

Citrix NetScaler Platinum Edition

APPLICATION DELIVERY SYSTEM INTEGRATING COMPREHENSIVE APPLICATION ACCELERATION, TRAFFIC MANAGEMENT, SECURITY AND PERFORMANCE AND VISIBILITY

Citrix® NetScaler® Platinum Edition is a Web application delivery solution that reduces datacenter costs and accelerates application performance up to five times. It provides visibility into the end-user application experience and comprehensive Web application security in concert with advanced traffic management. NetScaler Platinum Edition is available as a family of scalable, purpose-built appliances for organizations that need to optimize the performance and availability of internal or public-facing applications being held to strict service levels, or containing sensitive information that must be protected from application-layer attacks.

ACCELERATED APPLICATION PERFORMANCE

Citrix NetScaler can increase application performance by up to five times. Citrix® AppCompress™ improves end-user performance and reduces bandwidth consumption by compressing Web application data, regardless of whether it is encrypted or unencrypted, before it is sent to the client. Citrix® AppCache® speeds content delivery to users by providing fast, in-memory caching of both static and dynamically generated HTTP application content.

In addition, Citrix NetScaler delivers multiple TCP optimizations to improve the performance of the network and server infrastructure. NetScaler TCP optimizations are transparent to clients and servers, accelerating the delivery of any enterprise or Web-based application while requiring little or no configuration.

INTELLIGENT LOAD BALANCING AND CONTENT SWITCHING

Deployed in front of application servers, NetScaler delivers fine-grained direction of client requests to ensure optimal distribution of traffic. In addition to Layer 4 information (protocol and port number), traffic management policies for TCP applications can be based upon any application-layer content. Administrators can granularly segment application traffic based upon information contained within an HTTP request body or TCP payload, as well as L4-7 header information such as URL, application data type or cookie. Numerous load-balancing algorithms and extensive server health checks provide greater application availability by ensuring client requests are directed only to correctly behaving servers.

COMPREHENSIVE APPLICATION SECURITY

Platinum Edition includes NetScaler Application Firewall technology that proactively protects Web applications from application-layer attacks such as SQL injection, cross-site scripting, forceful browsing and cookie poisoning, and helps prevent theft and leakage of valuable corporate and customer data.



Key Benefits

Accelerated and Visible Application Performance

- Data compression improves application response times for HTTP applications
- TCP optimizations enhance performance across high-latency and congested networks
- In-memory caching immediately serves both static and dynamically generated HTTP content
- EdgeSight for NetScaler provides real-time visibility of the end-user experience

Enhanced Security and Availability

- Integrated NetScaler Application Firewall protects against known and unknown application-layer attacks
- L4-7 content switching and comprehensive server health checks direct user requests to the optimal application server
- Protects applications from L4-7 denial-of-service (DoS) attacks
- Provides global traffic management for multi-site enterprises via Global Server Load Balancing and disaster recovery

Improved Datacenter Efficiency

- TCP optimizations offload costly networking connection management from servers
- Integrates SSL acceleration for faster delivery of secure Web traffic (HTTPS)
- In-memory caching frees servers from repeatedly serving the same content



NetScaler Platinum Edition includes high-performance, built-in defenses against denial of service (DoS) attacks. Content inspection capabilities enable Citrix NetScaler to identify and block application-based attacks such as GET floods and site-scraping attacks. Legitimate surges in application traffic that would otherwise overwhelm application servers are automatically handled with configurable Surge Protection and Priority Queuing features.

END-USER EXPERIENCE VISIBILITY

Citrix EdgeSight™ for NetScaler provides page-level visibility of Web application performance. EdgeSight for NetScaler transparently instruments client HTML pages, proactively monitoring Web page response time from the end-user perspective. Response time measurements are combined with detailed statistics on the trip durations of requests and responses across the Web site infrastructure, providing granular visibility into how Web applications are behaving from the end user's perspective.

