

DYNAMIC NETWORK ACCELERATION

Extend your VPN applications to the most challenging regions with LAN-like speed and security

CDNetworks' Dynamic Network Acceleration solution, or DNA, sets a new standard among CDN solutions by extending enterprise applications that traverse *both* internal LANs and the public Internet, even in the most challenging regions. DNA's value proposition is simple: Extend, accelerate and scale your mission-critical applications quickly and cost-effectively.

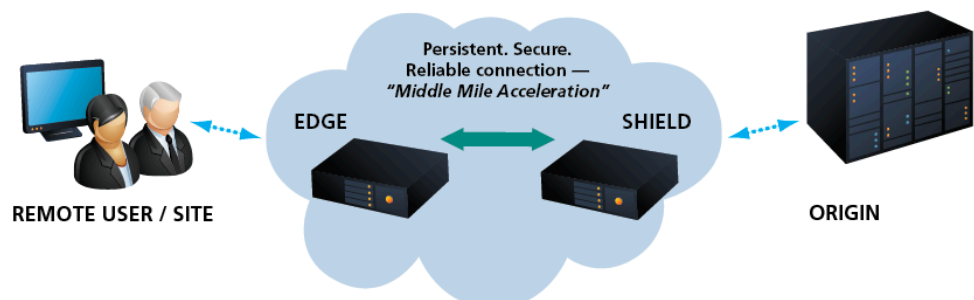
DNA is the ideal solution for organizations that must serve mission-critical applications to the extended enterprise in order to compete in today's global markets. IT leaders at these organizations recognize the criticality of application performance on user adoption. At the same time, they appreciate the high availability and scalability that DNA provides in support of sustained business continuity.

A Look into DNA's DNA

DNA has been designed to accelerate the performance of web based applications without intruding on the application's traffic. DNA accomplishes this by operating at the transport layer without decoding the application-layer data. This enables IT to boost the performance of both browser-based and non-browser based applications. The latter include VPN clients, remote/virtual desktop clients, and similar internal enterprise applications not commonly addressed by standard CDN solutions. Deployed with a global coverage map, DNA ensures high availability by dynamically provisioning alternate data paths for sustained business continuity in the event of a network outage.

How DNA works

DNA relieves application origin sites from the burden of distributing high-performance dynamic content/application data over the network. It does so by employing an optimally tuned TCP/IP stack in the 'middle mile' while conforming to RFC guidelines for Internet standards. This is important, because middle-mile routing and travel typically account for 95% of an application's response time delay. DNA speeds the middle mile by drastically reducing the number of round-trip connections made between applications and their users. CDNetworks operates DNA across its multiple Points-of-Presence around the globe, guaranteeing superior scalability and performance to even the most dispersed enterprise.



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Key Features and Benefits

Feature	Description	Benefit
Optimally tuned transport layer	Standards-compliant transport protocol that leverages the latest TCP advances	Improves Middle mile performance
Enterprise application support	Optimal TCP/IP layer that can support any application running on top of it	Enables superior performance of both browser-based and non-browser applications, such as VPN clients running over a distributed enterprise infrastructure
Intelligent middle-mile traffic management	Proprietary load balancing infrastructure, based on sophisticated algorithms, that manages traffic routing and distribution within the middle mile	Optimizes application response times while accounting for failover scenarios
Network loss protection	Networking techniques which minimize the impact of packet loss and traffic congestion	Reduces network inefficiency and improves data transmission quality
Transparent round trip time reduction	TCP-IP techniques to reduce lag time during the 'handshake' process occurring between proxies.	Eliminates the need for excessive round trips across network elements caused by the protocol overhead in TCP/IP
Enforcement of data integrity	System- and hardware-level policies that prohibit caching of SSL certificates	By not decrypting secure and sensitive data, the enterprise maintains complete control over application and content control and security

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