

NetScaler 9000 Series

APPLICATION DELIVERY SYSTEMS

9000

The Industry's Leading Solution for Secure, Optimized Delivery of Applications

KEY BENEFITS

Accelerated Application Performance

- > Improve end-user response time
- > Integrated high-throughput compression
- > Static and dynamic application caching
- > Advanced TCP optimization

End-to-End Application Security

- > Industry-leading SSL capacity
- > Secure application data from end-to-end
- > Increase security without impacting performance

Continuous Application Availability

- > Superior defense against DDoS attacks
- > Protection from intrusion attempts, traffic surges and server failures
- > Ensure continued service to legitimate users during attacks

Reduced Cost of Operations

- > Decrease bandwidth consumption
- > Increase capacity of existing application and infrastructure resources
- > Simplify management and ongoing maintenance

Evolving existing network infrastructure to meet ever-expanding business goals means more than just extending application access to customers, partners and employees beyond traditional infrastructure boundaries. It means designing an application infrastructure that adapts to the network uncertainties associated with these complex application requirements. As applications become increasingly strategic for corporate objectives, it is essential that consistent, reliable performance is achieved for all user communities. While application performance is critical, application security must be enforced as external threats grow at alarming rates. While the adoption of end-to-end encryption can relieve many of the external threats, it must not compromise the end-user experience.

An application-aware infrastructure must transparently increase the resiliency of an application's performance relative to unexpected network delays or fluctuations in demand. A network architected for application intelligence is imperative to meet the challenge of providing a comprehensive solution to satisfy these increasing demands while reducing operating costs and complexity.

NetScaler Application Delivery Systems herald a new category of application networking infrastructures, harnessing the combination of application-centric performance, security, availability and cost savings needed for enterprises and e-businesses to confidently deploy critical applications. NetScaler systems unify all of the capabilities of conventional load balancers, traffic managers, and remote access systems with the addition of advanced application-based functionality.

NetScaler systems integrate application optimization, security, and switching into a unified, purpose-built solution. Explicitly designed to direct, protect and control applications in the most efficient way possible, the NetScaler product line enables enterprises, e-commerce vendors and content providers to ensure the secure, optimized delivery of their business-critical applications while significantly reducing the total operating cost of their overall application infrastructure.

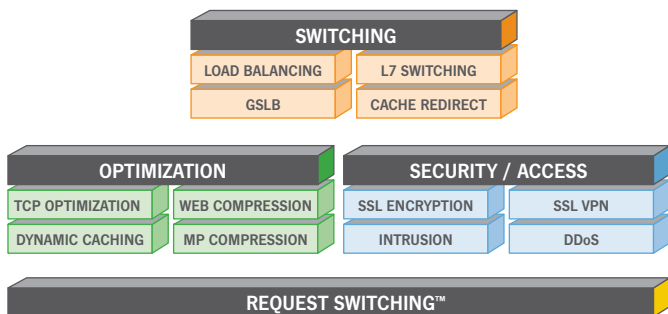


NetScaler Application Delivery Systems accelerate and secure your data center applications.

Fast, Secure Delivery of Applications

APPLICATION INTELLIGENT NETWORKING ARCHITECTURE

NetScaler Application Delivery Systems reduce the cost and complexity associated with application rollout by combining the essential elements of secure application delivery—optimization, security, and switching—into a single, integrated solution.



The NetScaler Application Intelligent Networking Architecture

REQUEST SWITCHING™

Providing intelligent application infrastructures can be a challenge, as applications typically require end-to-end connections between servers and clients, hiding individual application requests. This “hiding” of individual requests leaves many application layer solutions crippled in making intelligent application decisions. NetScaler’s patented Request Switching™ architecture overcomes these challenges with the industry’s only wire-speed technology that handles each application request based on powerful user-defined policies. The NetScaler application-aware policy engine, AppExpert™, allows the creation of detailed policy-based decisions for individual requests, irrespective of connections. AppExpert lets administrators build sophisticated application request handling policies that enable powerful, extensive application-based features.

OPTIMIZATION

AppCompress™: On-the-Fly Compression of Application Data

NetScaler AppCompress provides real-time compression for both encrypted and unencrypted application data. This eliminates bandwidth bottlenecks and drastically reduces last mile transmission times, while dramatically improving user response times. The breakthrough AppCompress technology adds application layer compression capabilities that allow enterprises to realize performance improvements for low-speed connections regardless of the application communication protocol.