SSL ACCELERATION

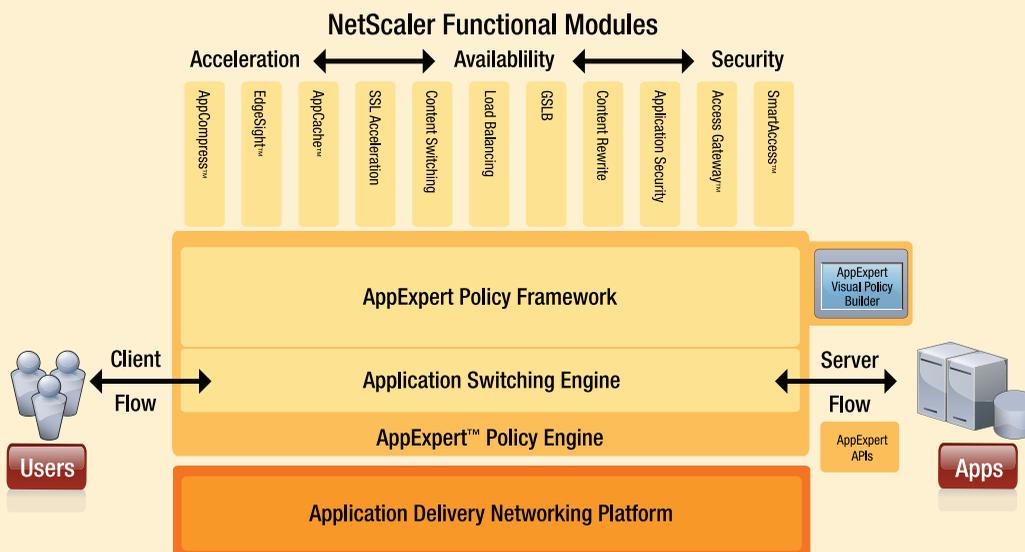
NetScaler integrates hardware-based SSL acceleration to offload the compute-intensive processes of SSL connection set-up and bulk encryption from Web servers. SSL acceleration reduces CPU utilization on servers, freeing server resources for other tasks. NetScaler Platinum Edition is also available in a FIPS-compliant model that provides secure key generation and storage.

REDUCED DEPLOYMENT AND OPERATING COSTS

Citrix NetScaler cuts application delivery costs by reducing the number of required servers and by optimizing usage of available network bandwidth. The intuitive AppExpert Visual Policy Builder enables application delivery policies to be created without the need for coding complex programs or scripts. In addition, NetScaler reduces ongoing operational expenses by consolidating multiple capabilities in a single solution. For managing multiple NetScaler appliances, the separately available NetScaler Command Center provides centralized administration of system configuration, event management, performance management and SSL certificate administration.



NETSCALER SYSTEM ARCHITECTURE



Citrix NetScaler application delivery solutions are purpose-built using an advanced, multi-layered system architecture. At the core of this architecture is the AppExpert Policy Engine, which provides full, bi-directional visibility of Web application traffic and a common policy framework used by all NetScaler functional modules.

KEY FEATURES

TRAFFIC MANAGEMENT

Layer 4 Load Balancing

- Protocols supported: TCP, UDP, FTP, HTTP, HTTPS, DNS and SIP (over UDP)
- Algorithms: Round Robin, Least Packets, Least Bandwidth, Least Connections, Response Time, Hashing (URL, Domain, Source IP, Destination IP, and CustomID), SNMP-provided metric, Server Application State Protocol (SASP)
- Session Persistence: Source IP, cookie, server, group, SSL session, SIP CALLID, Token-based
- Session Protocols: TCP, UDP, SSL_TCP
- Server Monitoring: Ping, TCP, URL, ECV, scriptable health checks, Dynamic Server Response Time
- Link load balancing

Layer 7 Content Switching

- Policies: URL, URL Query, URL Wildcard, Domain, Source/ Destination IP, and HTTP Header, Custom, TCP Payload Values

Global Server Load Balancing (GSLB)

- Algorithms: Site health, geographic proximity, network proximity
- Site health checking on status, connection load, packet rate, SNMP-provided metrics

HTTP Rewrite

- Policy-based bidirectional rewriting of HTTP header and payload elements

APPLICATION ACCELERATION

TCP Optimization

- Multiplexing, Buffering, Connection Keep-alive, Windows Scaling, Selective Acknowledgement

AppCompress

- GZIP-based compression for HTTP traffic
- Compression of encrypted data

AppCache

- Caching for static and dynamic application content
- HTTP GET and POST method support
- Policies defined based upon HTTP header and body values

APPLICATION VISIBILITY

EdgeSight™ for NetScaler

- Real-time and historical end-user experience monitoring
- Trending and reporting for Web application performance service level management

