

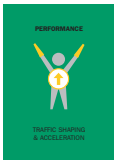
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AppXcel – Advanced Application Accelerator

Fast Web-Applications. Efficient Servers. Secure Transactions

Web-enabled business applications offer the promise of anywhere-access, reduced operational costs and greater manageability – provided that security risks, response-time bottlenecks and server performance issues can be dealt with. AppXcel reduces transaction speeds and bandwidth consumption, and increases server capacity by incorporating an advanced set of TCP and HTTP optimization, compression and caching techniques. It's the only solution that addresses information security and privacy by offloading high-throughput SSL encryption from servers, and inspecting encrypted traffic so that network security devices aren't blinded. The result? Server and WAN optimization for delivering fast and secure applications and transactions.



Accelerate Web & Wireless Transactions

Business applications were designed to run fast over the LAN, but trying to extend their reach to users over the WAN exposes the sluggishness of chatty protocols traversing ever growing distances, introducing delays that cannot be addressed by simply adding more bandwidth. AppXcel minimizes the amount of communications by optimizing TCP, Wireless-TCP and HTTP session behavior, thereby accelerating application performance by up to 500%.

Reduce Bandwidth Costs

Web-based content is rich in large image and document files that consume expensive bandwidth and contribute to slow response times if WAN pipes are narrow. AppXcel compresses all popular text-based files and images, achieving up to 500% savings in bandwidth consumption. No client-side hardware or software is required.

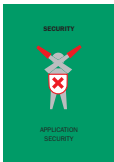
AppXcel feature	IT benefits	The APSSolute advantage	Business benefits
TCP optimization	<ul style="list-style-type: none"> Eliminate web-application latencies across the WAN, boosting application response times by up to 500%. Reduce bandwidth consumption by chatty protocols. Reduce load from servers. 	<ul style="list-style-type: none"> TCP multiplexing Implements TCP RFCs: <ul style="list-style-type: none"> 1323 (Performance Extensions) 2018, 2883 (Selective ACK) 2414, 3390 (WTCP) 2581, 2582 (Congestion Avoidance) 2861 (Congestion window validation) RFC 3042 (Limited Transmit) As well as: Forward ACK (FACK), Configurable MTU and TCP reorder Supports wireless & hand-held clients RFC 2616 (HTTP 1.1) compliant 	<ul style="list-style-type: none"> Enables “anywhere access” of web-enabled applications. Reduce operational efforts and support IT consolidation efforts. Increase employee productivity and satisfaction with IT.
HTTP multiplexing			
Caching			
One-sided compression	<ul style="list-style-type: none"> Reduces WAN bandwidth consumption by up to 500%. Accelerates web-pages on narrow WAN connections. 	<ul style="list-style-type: none"> No client-side software or hardware required. Automatically detects and employs client-browser compression support for: .XML, .HTML, JavaScript, .XLS, PPT, .DOC, .PDF, etc. Compresses images by up to 1000%. HW Compression card (optional). 	



Let Your Servers Do More

SSL encryption is used ubiquitously for Web-based transactions to protect the privacy of sensitive information. Servers are very inefficient in processing encrypted transactions, resulting in up to 40% reduction in capacity. AppXcel removes this load by handling all the associated encryption, decryption, session and certificate management tasks. Combined with TCP and HTTP optimization, and static content caching, server loads can be cut in half, reducing operational costs and the amount of servers needed to support applications.

