

A10

Unified Application Delivery and Security for Healthcare

Protect patient data, ensure uptime, and stay secure and compliant with A10 Networks

High-performance Application Delivery Built for Healthcare

Healthcare delivery depends on always-on access to critical systems such as electronic health records, diagnostic imaging platforms, patient portals, and telehealth services. When these applications slow down or become unavailable, care delivery can be disrupted and operational risk increases.

At the same time, healthcare organizations face growing demands for HIPAA-aligned security controls, stronger protection against ransomware and encrypted threats, continuous availability for mission-critical clinical workflows, and the performance required to support imaging-intensive and AI-enabled care environments.

A10 Thunder® ADC helps healthcare providers deliver fast, secure, and highly available application services across on-premises, cloud, and hybrid infrastructure. Powered by the A10 Advanced Core Operating System (ACOS®), Thunder ADC combines scalable Layer 4 to Layer 7 load balancing with encryption offload, intelligent traffic management, and application optimization to keep clinical systems responsive and resilient.

Unified Delivery and Operational Control Across the Care Network

Modern healthcare environments are increasingly distributed, spanning hospital data centers, outpatient facilities, cloud-hosted services, and remote access points supporting virtual care. Traditional ADC approaches often struggle in these models, leading to fragmented management, inconsistent policies, and operational overhead for lean IT teams.

A10 Thunder ADC is purpose-built for distributed healthcare delivery. With ACOS at its core, it brings application acceleration, availability, and security enforcement into a single high-performance platform. Paired with A10 Control, healthcare teams gain centralized visibility, consistent automation, and streamlined management across deployments. The result is low-latency performance for clinical workflows, simplified operations, and greater efficiency across the entire care environment.

Encrypted Traffic Insight Without Compromising Patient Privacy

Encryption is essential for protecting electronic protected health information (ePHI), but it can also reduce visibility into threats targeting healthcare systems. A10 Thunder SSLi® provides a secure decrypt zone with policy-driven inspection controls, enabling healthcare organizations to gain encrypted traffic awareness while maintaining privacy boundaries aligned with compliance expectations.

This helps defend clinical applications against hidden attacks and ransomware without disrupting care operations or exposing sensitive patient data.

Healthcare Challenges A10 Helps Solve

Healthcare delivery depends on secure, always-on access to clinical systems. A10 helps providers unify application delivery and advanced security controls to protect patient privacy, maintain uptime, and defend against modern threats across hybrid environments.

HIPAA and Patient Privacy	Clinical Application Availability	PACS and Imaging Performance	Ransomware and Encrypted Threats
 <ul style="list-style-type: none"> • Thunder ADC and Thunder SSLi help healthcare organizations protect electronic protected health information (ePHI) with strong encryption and policy-based traffic controls. • Supports selective inspection through a secure decrypt zone, helping maintain privacy boundaries aligned with HIPAA expectations. • Offloads TLS and SSL processing to improve performance while safeguarding sensitive clinical communications. • Reduces encrypted blind spots without compromising trust or compliance requirements. 	 <ul style="list-style-type: none"> • Thunder ADC ensures continuous access to mission-critical healthcare systems such as EHR platforms, patient portals, and clinical applications. • Routes traffic intelligently with advanced health checks and automated failover to prevent service disruption. • Helps maintain responsive user experiences during demand spikes, planned maintenance, or unexpected outages. • Supports resilient care delivery across hospitals, clinics, and hybrid environments. 	 <ul style="list-style-type: none"> • Purpose-built to deliver high-throughput, low-latency performance for imaging-intensive healthcare workflows. • Optimizes delivery of PACS systems and diagnostic imaging platforms that rely on fast access to large data volumes. • Accelerates application responsiveness across distributed care networks and cloud-hosted imaging services. • Enables timely clinical decisions by keeping imaging systems fast and consistently available. 	 <ul style="list-style-type: none"> • Healthcare is a top target for ransomware and advanced cyberattacks hidden inside encrypted traffic. • Thunder SSLi provides encrypted threat visibility, allowing organizations to detect malicious activity without disrupting clinical workflows. • Helps reduce the attack surface through centralized inspection and consistent policy enforcement. • Strengthens protection of critical applications and patient services before threats impact care operations.



Ready to simplify and accelerate application delivery?

Request a demo today to see how Thunder ADC delivers high performance, ultra- low latency, and unified control across financial trading, banking, and cloud environments while reducing operational complexity and risk.

About A10

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