COMPREHENSIVE APPLICATION SECURITY

DDoS Attack Defense

- Continue service to legitimate users while protecting against attacks such as: SYN Flood and Ping of Death
- ICMP and UDP rate control

Surge Protection and Priority Queuing

- Adaptive rate control for TCP connections and HTTP requests
- Prioritized transaction dispatch for critical application requests

Packet Filtering

- Layer 3 and 4 Access Control Lists (ACL)
- Network Address Translation (NAT)
- Positive security via denial of nonconfigured services

CITRIX NETSCALER APPLICATION FIREWALL

- Protects against application-layer attacks such as cross-site scripting, SQL injection, cookie poisoning and forceful browsing
- Prevents theft and leakage of sensitive corporate and customer information
- Positive security model protects against known and unknown attacks

NETWORK INTEGRATION

- Static routes
- OSPF, RIP, BGP
- VLAN 802.3Q
- Link Aggregation 802.3ad

SIMPLIFIED INSTALLATION AND MANAGEMENT

User Interface

- AppExpert Visual Policy Builder
- Secure Web-based GUI
- CLI, Telnet, SSH, Console
- Real-time performance dashboard
- Load-balancer configuration wizard

Third-party Management Support

- SNMPv1, SNMPv2 and SNMPv3: NetScaler MIB and MIB-II support
- XML/SOAP API for automated application-driven configuration

Real-time Consolidated Logging

- Offloads logging from application server to central location

Licensing (Optional Access Gateway SSL VPN)

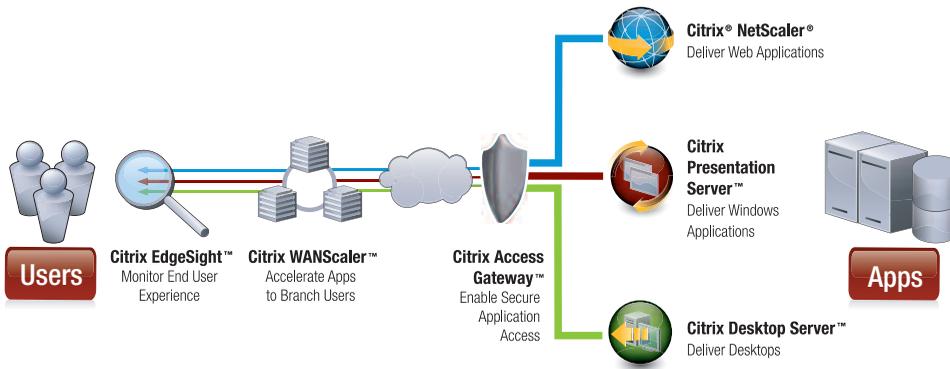
- Support for up to 10,000 concurrent users

PLATFORM SPECIFICATIONS

NETSCALER APPLICATION SWITCH	7000 PLATFORM	9010 PLATFORM	10010 PLATFORM	12000 PLATFORM
Chassis Dimensions:	1.8" (4.4cm) H (1U) x 17.3" (43.8cm) W x 18.8" (47.6cm) D	3.5" (8.9cm) H (2U) x 17" (42.4cm) W x 24" (61cm) D	3.5" (8.9cm) H (2U) x 17" (42.4cm) W x 24" (61cm) D	3.5" (8.8cm) H (2U) x 17" (42.4cm) W x 24" (61cm) D
Weight:	28 lbs (12.7 kg)	52 lbs (23.6 kg)	52 lbs (23.6 kg)	52 lbs (23.6 kg)
Power Supply	90-264VAC Full Range 47-63 Hz, 250W	90-264VAC Full Range 47-63 Hz, 500W	90-264VAC Full Range 47-63 Hz, 500W	90-264VAC Full Range 47-63 Hz, 500W
Interface Ports	6 x 10/100 BASE-T 2 x 10/100/1000 BASE-T	4 Ports in one of 2 configurations - 4 x 10/100/1000 BASE-T - 4 x 1Gbit Fiber SFP 1 x 10/100 BASE-T (Mgmt)	8 Ports in one of 2 configurations - 4 x 10/100/1000 BASE-T + 4 x 1Gbit Fiber SFP - 4 x 10/100/1000 BASE-T + 4 x 1Gbit Copper SFP 1 x 10/100 BASE-T (Mgmt)	8 Ports in one of 3 configurations - 8 x 1Gbit Fiber SFP - 8 x 1Gbit Copper SFP - 4 x 1Gbit Fiber SFP + 4 x 1Gbit Copper SFP 1 x 10/100 BASE-T (Mgmt)
Operating Ranges	Temperature and Humidity 0-50C; 5%-95%	Temperature and Humidity 0-50C; 5%-95%	Temperature and Humidity 0-50C; 5%-95%	Temperature and Humidity 0-50C; 5%-95%
Certifications	Emissions: FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Safety: TUV-C, US Compliance: RoHS	Emissions: FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Safety: TUV-C, US Compliance: RoHS	Emissions: FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Safety: TUV-C, US Compliance: RoHS	Emissions: FCC (Part 15 Class A), DoC, CE, VCCI, CNS, AN/NES Safety: TUV-C, US Compliance: RoHS
Warranty	1 year hardware; 90 days software; extended support plans available	1 year hardware; 90 days software; extended support plans available	1 year hardware; 90 days software; extended support plans available	1 year hardware; 90 days software; extended support plans available