AppCache™: Dynamic Application Data Caching

NetScaler AppCache enables the integration of both static and dynamic application data caching. By serving data from the in-memory on-board cache, the NetScaler system eliminates the need to direct application requests to the servers, resulting in significantly faster page load times. AppCache’s unique ability to cache dynamic data further enhances end-user performance, while dramatically reducing workload for Web, application, and database servers.

Amplified Network and Server Capacity

The high-performance processing techniques employed by NetScaler products optimize the use of standard Internet protocols to service millions of users while using significantly fewer servers. Features such as TCP offload and dynamic application data caching carefully optimize server-side resources to achieve higher throughput with the installed servers, thereby reducing or even eliminating the need for additional servers to meet traffic growth. Furthermore, compression of transmitted data can typically cut bandwidth costs by up to 50% or more.

SECURITY

Application-Level DDoS Attack Protection

NetScaler Application Delivery Systems include built-in defenses against a host of Distributed Denial of Service (DDoS) attacks such as SYN flood, Tear Drop and ICMP attacks, along with application-level attacks that masquerade as legitimate traffic. The ability to identify and continue service delivery to valid users during flood attacks sets the NetScaler solution apart from other products in its class.

Application Intelligent Intrusion Filtering

Application intelligent intrusion filtering augments the DDoS defense features by preventing application-level intrusion attempts and defeating worms by blocking traffic based on the source IP address, the contents of the requested URL and other flexible user-definable rules.

Application Data Encryption with SSL

To ensure privacy for sensitive application and file data, NetScaler products use industry-leading SSL acceleration. By enabling SSL acceleration, customers are assured that their application data is completely secure, and administrators are able to maximize their investment by removing computation-intensive SSL tasks from servers, ensuring end-to-end security and high performance.

SWITCHING

Fine-Grained Traffic Control

NetScaler Application Delivery Systems provide the industry’s most comprehensive Layer 4-7 traffic control. When deployed in front of servers, caches, and firewalls, or across data centers, this secure application delivery system allows network administrators to flexibly control the flow and direction of every content request. The system intelligently distributes traffic load at the most granular request level while bypassing unhealthy or overloaded systems, automatically registering systems as they come back online.

Global Server Load Balancing (GSLB)

The Global Server Load Balancing feature provides a comprehensive solution for service providers and enterprises to deliver disaster recovery, proximity-based secure remote access, increased application availability and increased global application performance. By enabling GSLB, application requests are seamlessly redirected to a geographically adjacent location, ensuring improved application response time while providing high-availability through transparent multi-location fail-over capabilities.

SSL VPN

Secure Remote Access to Applications and Resources

The NetScaler Application Delivery System's SSL VPN capabilities provide employees, partners and customers with anytime, anywhere access to essential applications and content. The NetScaler SSL VPN solution requires no additional client or server software, allowing remote users to gain access from any Web browser. Whether at home, on the road, via wireless LAN, or from behind the firewall of another company, remote users have secure access to the business-critical applications and content they need, when they need it. The NetScaler system's unique combination of SSL VPN with application switching, optimization and security allows administrators to provide ubiquitous remote access while enhancing application security and performance.

MANAGEMENT

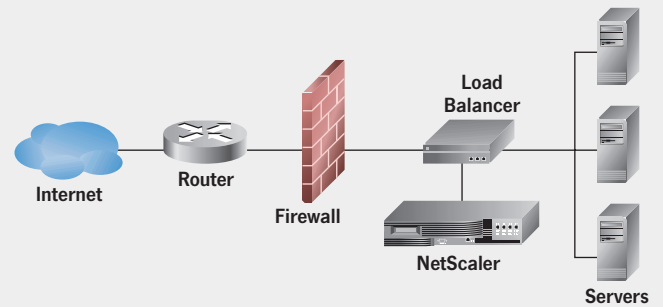
Reduced Management Complexity

NetScaler systems are simple to install and flexible to manage. Network administrators are able to perform all configuration, monitoring and logging functions via command line interface (CLI) or Web-based graphical user interface (GUI). NetScaler systems also can be managed via third-party software using SNMP, or via XML/SOAP API for custom management solutions. Additionally, since NetScaler systems reduce the number of servers required, the ongoing cost of system administration and maintenance is dramatically reduced.



