Service-Oriented Architectures (SOA) and XML Web services allow enterprises to dynamically integrate their business processes and IT systems using open, standards-based specifications. Radware’s AppXML™ provides the foundational infrastructure enabling secure, high-performance XML and Web services communications for mission-critical applications.

Radware AppXML is a comprehensive Web services Security Gateway that functions as a trusted intermediary for exchanging secure Web Services between an enterprise and its business partners. It enables enterprises to achieve a higher ROI through secure e-business process integration.

The AppXML appliance combines hardware and software to improve the speed of XML document processing and secure XML-based communications. While XML provides a structured way to add context to data for sharing among applications, it is very data intensive and can take 30 to 50 times more bandwidth than other protocols. AppXML delivers performance gains by offloading tasks to dedicated hardware, off-loading servers, and is further enhanced by integrating AppXcel for acceleration of XML processing.

Web services security is enhanced as AppXML provides business-level protection from both non-deliberate and malicious attacks. Web services traffic is examined for attacks and malicious activity without altering or rewriting applications, quickly delivering complete and accurate application security without modifying Web services.

AppXML provides all of the administration and reporting capabilities needed to manage a web services security gateway deployment; including policy management, status monitoring, alerting, logging, and reporting activity.

Radware’s integrated approach enhances Web services and SOA deployments by:

- Securing Web services and network from external and internal threats by validating XML structure, filtering malicious content, cloaking, and WSDL virtualization
- Providing authentication, authorization, and auditing for Web services
- Ensuring Web service message integrity and privacy through schema validation, SSL decryption, message encryption, and signing
- Delivering further Security of Web services from Denial-of-Service attacks and scalability to accommodate growing capacity requirements
- Ensuring business continuity and Web services global availability with global redirection capabilities
- Enabling faster integration with Web services with protocol-mixing of XML and non-XML traffic, interoperability, XML processing and transformation
- Speeding implementation with minimal disruption to application services through strong WSDL policy management, a proxy-based approach, interoperability and redundancy support
Integrated Solution Protects, Accelerates and Streamlines Web Services Deployments

AppXML couples Radware’s APSolute application delivery platform with industry-leading software to improve the performance of XML message processing while greatly enhancing the security of Web services and SOA deployments.

Combining AppXML with AppDirector and AppXcel provides a comprehensive set of security, acceleration, and optimization services to ensure the fast, reliable, and secure delivery of mission-critical web-enabled services to ensure secure and continuous on-line business activity. AppDirector’s extensive health monitoring capabilities enables real-time identification of a faulty service, and will automatically bypass it and switch the traffic to a fully functional device. AppXcel provides the additional acceleration and performance enhancements desired by Global 2000 firms.

Radware solutions for global, enterprise SOA environments deliver on critical business criteria: application availability, performance, manageability and security. The integrated Radware solution performs essential application delivery functions including global traffic management, traffic re-direction, health monitoring, SSL offloading, TCP optimization, caching, compression, and application security. Through an integrated behavioral DoS module, Radware ensures 100 percent transaction processing and delivery – without performance degradation.
AppXML Web Services Gateway
AppXML industry specific solutions include: government compliance, secure electronic forms, secure partner integration, secure partner collaboration, electronic notary, evidence repository, as well as secure service oriented architectures (SOA).

• Critical Web Services Security
Business-level protection from both non-deliberate and malicious attacks. Web services traffic is examined for attacks and malicious activity without altering or rewriting applications. Get complete and accurate application security without modifying Web services.

• Enhanced Performance
Performance gains are achieved by offloading tasks to dedicated hardware, off-loading servers, and further enhanced by integrating AppXcel for acceleration of XML processing.

• Comprehensive Management Capabilities with Regulatory Compliance Reporting
AppXML provides all of the administration and reporting capabilities needed to manage a web services security gateway deployment; including policy management, status monitoring, alerting, logging, and reporting activity. AppXML’s rich graphical reporting capabilities meets security, compliance (HIPAA, SOX) and content delivery concerns.

• Seamless Deployment and Integration without Changing Existing Network
AppXML can be transparently activated to expand the functionality of Radware’s APSolute application delivery solution without making any network architecture, router or server changes. Radware’s approach delivers an integration solution for external traffic with internal infrastructure using protocol conversions, transformations and smart routing.

• High Availability with Real-Time Failure Bypassing
AppDirector’s extensive real-time health monitoring capabilities enables real-time identification of a faulty AppXML service, automatically bypassing it and switching the traffic to a fully functional AppXML in the farm.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
</table>
| Ensures Interoperability and Security | • Validates XML structure and schema  
• Filters malicious content  
• Hides web services  
• Supports large attachments  
• Ensures interoperability |
| Enhances Security and Manageability | • Authenticates fine-grained WSDL/SOAP/XML  
• Performs access control on business API’s  
• Provides Identity and entitlement administration  
• Supports identity management integration (add-on feature) |
| Improves Performance and Security | • Provides high-performance XML processing and element-level encryption  
• Supports electronic (digital) signatures  
• Certified for DoD PKI  
• Supports WS-Security 2004 |
| Provides Acceleration and Increased Performance | • Delivers content-based routing  
• Supports protocol-mixing with message queue |
| Streamlines Web Services Deployments | • Transforms synchronous web services to an asynchronous process for batch-processing  
• Performs content-based redirection  
• Offloads XML processing from servers  
• Accelerates SSL transport for web services |
| Protects Users from Web Services Security Risks | • Authenticaes, authorizes and audits clients  
• Validates XML messages for conformance and potential XML vulnerabilities  
• Encrypts, decrypts and digitally signs and validates signatures of XML messages  
• Removes sensitive data from XML messages  
• Delivers content-sensitive logging to meet granular compliancy needs |
Radware APSolute™ Product Suite
Radware, the global leader in integrated application delivery solutions, assures the complete availability, performance and security of business-critical applications for more than 5,000 enterprises and carriers worldwide. With Radware’s comprehensive APSolute suite of application front end, access, and security products, companies can drive business productivity, improve profitability, and reduce IT operating and infrastructure costs by making their networks “business-smart.”

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. Radware also has dedicated engineering staff that can assist customers on a professional services basis for advanced project deployments.

Learn More
To learn more about how Radware’s integrated application delivery solutions can enable you to get the most of your business and IT investments, email us at info@radware.com or go to www.radware.com.

© 2007 Radware, Ltd. All Rights Reserved. Radware and all other Radware product and service names are registered trademarks of Radware in the U.S. and other countries. All other trademarks and names are the property of their respective owners.