Six Keys to Successful Application Delivery

Deliver Any Application to Any User with the Best Performance, Security, Cost and Agility



Citrix® NetScaler® for delivering Web-based applications — Optimize all web applications with an integrated networking solution that accelerates performance, improves security, and substantially reduces load on servers.

Citrix Presentation Server™ for delivering Windows-based Applications — Save millions in management costs and eliminate data security risks by installing all Windows applications in the datacenter and virtualizing or streaming them to end users over the network.

Citrix Desktop Server™ for delivering desktops — Reduce the cost, management and security risk of desktop computing by delivering Windows desktops virtually from the datacenter in a way that actually improves the end user experience.

Citrix Access Gateway™ for enabling secure application access — Provide a secure single point of access to all applications that automatically customizes access policies based on user scenarios.

Citrix WANScaler™ for accelerating applications to branch users — Instantly improve the performance of applications delivered over the wide area network while reducing bandwidth by up to 75%.

Citrix EdgeSight™ for monitoring end user experience — Ensure applications are meeting business metrics at all times by monitoring performance from the user's perspective.



About Citrix: Citrix Systems, Inc. (Nasdaq:CTXS) is the global leader and the most trusted name in application delivery infrastructure. More than 180,000 organizations worldwide rely on Citrix to deliver any application to users anywhere with the best performance, highest security and lowest cost. Citrix customers include 100% of the Fortune 100 companies and 98% of the Fortune Global 500, as well as hundreds of thousands of small businesses and prosumers. Citrix has approximately 6,200 channel and alliance partners in more than 100 countries. Annual revenue in 2006 was \$1.1 billion. Learn more at www.citrix.com.

©2007 Citrix Systems, Inc. All rights reserved. Citrix®, NetScaler®, Request Switching®, Citrix Access Gateway™, Citrix EdgeSight™, AppCompress™ and AppCache™ are trademarks or registered trademarks of Citrix Systems, Inc. and/or one or more of its subsidiaries, and may be registered in the U.S. Patent and Trademark Office and in other countries. All other trademarks and registered trademarks are the property of their respective owners.

Optimize your applications

Find out how Citrix NetScaler application delivery solutions can make your Web applications run up to 15 times faster, while enhancing application security and dramatically reducing operational expenses.

Visit us at
www.citrix.com/netscaler
or call
+1 (800) 638 7225 or
+1 (408) 678 1600
to learn more.

Citrix Worldwide

WORLDWIDE HEADQUARTERS

Citrix Systems, Inc.

851 West Cypress Creek Road
Fort Lauderdale, FL 33309 USA
Tel: +1 (800) 393 1888
Tel: +1 (954) 267 3000

EUROPEAN HEADQUARTERS

Citrix Systems International GmbH

Rheinweg 9
8200 Schaffhausen
Switzerland
Tel: +41 (52) 635 7700

ASIA PACIFIC HEADQUARTERS

Citrix Systems Hong Kong Ltd.

Suite 3201, 32nd Floor
One International Finance Centre
1 Harbour View Street
Central
Hong Kong
Tel: +852 2100 5000

CITRIX ONLINE DIVISION

5385 Hollister Avenue
Santa Barbara, CA 93111
Tel: +1 (805) 690 6400