

## DYNAMIC NETWORK ACCELERATION

### Extend your VPN Applications to the Most Challenging Regions with LAN-like Speed and Security

Over the past decade, large organizations have invested heavily to build out distributed enterprise applications for use over the Internet. This investment has been driven by the explosive growth in the number of remote offices, mobile users, and dispersed supply chain participants that make up today's extended enterprise. But slow response times from mission-critical applications to the end users accessing them slows enterprise productivity to a crawl.

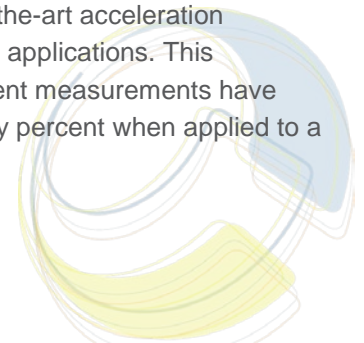
Too often today, distributed CRM, ERP, and HR applications perform poorly when accessed by mobile workers, remote office employees, and supply chain partners. The main cause of this poor performance is Internet latency. Latency is preventing distributed enterprise applications from delivering on their full potential to increase productivity and improve the bottom line. Until recently, IT organizations could do little to respond to Internet-induced application latency. This is because IT lacked control over public network problems, and the option to adopt private WANs simply cost too much.

Today, CDNetworks addresses Internet-based latency with a solution to accelerate enterprise applications that must traverse the public Internet to reach the entire extended enterprise. The solution, Dynamic Network Acceleration (DNA), reliably scales and accelerates both browser and non-browser-based enterprise applications transmitted over SSL-VPN.

Not only does DNA scale and accelerate enterprise applications, it ensures data and application integrity over both internal LANs and the public Internet. This represents a drastic departure from common CDN solutions which merely focus on basic caching and compression/optimization techniques for public-facing applications. By overcoming internal application hurdles - such as VPN connectivity between mobile workers and centralized applications or ERP system input from suppliers - DNA provides the most scalable solution to accelerating and extending the enterprise.

### How DNA Speeds Enterprise Applications

Organizations that provide clientless access to internal enterprise applications over HTTPs connections can leverage DNA to optimize application performance. Among such organizations, SSL-VPN installations have grown rapidly as the primary means for delivering internal ERP and CRM applications to distributed end users. While most SSL-VPN solutions address connectivity and security at the end points, slow performance in the "middle mile" plagues implementations. DNA solves middle-mile performance problems by seamlessly applying state-of-the-art acceleration techniques at the transport layer to SSL-VPN supported applications. This significantly reduces public network latency. In fact, recent measurements have shown DNA to reduce application response times by fifty percent when applied to a Cisco VPN Client.



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With DNA, organizations overcome the inherent inefficiencies in TCP/IP transmission mechanisms while adhering to RFC guidelines based on Internet standards. IT teams can now enhance the end-user experience while supporting remote desktop infrastructure protocols, such as ICA for Citrix XenApp; RDP for Windows XP, Windows 7, or Windows Server solutions; and RFB for VNC remote control software.

DNA services effectively extend an organization's WAN performance across multiple access points and sites. As a result, DNA can simultaneously provide a failover path for business continuity in the event of major disruptions or catastrophic network outages. In addition, IT can apply DNA to any dynamic application interaction over TCP-IP (i.e. client-server communications or even virtual desktop/application delivery) to thin clients on the network edge.

### **How DNA Works**

DNA conforms to Internet standards and employs optimally tuned, persistent TCP connections that reduce the total number of round trips required between end users and application servers. At the same time, DNA speeds packets through the network in their "as-is" state and does not perform any decoding. In this way, DNA speeds data transmission without compromising data integrity and security — critical factors for enterprise application distribution. To ensure optimal redundancy and geographic coverage, CDNetworks deploys DNA globally at its numerous Points-of-Presence.

### **Is DNA Right for Your Organization?**

Your large or mid-sized enterprise can benefit greatly from DNA if any of the following apply to your distributed enterprise applications:

- Your applications have experienced network outages or unacceptably slow performance from an end-user perspective
- You want to accelerate application traffic without intrusive inspection of packets by any network element
- You have an extensive supply chain business that depends on real-time, reliable CRM, ERP, or order/inventory tracking systems
- You want to avoid additional CAPEX/OPEX
- You cannot afford the costly delays of data center expansion in regions like China
- You have deployed a complex virtualization environment in your data center and struggle to cost-effectively extend it to remote employees and partners

To find out more about CDNetworks Dynamic Network Acceleration solution, visit <http://www.cdnetworks.com/solutions/dynamic-network-acceleration> or contact us at [info@cdnetworks.com](mailto:info@cdnetworks.com).

