



STAMPEDE WEB 2.0 PERFORMANCE SERIES™

ACCELERATION ON-DEMAND™

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NEW ENTERPRISE WEB APPLICATIONS

The emergence of new Web 2.0 applications bring the great promise of unprecedented productivity, functionality and end-user interaction. However, like all great advances in applications, there are pitfalls in terms of networks that were not designed in light of new application delivery requirements.

As application developers concentrate on delivering a rich user experience, the methodologies and technologies they employ tend to ignore the impact on the network that these applications will generate. The application developer is not concerned with the performance characteristics of the underlying network; nevertheless, it is a network of applications, and ultimately, it is the end users' experience that determines the usability and functionality of the application. Unfortunately, the same technologies that improve the development capability and end-user experience of Web 2.0 applications are also the cause for network-intrusive interaction that can bring enterprise application performance to its knees.

AS NEW ENTERPRISE WEB APPLICATIONS EMERGE, EXISTING APPLICATION PERFORMANCE ISSUES REMAIN, WHILE NEW APPLICATION DELIVERY CHALLENGES ARISE AS A RESULT OF THIS REVOLUTION IN APPLICATION DESIGN. ONLY A SOLUTION DESIGNED FOR THESE DYNAMIC NETWORK-INTRUSIVE APPLICATIONS CAN EFFECTIVELY ACCELERATE THE DELIVERY OF THESE NEW ASYNCHRONOUS APPLICATIONS.

SOA – AJAX – XML

New technologies, new methodologies and new buzz words. They all leave networks gasping for throughput and headroom, and traditionally the more you get, the more you need to mitigate the performance impacts of Service Oriented Architectures (SOA), Extensible Markup Language (XML) and Asynchronous Java and XML (AJAX).

While the client or user-centric nature of these new applications is impressive, their polling paradigm of initiating requests for services or data flood the network with "chatter." Requests are constantly opening and closing TCP connections, burdening and often overwhelming the underlying application delivery network and the servers that manage those connections. Data, the lifeblood of all enterprises, increases dramatically with New Enterprise Web Applications. XML is used extensively to communicate from clients to servers, and back to clients. The use of XML, while significantly expanding the capabilities of the enterprise, now begins to overload the network and increase the burden on Web and Application servers.

Compression, schema validation, routing of requests based upon content and security issues abound. And the growing use of Secure Socket

Layer (SSL) for exchanging information adds a new twist. How do you manage and accelerate these environments? Especially when your enterprise cannot control what's on the other end of the transaction. Enterprise applications are no longer confined to the enterprise; increased use of the Internet for mobile users, and Extranets for suppliers, partners and customers require solutions that are not intrusive.

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All of these issues can be addressed with an acceleration solution that consolidates Application Delivery, WAN Optimization and Application Front-end functionality into a single comprehensive offering for the enterprise.

The Stampede Web 2.0 Performance Series is the only comprehensive suite of acceleration technologies for the new generation of Web 2.0, AJAX and XML based applications. Stampede's visionary two-sided approach with Acceleration On-Demand™ maximizes performance, improves productivity and reduces or eliminates costs.

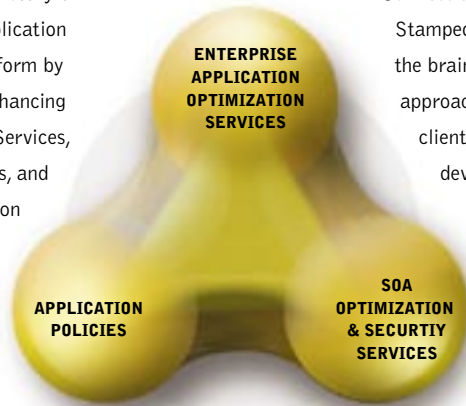
BUILDING ON A SOLID BASE

The Stampede Web 2.0 Performance Series builds on the success and history of our leading Stampede Application Acceleration Series™ platform by integrating performance-enhancing Application Optimization Services, streamlined Client Services, and Stampede's latest innovation -- Acceleration On-Demand.

ENTERPRISE APPLICATION OPTIMIZATION SERVICES

The heart of all Stampede solutions is our Enterprise Application Optimization Services that reside on an appliance in your data center. These shared services work closely with Stampede's unique Client Services to optimize the flow of information throughout the enterprise. In addition, these services are designed to offload, optimize and protect enterprise Application Servers through:

- **APPLICATION FIREWALLING**
Protects your enterprise and applications from attacks caused by unauthorized transactions
- **LOAD BALANCING**
Intelligently distributes the transaction workload across multiple Web Application servers
- **CONNECTION MANAGEMENT**
Removes the burden of establishing and terminating TCP connections from the Web Servers
- **SSL OFFLOADING**
Eliminates the overhead of SSL key and encryption processing from Web Servers
- **GZIP COMPRESSION**
When used as a single-sided solution, automatically compresses data sent to standard browsers



CLIENT SERVICES

If the Enterprise Application Optimization Services are the heart of the system, Stampede's Client Services are the brains. The unique two-sided approach to acceleration utilizes client technology at the end-user device to provide the ultimate in bi-directional acceleration. Stampede's latest innovation, Acceleration On-Demand now enables this bi-directional acceleration without the need to

install software at the end-user device. With this technology, the Stampede Web 2.0 Performance Series automatically injects the necessary acceleration technology into a Web page the first time that page is accessed by the user. From that point forward, all interaction with the application will benefit from:

