



## Make Web applications run five times better

NetScaler is an all-in-one Web application delivery solution that makes applications run five times better by accelerating performance, ensuring that applications are always available and protected, and substantially lowering costs.



The cost and complexity of deploying Web applications is going through the roof. An explosion in the number of Web applications in a typical organization is resulting in out-of-control server sprawl and an unmanageable cost structure. At the same time, the push toward more interactive and collaborative applications with Web 2.0 capabilities is placing an enormous load on existing network infrastructures and exposing the organization to a new set of online security risks.

IT departments can no longer address these challenges by simply throwing more servers, bandwidth and equipment at the problem. Over-provisioning does not solve the problem. In fact, it only adds cost and complexity to the application delivery infrastructure.

## Key benefits

Citrix NetScaler makes Web apps run 5x better by single-handedly offloading servers, accelerating performance and integrating application security.

- Reduce TCO
- Optimize the user experience
- Secure Web apps
- Ensure apps are always available

“The Citrix NetScaler appliance ensures that our Web applications are optimized with good performance and high availability. The devices do their job completely transparently, and after a while you even forget that they are always present.”

Fou-Khan Tsang, member of the Board of Directors, Alfa Accountants and Advisors

## Citrix NetScaler

Citrix® NetScaler® is an all-in-one Web application delivery solution that makes applications run five times better by ensuring application availability through advanced L4-7 traffic management, by increasing security with an integrated application firewall and by substantially lowering costs by offloading servers. This reduces TCO, optimizes the user experience and makes sure that applications are always available.

Deployed in front of Web servers, NetScaler combines high-speed load balancing and content switching with application acceleration, data compression, content caching, SSL acceleration, network optimization and application performance monitoring. Unlike other approaches that require multiple point products, NetScaler is an all-in-one appliance that is easy to deploy and operate.

In addition to running on a wide range of physical appliances, NetScaler is also available as a virtual appliance. With the NetScaler VPX virtual appliance, NetScaler can be deployed on industry standard servers anywhere in the data center. Whether running production workloads or incorporating application delivery functionality into critical development and test environments, NetScaler VPX enables **load balancing, application acceleration, application security** and server offload to become virtual appliance-based services. NetScaler VPX can be easily and dynamically deployed on-demand and anywhere in the datacenter or cloud environment.

## Simplify infrastructure

NetScaler is an all-in-one solution that reduces the number of servers and network devices in the Web application delivery infrastructure. It replaces standalone products such as those providing application security, SSL VPN capabilities, application performance monitoring, content caching and much more. With a unified policy engine, NetScaler supports multiple functions with great performance, delivers single-platform integration and is much easier to deploy and manage than multiple products from multiple vendors.

In addition, NetScaler offers investment protection against unforeseen infrastructure requirements. NetScaler's flexible “Pay-as-You-Grow” option enables NetScaler MPX and VPX platforms to scale to support increasing application demands with a simple software license upgrade, reducing the need for forklift upgrades and downtime.

## Optimize server use

The proven layer 4-7 load balancing of NetScaler ensures 100 percent application uptime and no single point of failure by directing users to the right application resource. Its powerful load balancing is extended worldwide with integrated Global Server Load Balancing (GSLB) to efficiently and intelligently distribute application traffic across multiple datacenters, enabling a resilient disaster recovery solution.

## Accelerate application performance

NetScaler accelerates Web application performance by up to five times or more. Advanced Web compression reduces the amount of data that is sent to users, resulting in significantly faster response times for all varieties of Web applications and reduced network bandwidth requirements. NetScaler also integrates powerful Web caching to serve static and dynamically generated content immediately to application users, avoiding the expense and delay incurred when Web applications handle repetitive requests for the same information. The innovative TCP optimizations of NetScaler accelerate application traffic over network links, including those with large delays and significant packet loss that otherwise would punish application performance.

## Ensure the highest level of security

The Citrix Application Firewall™ feature of NetScaler protects Web applications from the growing number of application-layer attacks and prevents the loss of valuable corporate and customer data. In addition to proven attack defenses, Application Firewall aids in compliance with information security regulations, such as PCI-DSS. It protects Web applications with little to no impact on throughput performance or application response times. With a positive security model, Application Firewall defeats all application threats, including zero-day attacks, without requiring signatures.

## Key features

- **100 percent application availability**

NetScaler intelligently directs user requests for application content to the right Web server for maximum performance and availability. L4-7 traffic management decisions are based on flexible load balancing algorithms so that application workloads are properly balanced among all available Web resources. Powerful session persistence ensures that each user's Web connection is directed to the same server so that the application behaves properly during the entire duration of each session. For maximum application uptime, NetScaler provides application and server health checks that monitor the ability of the application server infrastructure so that requests are only directed to healthy application resources capable of completing the user's request.

“Citrix is helping us enhance our technology leadership by delivering applications to roaming clinicians with speed, simplicity and security.”

Brad Blake, director of Infrastructure and Engineering, Boston Medical Center

“CBSi was able to ensure stability and guarantee extensibility by introducing Citrix NetScaler. In particular, NetScaler reduced fixed expenses such as manpower from the management side by more than 50 percent.”

Soon-Han Jeoung, manager, Solution Business Team, CBS Internet News

- **Advanced server offload**

NetScaler server offload capabilities take the load off overburdened networks and servers, reducing server costs by up to 60 percent or more. NetScaler offloads from servers things they don't do well, including compute-intensive tasks such as data compression, TCP connection management and SSL encryption. NetScaler provides more efficient management of these functions, enabling organizations to deliver more applications to more users with a dramatic reduction in servers and network devices.

- **Easy, policy-based management**

NetScaler policies are defined and managed using Citrix AppExpert management framework, which provides a single, consistent environment for all NetScaler features and functional modules. All policy expressions and rules are common for all NetScaler functionality, making it simple to bring new capabilities online. To fully optimize popular enterprise applications, such as Oracle® E-business Suite and Microsoft® Sharepoint®, AppExpert templates encapsulate complete configuration policies that can quickly be imported into NetScaler so that new applications can be delivered within a matter of minutes.



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**About SoftLayer Technologies, Inc.**

Headquartered in Plano, Texas, SoftLayer provides industry-leading, on-demand virtual data center services on a global basis from facilities in Dallas, TX; Seattle, WA; and Washington, DC. SoftLayer integrates all facets of IT to innovate fully automated solutions. This empowers customers with complete control, security, scalability, and ease-of-management.

**About Citrix**

Citrix Systems, Inc. (NASDAQ:CTXS) is the leading provider of virtualization, networking and software as a service technologies for more than 230,000 organizations worldwide. Its Citrix Delivery Center, Citrix Cloud Center (C3) and Citrix Online Services product families radically simplify computing for millions of users, delivering applications as an on-demand service to any user, in any location on any device. Citrix customers include the world's largest Internet companies, 99 percent of Fortune Global 500 enterprises, and hundreds of thousands of small businesses and prosumers worldwide. Citrix partners with over 10,000 companies worldwide in more than 100 countries. Founded in 1989, annual revenue in 2008 was \$1.6 billion.

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