AppXcel feature	IT benefits	The APSolute advantage	Business benefits
SSL offloading	<ul style="list-style-type: none"> Consolidate or reduce server utilization and operation costs by up to 40%. Ensure continuous SSL service availability and transaction completion. 	<ul style="list-style-type: none"> Up to 16,000 trans/sec and 150,000 concurrent conn. Clustering for redundancy and scalable performance up to 35,000 TPS. Supported Algorithms: DES, 3DES, DH, DSS, MD5, RC2, RC4, RSA, SHA-1 Supported Protocols: SSLv2, SSLv3, TLS, FTPS, SMTPS, POP3S, IMAPS, LDAPS, SIP/TLS. Encryption strength: up to 168 bit. Key length: 512-20468 bits. Supports all commercial web servers Supports Backend encryption 	<ul style="list-style-type: none"> Reduce IT costs: <ul style="list-style-type: none"> Less servers in the datacenter, doing more. Less complexity in managing information security and SSL. Increase productivity with accelerated business applications.
Centralized multi-device application & SSL management	<ul style="list-style-type: none"> Centralized, tamper-resistant key protection and management: reduce complexity and costs of managing SSL server infrastructure. Network-wide, application-aware policy set-up, health, performance and utilization monitoring and reporting. Integration into existing NMS. Prevent lengthy and manual maintenance and troubleshooting. Reduce FIPS deployment costs by up to 25%. Monitor SSL performance. 	<ul style="list-style-type: none"> APSolute Insite – network-wide GUI-based configuration, monitoring and management console. SNMP v1, v2, v3 Also supports: <ul style="list-style-type: none"> Secure, in-band Web-based management and CLI (Telnet or SSH) Out-of-band RS-232 CLI Supports reporting via SNMP traps, syslog and email messages. HP OpenView plug-in. Multi-device policy propagation FIPS 140-2 Level 3 certified Manage up to 1000 Client certificates: <ul style="list-style-type: none"> Via CRL, CDP, OCSP Info relay to backend server over non-SSL protocol 	



Take The Blinds Off Security

SSL is a double-edged sword. While protecting legitimate traffic from prying eyes, SSL incryption can also prevent malicious content from being scrutinized and blocked by your network security devices. AppXcel peels off the encryption from in-bound and out-bound SSL traffic, providing a clear-text copy to your network security devices so they can detect hacking or information leaking and stop them in their tracks in real-time.

AppXcel feature	IT benefits	The APSolute advantage	Business benefits
Server/Client-side SSL Security	<ul style="list-style-type: none"> Expands capabilities of all network security devices to scan SSL encrypted traffic. Protects against: <ul style="list-style-type: none"> SSL-encrypted hacking SSL-encrypted information-leaks 	<ul style="list-style-type: none"> Can be integrated with Radware AppDirector, SecureFlow or DefensePro to provide Server- and Client-side security. Server-side SSL security enables any IDS, IPS or Anti-virus gateway to scrutinize SSL traffic directed at the data-center. Client-side SSL security enables any content inspection device to scrutinize employee-originated sessions, e.g. while web-browsing. 	<ul style="list-style-type: none"> Increases employee satisfaction and effectiveness without compromising security.

Technical Specifications

Features	AppXcel 300	AppXcel 1000	AppXcel 2000	AppXcel 4000	AppXcel 8000	AppXcel 16000
Transactions/second	300	1,000	2,000	4,000	8,000	16,000
Concurrent connections	1,500	3,000	10,000	20,000	50,000	150,000
Memory	256 MB			512MB – 3 GB		
Network Interfaces	<ul style="list-style-type: none"> 2x 10/100BaseTX ports RS-232C connector 			<ul style="list-style-type: none"> One of the three options: <ul style="list-style-type: none"> 2x 10/100BaseTX ports 1x 10/100BaseTX & 1x 10/100/1000BaseTX port 1x 10/100BaseTX & 1x 1000BaseSX port RS-232C connector 		
Operating Environment	<ul style="list-style-type: none"> Temperature: 0 to 40°C Relative Humidity: 5% to 95% non-condensing 			<ul style="list-style-type: none"> Temperature: 0 to 40°C Relative Humidity: 5% to 95% non-condensing 		
Weight & Dimensions:	<ul style="list-style-type: none"> W 430.0mm x D 504.7mm x H 43.7mm Weight: 7.25kg Standard 19 inch EIA rack or standalone 			<ul style="list-style-type: none"> W 430.0mm x D 504.7mm x H 43.7mm Weight: 7.25kg Standard 19 inch EIA rack or standalone 		
Power	Auto-range supply: 100-250V 50-60Hz			Auto-range supply: 100-250V 50-60Hz		

Radware's APSolute Product Family

Over 3,000 enterprises and carriers worldwide use Radware application-smart switches to drive business productivity and improve profitability by adding critical application intelligence to their IP infrastructure, making networks more responsive to specific business processes. Radware's APSolute product family provides the most complete set of application front-end, remote access and security capabilities for application-smart networking to ensure faster, more reliable and secure business transactions.

Certainty Support

Radware offers technical support for all of its products through the Certainty Support Program. Each level of the Certainty Support Program consists of four elements - phone support, software updates, hardware maintenance, and on-site support.

To learn more about how Radware application delivery solutions can enable you to get the most of your investments in IT infrastructure and people email us at info@radware.com, or go to www.radware.com



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