BI-DIRECTIONAL COMPRESSION of all data transferred, including cookies and header information, significantly reducing the amount of data transmitted

CACHE DIFFERENCING, which maintains a coherent copy of the browser's cache on both the client and the appliance, transmitting only the changes across the network; a must for highly interactive Portal environments

SSL CLIENT-SIDE TERMINATION accelerates even SSL data. All other acceleration solutions see the data after it has already been encrypted. Stampede's patent-pending technology can intercept the SSL data at the client, apply our acceleration technology to that data, and then securely accelerate it across the network

TURBOSTREAMING™ – or data multiplexing – technology for accelerating large encrypted or compressed objects. Stampede makes your network work like a multi-lane highway, not just a country road for transmitting this information up to 5 times faster than other technologies

CLIENT SERVICES
(AJAX/HTTP/HTTPS/WINSOCK)



RICH INTERNET APPLICATIONS

STAMPEDE ACCELERATION ON-DEMAND™ CLIENT



STANDARD WEB APPLICATIONS

STAMPEDE LAYER 7 CLIENT



LEGACY APPLICATIONS

STAMPEDE LAYER 5 CLIENT

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SOA OPTIMIZATION AND SECURITY SERVICES

The Stamped Web 2.0 Performance Series doesn't stop with general-purpose acceleration. The network-intrusive demands of New Enterprise Web Applications are met as well. A key component of these applications, when implemented with AJAX methodologies, is XML. The Stamped Web 2.0 Performance Series accelerates XML data and processing through:

XML DOCUMENT DIFFERENCING, which only sends the actual changes in the XML document. This dramatically reduces the amount of data transmitted, significantly improving bandwidth utilization and performance.

XML SCHEMA VALIDATION AND CONTENT BASED ROUTING as either a hardware or software-based option. This service dramatically improves the performance of the XML validation, from 2 to 100 times, and easily routes the XML request based upon the information in the request.

THREAT MANAGEMENT

The transaction-intensive demands of Web Services, AJAX, and other XML messaging standards require bullet-proof security from a variety of threats. XML applications are vulnerable to maliciously corrupted data, denial of service, and intrusions. Without hardened security, these attacks can lead to profound disruption of data center operations. Protecting the network from such XML-borne exploits is now a matter of business-critical urgency.

Yesterday's generation of network security devices and appliances are built to scan packets for viruses and other threats, but cannot deal with the application and semantic level threats possible with XML traffic. They do not deliver the full-spectrum security the XML-enabled, application-aware network requires, which includes the ability to scan for semantic attacks at network speeds.

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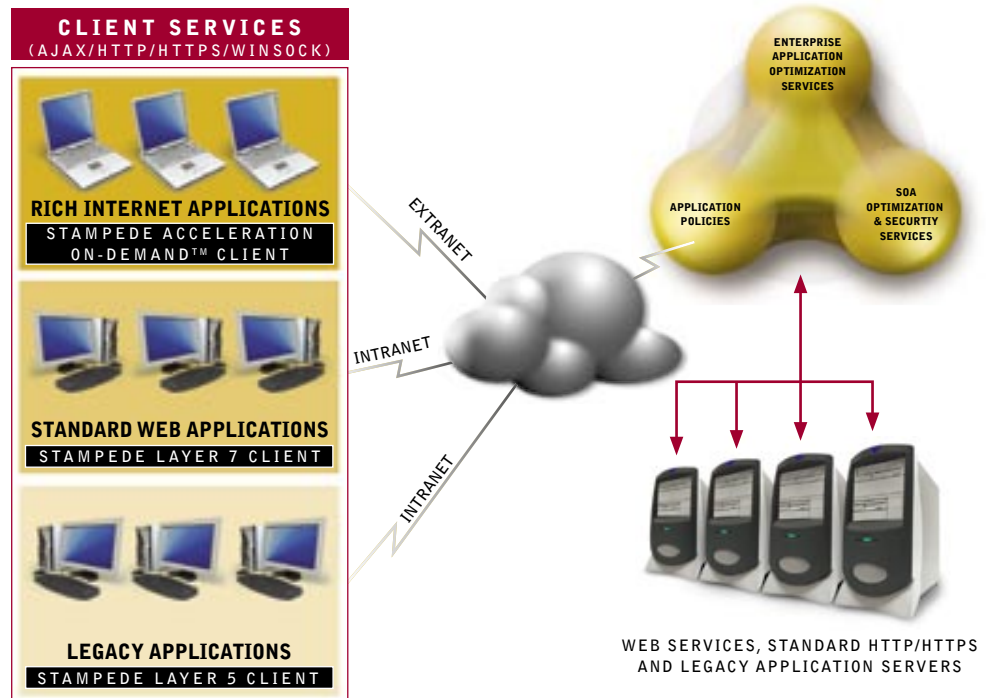
Stampede's AJAX-aware client technology transparently "injects" itself into the Web page the first time a user accesses that page. The necessary client software is then downloaded to the end-user device, enabling all of Stampede's client based bi-directional acceleration.

Application developers concentrate on application logic, and now do not need to be concerned about the network or other performance issues.

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Designed for flexibility, affordability and maximum performance. Choose from various options for the appliance that best meet your enterprise requirements.

Multiple appliances provide high availability and enhanced application load balancing. In addition, configure the appliance with either the hardware or software XML option for maximum capacity.



FOR MORE INFORMATION,
Call 1.800.763.3423, USA & Canada
1.937.291.5035, International
or visit www.stampede.com

