HTTP/2 adoption*
- *Browser behavior*
- *Increased regulations (HIPAA, PCI DSS, FISMA, FEDRamp, etc.)*

“Akamai has helped Ally securely improve our scale and performance to improve the customer experience.”
 – **Tim Boisvenue**, IT Director, Ally

However, there are several critical requirements associated with end-to-end SSL/TLS certificate management that are time consuming and complex and can put your company's information and reputation at risk if not carefully managed.

Akamai's Secure CDN platform provides industry-leading security and reliability, a comprehensive portfolio of certificate options with complete lifecycle management, and offers the tools, systems, and expertise to meet the needs of every business.

- **Secure & Reliable Platform:** Akamai has developed industry-leading CDN platform security and reliability, ensuring the highest levels of trust and availability.
 - Akamai ensures the infrastructure that delivers your traffic is secure:
 - Locked cages and cameras
 - Strict monitoring and access procedures.
 - Multiple 24/7/365 NOCCs across the globe.
 - Not only meet, but exceed compliance certifications: PCI, ISO 27001/2, HIPAA, FedRamp, FISMA, etc.
 - Akamai secures your private keys:
 - Customers' private keys are never touched by human hands or seen by human eyes.
 - Customers' private keys are transmitted securely and never written to CDN disk.
 - Robust, real-time auditing processes are used to ensure ongoing integrity of keys.
 - Dedicated, private key infrastructure located in secure and controlled locations.

Secure CDN

- Akamai ensures the integrity of your HTTPS connections:
 - Smart software that runs continuous, automated audits of CDN servers to ensure integrity.
 - All traffic is secured end-to-end between the Origin, Akamai, within Akamai's network, and to the client device.
 - Akamai performs Certificate Validation when connecting to the origin.
- Akamai ensures the infrastructure that delivers your secure traffic is reliable:
 - 100% availability SLA.
 - Akamai's globally distributed Intelligent Platform™ is built fully fault-tolerant and automatically self-healing.
- **Comprehensive Portfolio:** through partnerships with industry-leading certificate authorities, Akamai provides a comprehensive portfolio of certificate options with complete lifecycle management.
 - Akamai offers a broad portfolio of certificate options:
 - All certificate validation types (DV, OV, EV).
 - Single and multiple domain support (SAN, SAN wildcard).
 - Akamai has partnerships and integrated systems with the leading CA partners.
 - Akamai offers Complete Lifecycle Management of certificates:
 - Purchase certificates on behalf of customers.
 - Add/remove domains on existing certificates.
 - Automated renewal process.
 - **Easy-to-use Tools:** Akamai offers the tools, systems, and expertise to meet the HTTPS needs of every business.
 - All certificate management capabilities are enabled via Akamai's {OPEN} APIs and Luna Control Center Portal.
 - Akamai's Certificate Provisioning System (CPS) enables customers to self-provision and manage their SSL/TLS certificates.
 - Supports all certificate options, including third party
 - Network deployment features include SNI, timed deployment, change management approval, staging, and cipher selection

The Akamai Ecosystem

Akamai makes the Internet fast, reliable and secure. Our comprehensive solutions are built on the globally distributed Akamai Intelligent Platform™, managed through the unified, customizable Luna Control Center for visibility and control, and supported by Professional Services experts who get you up and running easily and inspire innovation as your strategies evolve.



As the world's largest and most trusted cloud delivery platform, Akamai makes it easier for its customers to provide the best and most secure digital experiences on any device, anytime, anywhere. Akamai's massively distributed platform is unparalleled in scale with over 200,000 servers across 130 countries, giving customers superior performance and threat protection. Akamai's portfolio of web and mobile performance, cloud security, enterprise access, and video delivery solutions are supported by exceptional customer service and 24/7 monitoring. To learn why the top financial institutions, e-commerce leaders, media & entertainment providers, and government organizations trust Akamai please visit www.akamai.com, blogs.akamai.com, or [@Akamai](https://twitter.com/Akamai) on Twitter. You can find our global contact information at www.akamai.com/locations, or call 877-425-2624. Published 07/17.