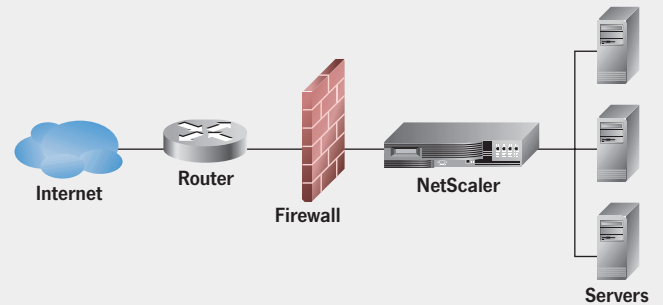
The NetScaler 9000 Series Management Console and Dashboard

APPLICATION DELIVERY GATEWAY CONFIGURATION



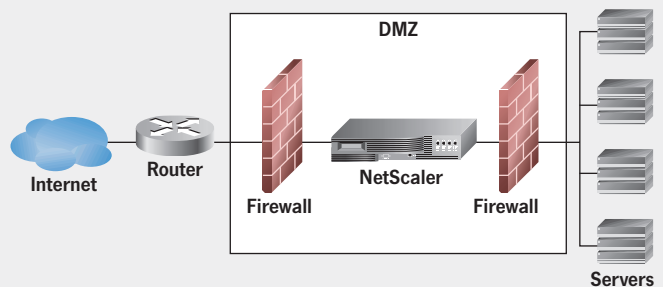
The NetScaler Application Delivery Gateway delivers complete integration with existing Layer 4-7 solutions to maximize return on investment while satisfying evolving data center requirements. Comprehensive security including DDoS defense and secure remote access, and complete application optimization including content caching, TCP offload and content compression, can be deployed without disrupting existing network infrastructures.

APPLICATION DELIVERY SWITCH CONFIGURATION



The NetScaler Application Delivery Switch augments the functionality of the Application Delivery Gateway with fine-grained traffic control—uniquely combining application-level security, optimization and switching in a unified platform. The result is a powerful solution that ensures the secure, optimized delivery of applications while dramatically lowering the cost of operations.

SECURE REMOTE ACCESS CONFIGURATION



NetScaler systems have been designed to maximize end-user performance while providing comprehensive security and optimization features. By deploying a NetScaler system within the DMZ, an organization can provide complete remote access to its entire end-user community without requiring additional client software or complex configurations.

NETSCALER 9000 SERIES PRODUCT FAMILY

The NetScaler family of Application Delivery Systems consists of a variety of solutions designed to meet a diverse set of performance and functionality needs, ranging from solutions for small office environments to solutions designed to deliver industry-leading performance for the world's largest networks.

	APPLICATION DELIVERY ACCELERATOR	APPLICATION DELIVERY GATEWAY	APPLICATION DELIVERY SWITCH
APPLICATION OPTIMIZATION			
Client-connection Persistence	●	●	●
AppCompress™	●	●	●
AppCache™	●	●	●
TCP Buffering		●	●
TCP Offload		●	●
APPLICATION SECURITY			
SSL VPN	●	●	●
SSL Acceleration	●	●	●
DDoS Defense (Layer 2-4)	●	●	●
DDoS Defense (Layer 7)		●	●
Surge Protection		●	●
Priority Queuing		●	●
SureConnect™		●	●
Intrusion Filtering		●	●
APPLICATION SWITCHING			
Load Balancing (Layer 4-7)			●
Content Switching (Layer 7)			●
Cache Redirection (Layer 7)			●
Global Server Load Balancing			●
	APPLICATION DELIVERY ACCELERATOR	APPLICATION DELIVERY GATEWAY	APPLICATION DELIVERY SWITCH
	<p>The NetScaler Accelerator is designed to meet application security and optimization requirements. With AppCompress integrated compression and full-featured SSL VPN support, this platform is an ideal solution for enterprises seeking to provide optimized bandwidth performance and clientless secure remote access. The addition of AppCache optional application caching delivers an improvement in application response time while scaling application server resources.</p>	<p>The NetScaler Gateway combines the features offered in the Accelerator with additional application-aware security and optimization features. Intelligent security features provide an ideal solution for customers concerned with defending against sophisticated application layer attacks. With the addition of advanced application optimization features, the Gateway is ideal for customers seeking a single platform that can deliver industry-leading application security and optimization without compromising performance.</p>	<p>The NetScaler Switch builds upon the Accelerator and Gateway products with the addition of a full complement of load balancing and content switching features. The combination of full Layer 4-7 load balancing and GSLB features with application optimization and security enables customers to deploy a comprehensive application delivery infrastructure with a single system. NetScaler's single, unified solution replaces a number of traditional point solutions. As a result, network complexity and operational costs are dramatically reduced without compromising performance or features.</p>



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